

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 30-015-38432	² Pool Code 96757	³ Pool Name Cotton Draw	DELAWARE; BRUSHY CANYON
⁴ Property Code 300635	⁵ Property Name COTTON DRAW UNIT		⁶ Well Number 160 H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3463.1

¹⁰ Surface Location

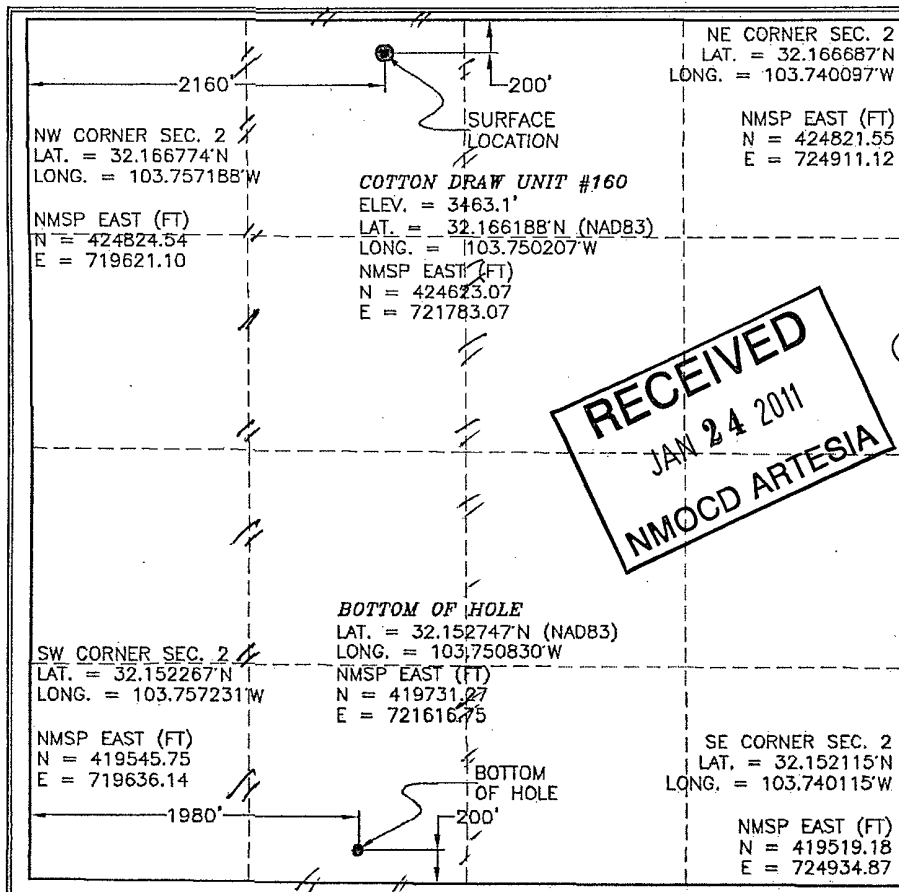
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	2	25 S	31 E	3	200	NORTH	2160	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	2	25 S	31 E		200	SOUTH	1980	WEST	EDDY

¹² Dedicated Acres 160 159.88	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.

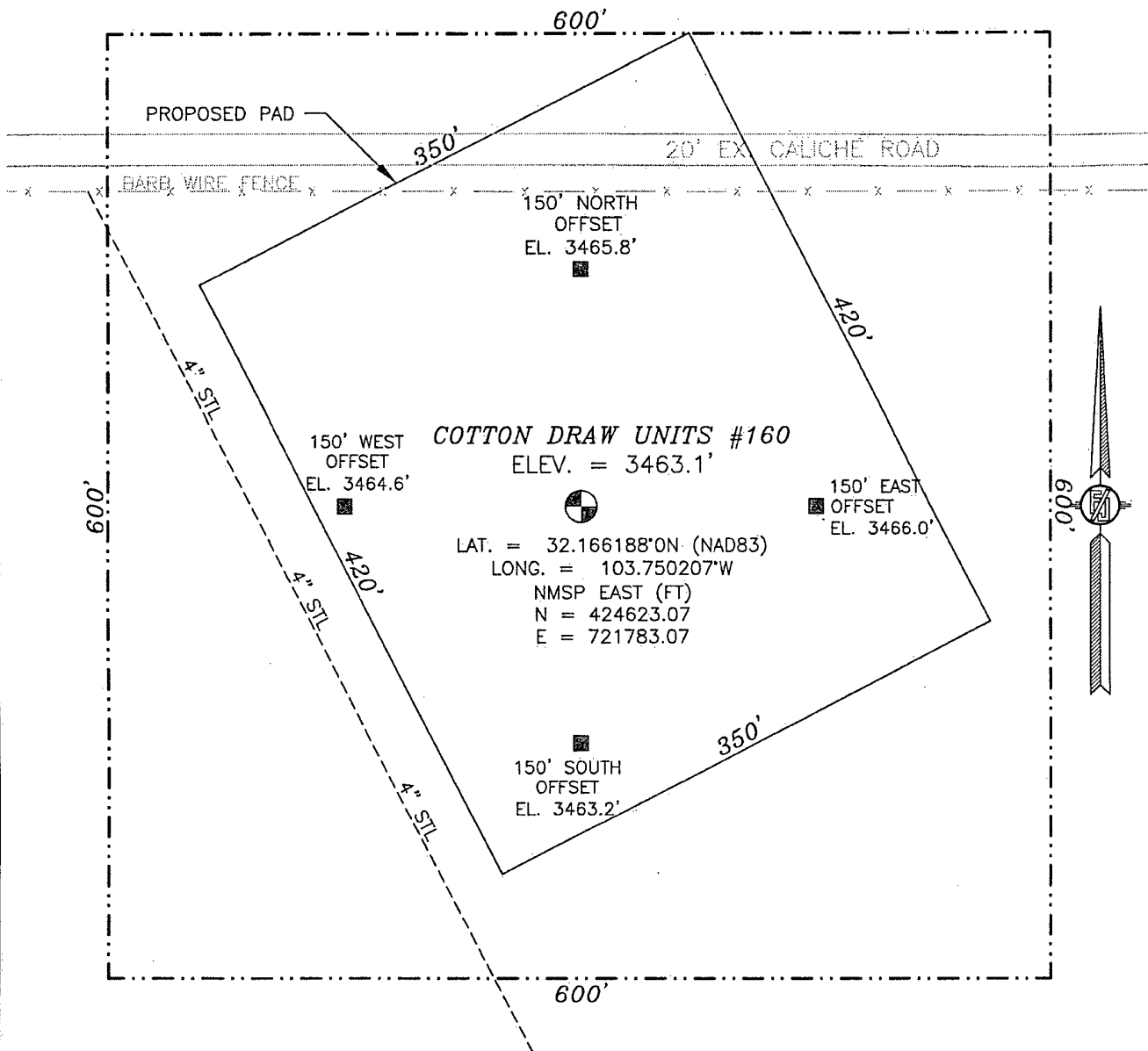
Signature: *Judy A. Barnett* Date: 1/21/11
Printed Name: Judy A. Barnett
Regulatory Specialist

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

Date of Survey: *NOV 24 2010*
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: *FLUIMONT PARMILLO, PLS 12797*
SURVEY NO. 332

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 1,400' AND LOCATION IS ON THE LEFT (SOUTH) 230'.

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #160

LOCATED 200 FT. FROM THE NORTH LINE
AND 2,160 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

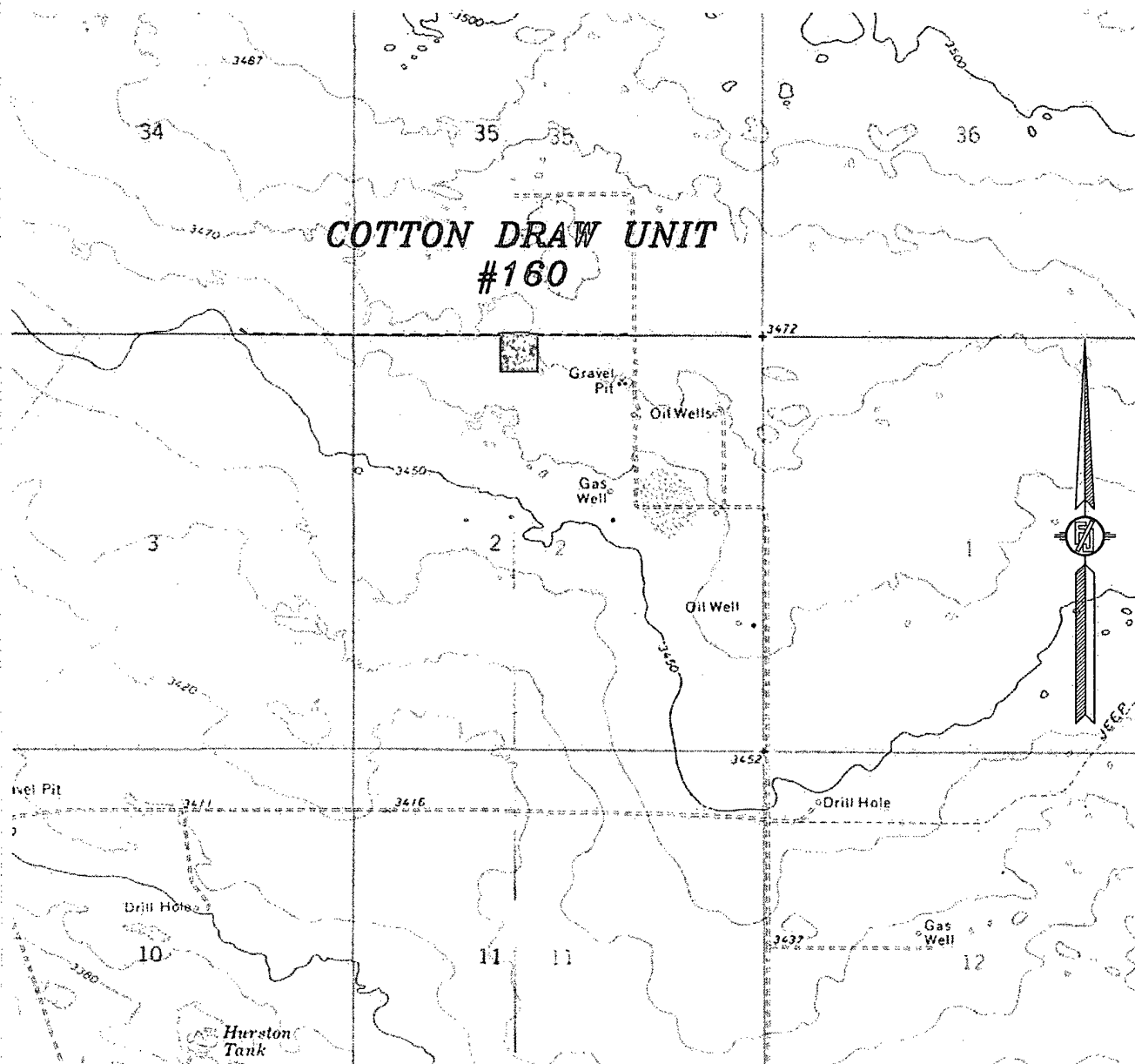
NOVEMBER 24, 2010

SURVEY NO. 332

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 687-5930 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
PADUCA BREAKS NW,
BIG SINKS

DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT #160

LOCATED 200 FT. FROM THE NORTH LINE
AND 2,160 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

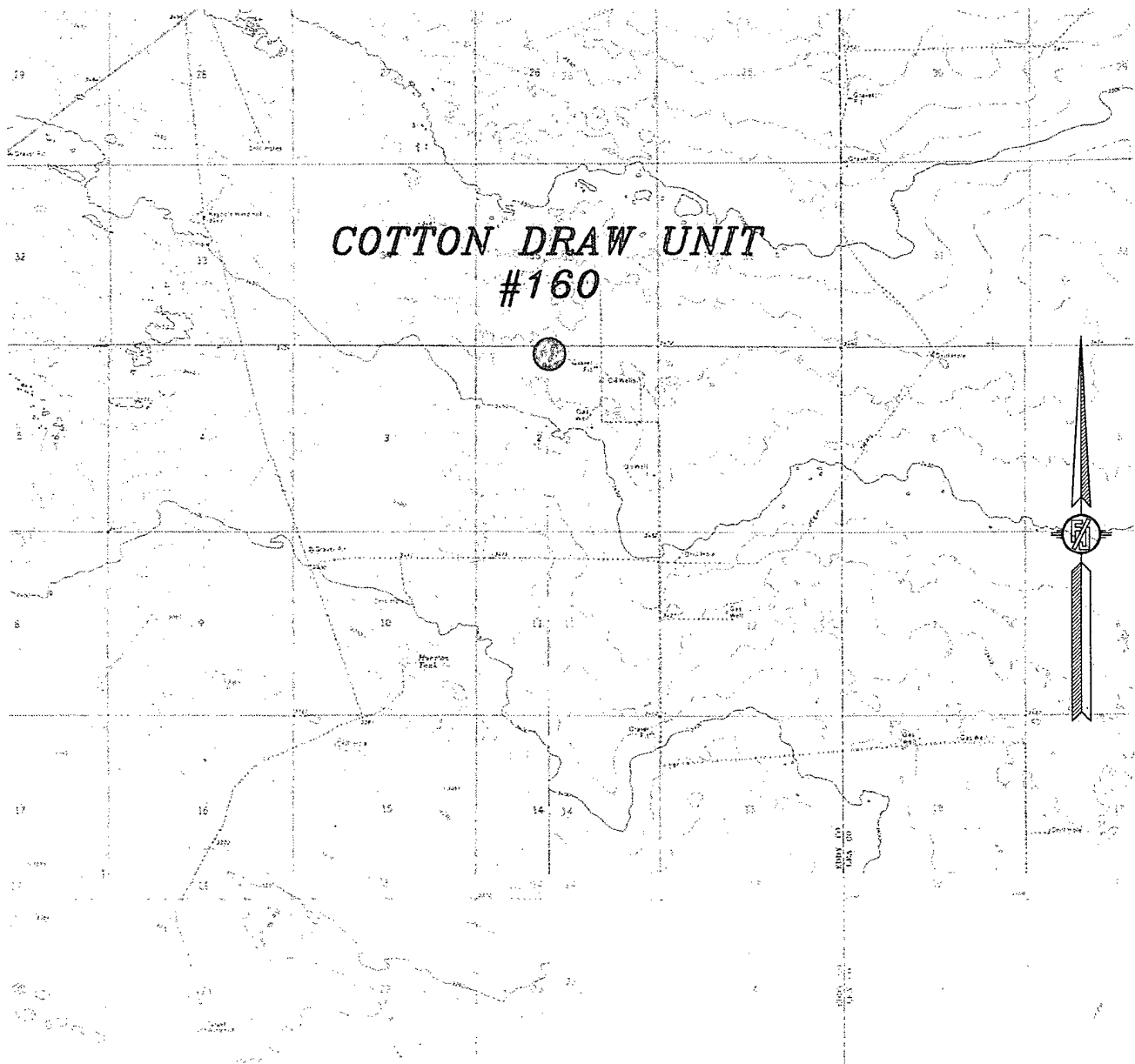
NOT TO SCALE

NOVEMBER 24, 2010

SURVEY NO. 332

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.
COTTON DRAW UNIT #160
LOCATED 200 FT. FROM THE NORTH LINE
AND 2,160 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOT TO SCALE

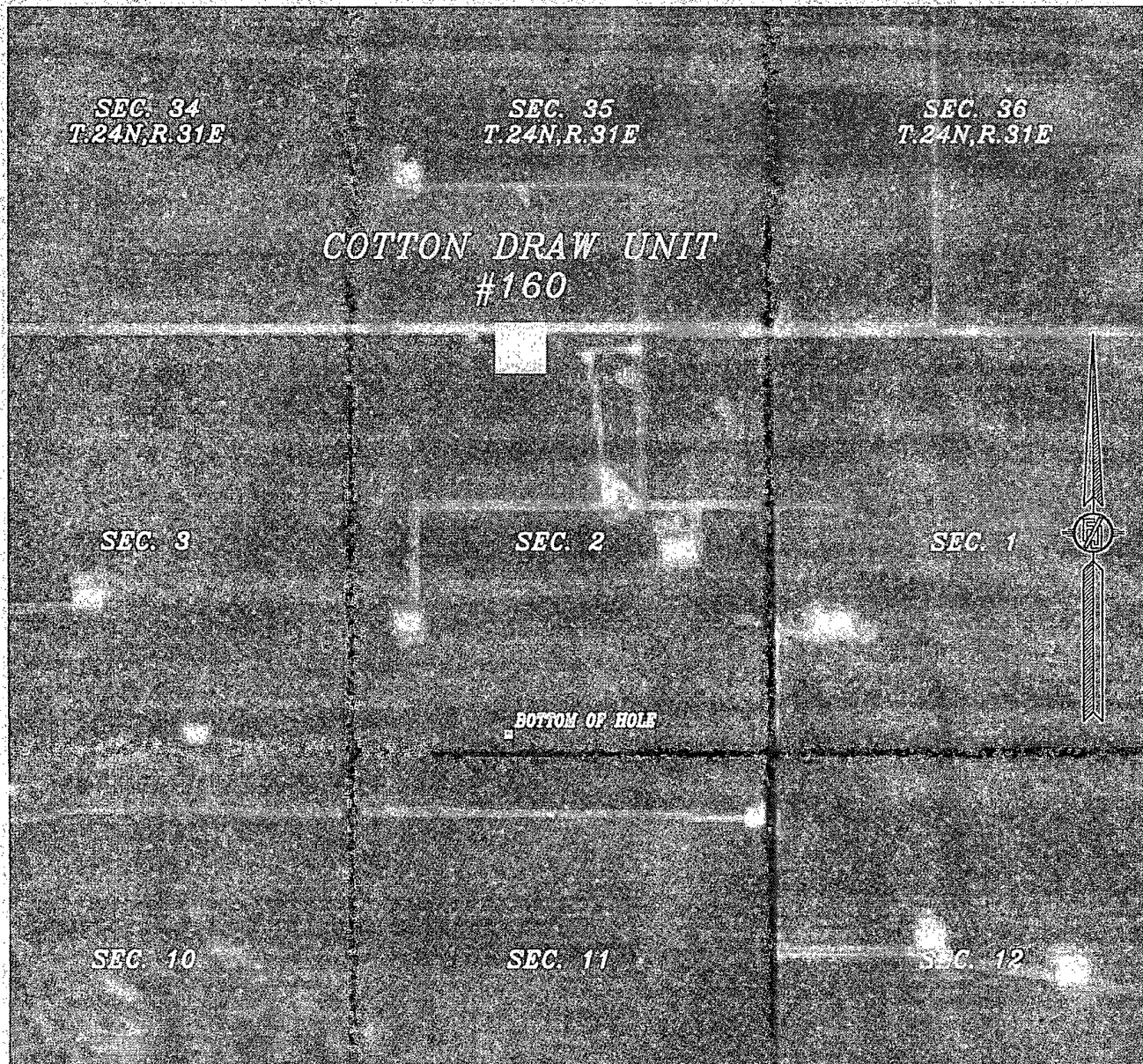
NOVEMBER 24, 2010

SURVEY NO. 332

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 #160

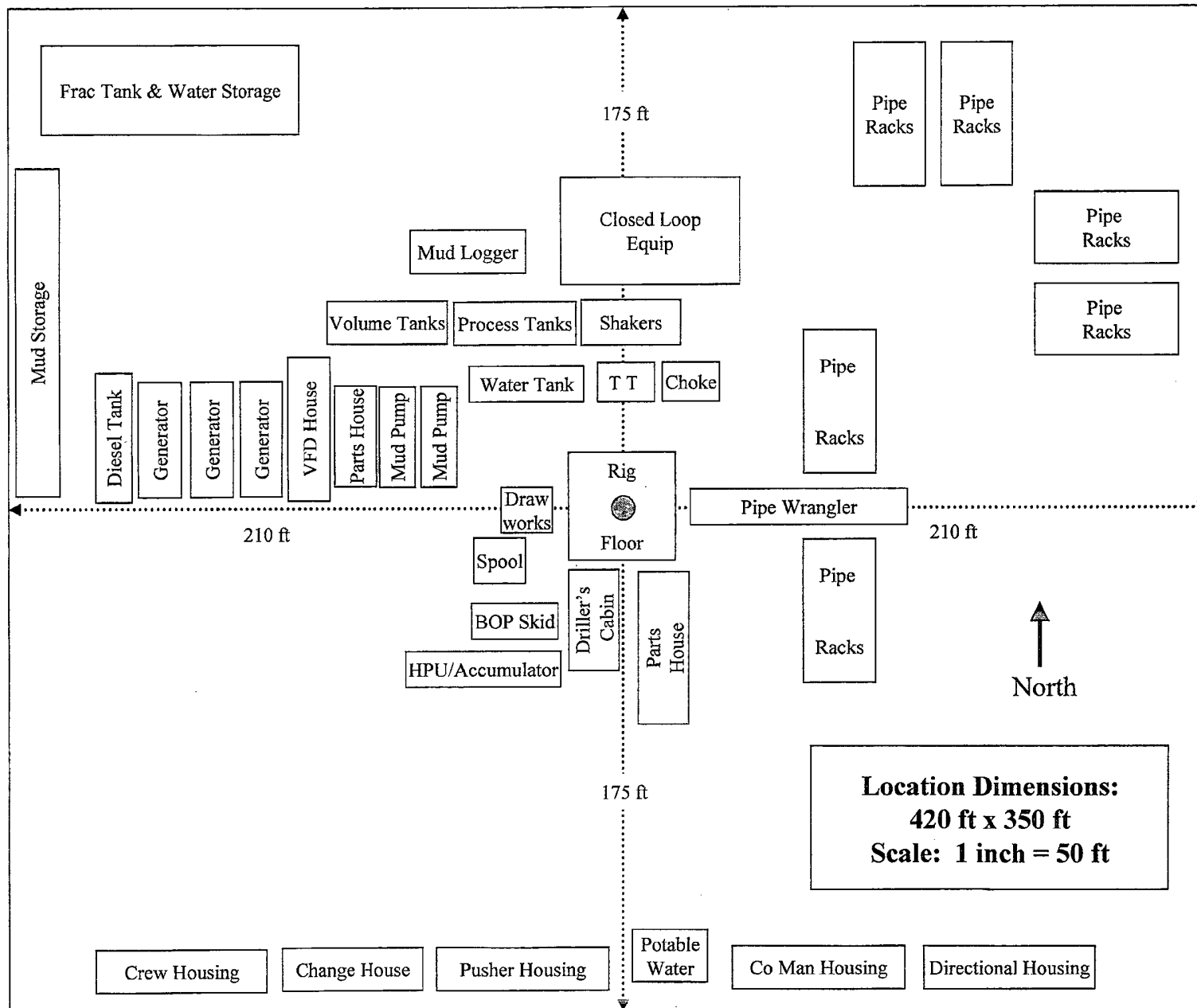
LOCATED 200 FT. FROM THE NORTH LINE
AND 2,160 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2010

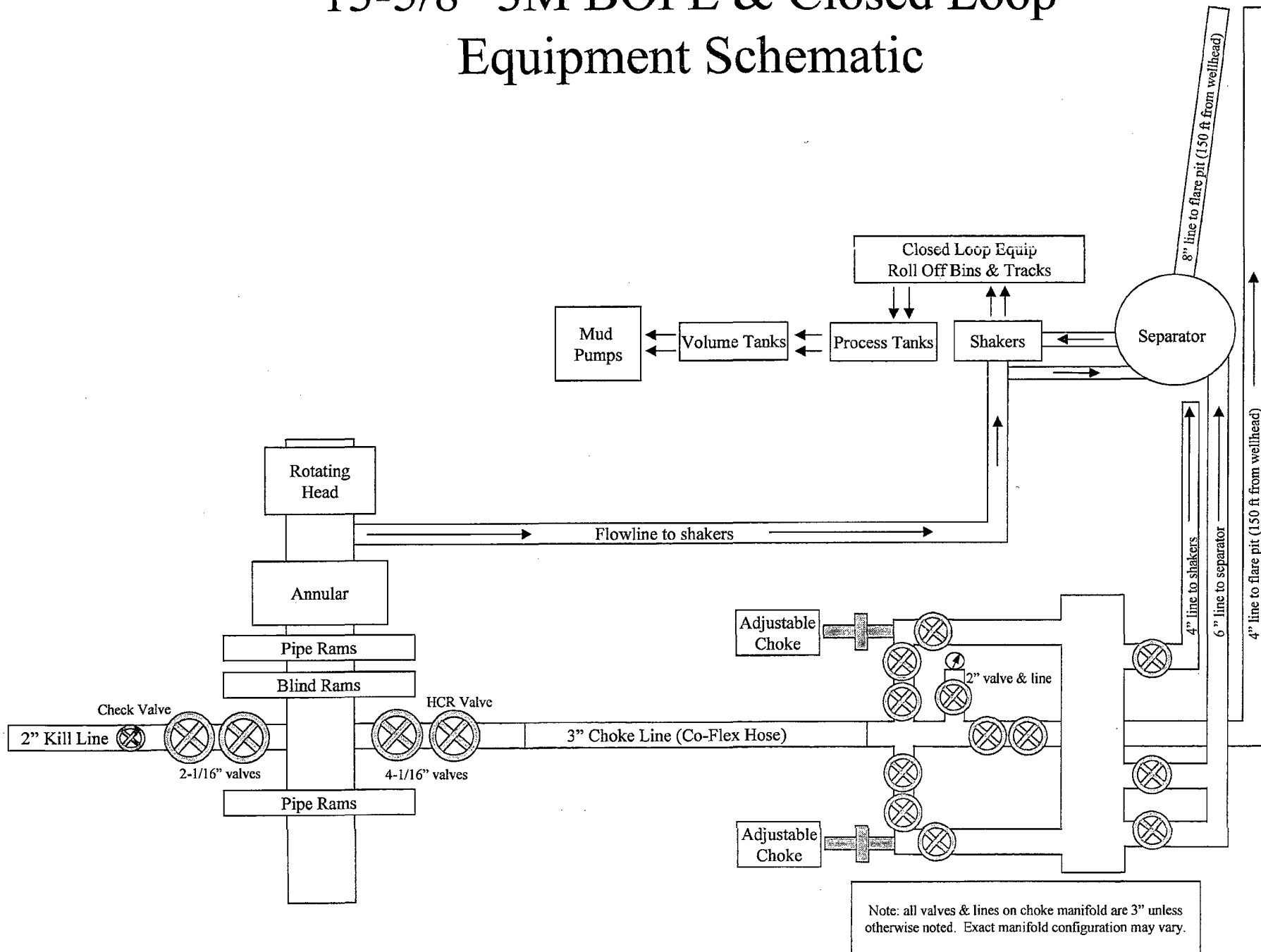
SURVEY NO. 332

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





Weatherford®

Drilling Services

RECEIVED

JAN 24 2011

NMOCD ARTESIA

Proposal



devon

COTTON DRAW UNIT #160H

EDDY COUNTY, NM

WELL FILE: PLAN 1

JANUARY 18, 2011

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

devon

Cotton Draw #160H
Eddy Co., New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	181.95	0.00	0.00	0.00	0.00	0.00	0.00	
2	7657.05	0.00	181.95	7657.05	0.00	0.00	0.00	181.95	0.00	
3	8554.40	89.74	181.95	8230.00	-569.98	-19.38	10.00	181.95	570.31	
4	12878.77	89.74	181.95	8250.00	-4891.80	-166.32	0.00	0.00	4894.63	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#160H	0.00	0.00	424623.07	721783.07	32°09'S 7.674N	103°45'00.663W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8250.00	-4891.80	-166.32	419731.27	721616.75	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 #160H

Site Centre Northing: 424623.07
Easting: 721783.07

Ground Level: 3463.00
Positional Uncertainty: 0.00
Convergence: 0.31



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

Magnetic Field
Strength: 48554nT
Dip Angle: 60.09°
Date: 10/15/2011
Model: IGRF2010

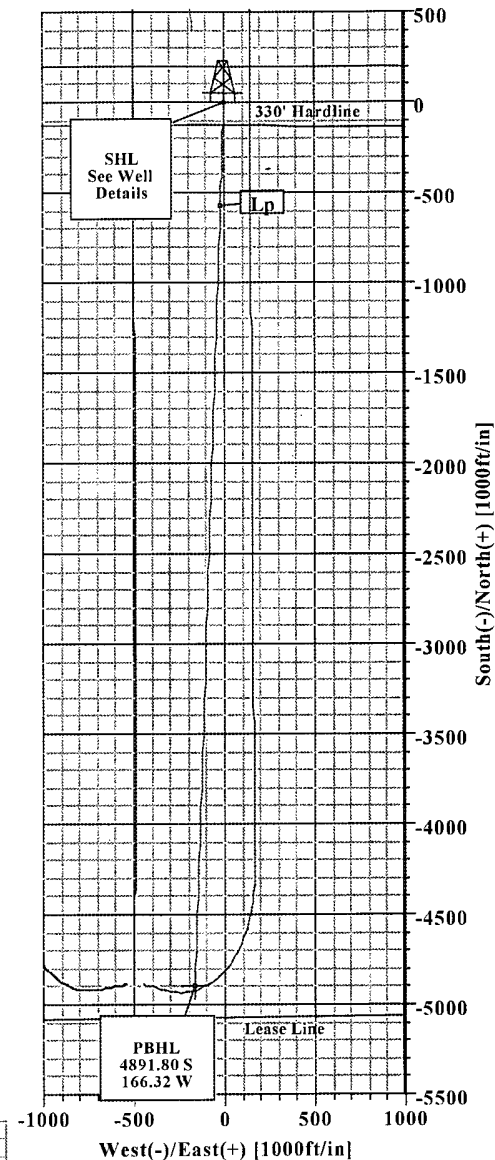
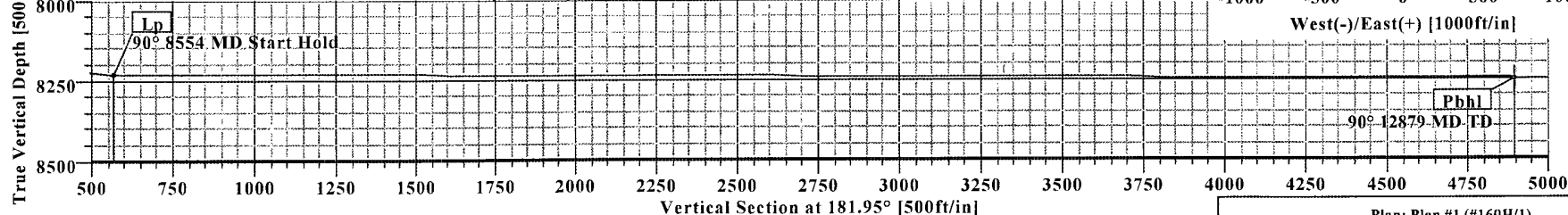
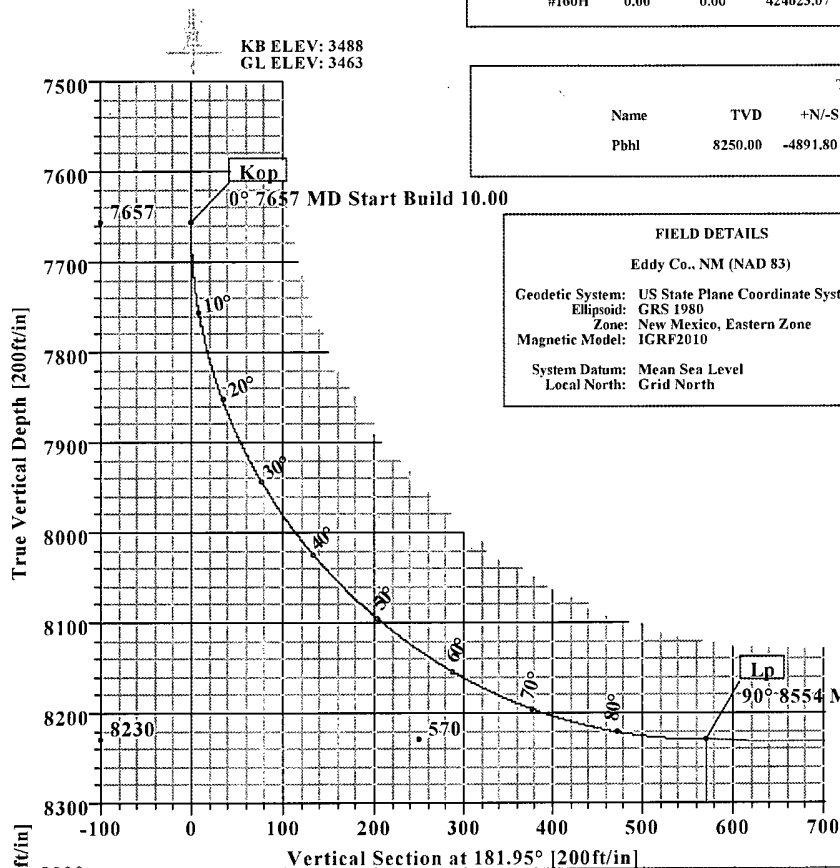
Total Correction to Grid North: 7.31°

LEGEND

- Cotton Draw Unit #135H (1)
- Cotton Draw Unit #136H (1)
- Cotton Draw Unit #137H (1)
- Cotton Draw Unit #152H (1)
- 1
- Plan #1



Weatherford



Plan: Plan #1 (#160H/1)

Created By: R Joyner

Date: 1/18/2011



Weatherford International, Inc.

WELL PLAN REPORT



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #160H
Well: #160H
Wellpath: 1

Date: 1/18/2011
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0
Section (VS) Reference: Well (0.00N,0.00E,181.95Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Time: 12:22:22
Page: 1

Plan: Plan #1
Principal: Yes

Date Composed: 1/18/2011
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 #160H

Site Position: Northing: 424623.07 ft Latitude: 32 9 57.674 N
From: Map Easting: 721783.07 ft Longitude: 103 45 0.663 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3463.00 ft Grid Convergence: 0.31 deg

Well: #160H Slot Name:

Well Position: +N/-S 0.00 ft Northing: 424623.07 ft Latitude: 32 9 57.674 N
+E/-W 0.00 ft Easting: 721783.07 ft Longitude: 103 45 0.663 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3488.00 ft
Magnetic Data: 10/15/2011
Field Strength: 48554 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
8250.00 0.00 0.00 181.95

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.62 deg
Mag Dip Angle: 60.09 deg
+E/-W Direction
ft deg

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	181.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7657.05	0.00	181.95	7657.05	0.00	0.00	0.00	0.00	0.00	181.95	
8554.40	89.74	181.95	8230.00	-569.98	-19.38	10.00	10.00	0.00	181.95	
12878.77	89.74	181.95	8250.00	-4891.80	-166.32	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	Build deg/100ft	Turn deg/100ft	Comment
7600.00	0.00	181.95	7600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7657.05	0.00	181.95	7657.05	0.00	0.00	0.00	0.00	0.00	0.00	Kop
7700.00	4.30	181.95	7699.96	-1.61	-0.05	1.61	10.00	10.00	0.00	
7800.00	14.30	181.95	7798.52	-17.73	-0.60	17.74	10.00	10.00	0.00	
7900.00	24.30	181.95	7892.78	-50.71	-1.72	50.74	10.00	10.00	0.00	
8000.00	34.30	181.95	7979.89	-99.55	-3.38	99.61	10.00	10.00	0.00	
8100.00	44.30	181.95	8057.18	-162.77	-5.53	162.86	10.00	10.00	0.00	
8200.00	54.30	181.95	8122.31	-238.43	-8.11	238.57	10.00	10.00	0.00	
8300.00	64.30	181.95	8173.31	-324.26	-11.02	324.44	10.00	10.00	0.00	
8400.00	74.30	181.95	8208.62	-417.63	-14.20	417.87	10.00	10.00	0.00	
8500.00	84.30	181.95	8227.17	-515.70	-17.53	516.00	10.00	10.00	0.00	
8554.40	89.74	181.95	8230.00	-569.98	-19.38	570.31	10.00	10.00	0.00	Lp
8600.00	89.74	181.95	8230.21	-615.55	-20.93	615.91	0.00	0.00	0.00	
8700.00	89.74	181.95	8230.68	-715.49	-24.33	715.91	0.00	0.00	0.00	
8800.00	89.74	181.95	8231.14	-815.43	-27.72	815.91	0.00	0.00	0.00	
8900.00	89.74	181.95	8231.60	-915.38	-31.12	915.90	0.00	0.00	0.00	
9000.00	89.74	181.95	8232.06	-1015.32	-34.52	1015.90	0.00	0.00	0.00	



Weatherford International, Inc.

WELL PLAN REPORT



Weatherford

Company: Devon Energy Date: 1/18/2011 Time: 12:22:22 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #160H, Grid North
Site: Cotton Draw Unit #160H Vertical (TVD) Reference: SITE 3488.0
Well: #160H Section (VS) Reference: Well (0.00N,0.00E,181.95Azi)
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	Build deg/100ft	Turn deg/100ft	Comment
9100.00	89.74	181.95	8232.52	-1115.26	-37.92	1115.90	0.00	0.00	0.00	
9200.00	89.74	181.95	8232.99	-1215.20	-41.32	1215.90	0.00	0.00	0.00	
9300.00	89.74	181.95	8233.45	-1315.14	-44.71	1315.90	0.00	0.00	0.00	
9400.00	89.74	181.95	8233.91	-1415.08	-48.11	1415.90	0.00	0.00	0.00	
9500.00	89.74	181.95	8234.37	-1515.02	-51.51	1515.90	0.00	0.00	0.00	
9600.00	89.74	181.95	8234.84	-1614.96	-54.91	1615.90	0.00	0.00	0.00	
9700.00	89.74	181.95	8235.30	-1714.90	-58.31	1715.90	0.00	0.00	0.00	
9800.00	89.74	181.95	8235.76	-1814.85	-61.70	1815.89	0.00	0.00	0.00	
9900.00	89.74	181.95	8236.22	-1914.79	-65.10	1915.89	0.00	0.00	0.00	
10000.00	89.74	181.95	8236.69	-2014.73	-68.50	2015.89	0.00	0.00	0.00	
10100.00	89.74	181.95	8237.15	-2114.67	-71.90	2115.89	0.00	0.00	0.00	
10200.00	89.74	181.95	8237.61	-2214.61	-75.30	2215.89	0.00	0.00	0.00	
10300.00	89.74	181.95	8238.07	-2314.55	-78.69	2315.89	0.00	0.00	0.00	
10400.00	89.74	181.95	8238.54	-2414.49	-82.09	2415.89	0.00	0.00	0.00	
10500.00	89.74	181.95	8239.00	-2514.43	-85.49	2515.89	0.00	0.00	0.00	
10600.00	89.74	181.95	8239.46	-2614.38	-88.89	2615.89	0.00	0.00	0.00	
10700.00	89.74	181.95	8239.92	-2714.32	-92.29	2715.88	0.00	0.00	0.00	
10800.00	89.74	181.95	8240.39	-2814.26	-95.68	2815.88	0.00	0.00	0.00	
10900.00	89.74	181.95	8240.85	-2914.20	-99.08	2915.88	0.00	0.00	0.00	
11000.00	89.74	181.95	8241.31	-3014.14	-102.48	3015.88	0.00	0.00	0.00	
11100.00	89.74	181.95	8241.77	-3114.08	-105.88	3115.88	0.00	0.00	0.00	
11200.00	89.74	181.95	8242.24	-3214.02	-109.28	3215.88	0.00	0.00	0.00	
11300.00	89.74	181.95	8242.70	-3313.96	-112.67	3315.88	0.00	0.00	0.00	
11400.00	89.74	181.95	8243.16	-3413.90	-116.07	3415.88	0.00	0.00	0.00	
11500.00	89.74	181.95	8243.62	-3513.85	-119.47	3515.88	0.00	0.00	0.00	
11600.00	89.74	181.95	8244.09	-3613.79	-122.87	3615.88	0.00	0.00	0.00	
11700.00	89.74	181.95	8244.55	-3713.73	-126.27	3715.87	0.00	0.00	0.00	
11800.00	89.74	181.95	8245.01	-3813.67	-129.66	3815.87	0.00	0.00	0.00	
11900.00	89.74	181.95	8245.47	-3913.61	-133.06	3915.87	0.00	0.00	0.00	
12000.00	89.74	181.95	8245.94	-4013.55	-136.46	4015.87	0.00	0.00	0.00	
12100.00	89.74	181.95	8246.40	-4113.49	-139.86	4115.87	0.00	0.00	0.00	
12200.00	89.74	181.95	8246.86	-4213.43	-143.26	4215.87	0.00	0.00	0.00	
12300.00	89.74	181.95	8247.32	-4313.38	-146.65	4315.87	0.00	0.00	0.00	
12400.00	89.74	181.95	8247.79	-4413.32	-150.05	4415.87	0.00	0.00	0.00	
12500.00	89.74	181.95	8248.25	-4513.26	-153.45	4515.87	0.00	0.00	0.00	
12600.00	89.74	181.95	8248.71	-4613.20	-156.85	4615.86	0.00	0.00	0.00	
12700.00	89.74	181.95	8249.17	-4713.14	-160.25	4715.86	0.00	0.00	0.00	
12800.00	89.74	181.95	8249.64	-4813.08	-163.64	4815.86	0.00	0.00	0.00	
12878.77	89.74	181.95	8250.00	-4891.80	-166.32	4894.63	0.00	0.00	0.00	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			8250.00	-4891.80	-166.32	419731.27	721616.75	32	9	9.276 N	103	45	2.906 W



Weatherford International, Inc.

WELL PLAN REPORT



Company:	Devon Energy	Date:	1/18/2011	Time:	12:22:22	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #160H, Grid North				
Site:	Cotton Draw Unit #160H	Vertical (TVD) Reference:	SITE 3488.0				
Well:	#160H	Section (VS) Reference:	Well (0.00N,0.00E,181.95Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature		Db: Sybase		

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7657.05	7657.05	Kop
8554.40	8230.00	Lp
12878.76	8250.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011
Time: 12:27:55
Page: 1

Co-ordinate(N/E) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0

Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD Interval: 100.00 ft
Depth Range: 0.00 to 12878.77 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: 1/18/2011

Principal: Yes

Version: 1
Tied-to: From Surface

Summary

Site	Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw Unit #13	Cotton Draw Unit #131	V0 Plan: Plan #1 V1	12878.77	8139.14	396.12	288.14	3.67	
Cotton Draw Unit #13	Cotton Draw Unit #131	V0 Plan: Plan #1 V1	12878.77	8208.00	329.96	220.39	3.01	
Cotton Draw Unit #13	Cotton Draw Unit #131	V0 Plan: Plan #1 V1	12878.77	8329.00	227.28	128.22	2.29	
Cotton Draw Unit #15	Cotton Draw Unit #151	V0 Plan: Plan #1 V1	8200.00	12846.88	669.89	575.73	7.11	

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

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	186.38	-4888.91	-546.27	4919.51			No Data
100.00	100.00	58.00	58.00	0.08	0.05	186.38	-4888.91	-546.27	4919.33	4919.20	36939.19	
200.00	200.00	158.00	158.00	0.31	0.21	186.38	-4888.91	-546.27	4919.33	4918.81	9393.33	
300.00	300.00	258.00	258.00	0.53	0.44	186.38	-4888.91	-546.27	4919.33	4918.36	5054.61	
400.00	400.00	358.00	358.00	0.76	0.66	186.38	-4888.91	-546.27	4919.33	4917.91	3457.58	
500.00	500.00	458.00	458.00	0.98	0.89	186.38	-4888.91	-546.27	4919.33	4917.46	2627.43	
600.00	600.00	558.00	558.00	1.21	1.11	186.38	-4888.91	-546.27	4919.33	4917.01	2118.73	
700.00	700.00	658.00	658.00	1.43	1.34	186.38	-4888.91	-546.27	4919.33	4916.56	1775.06	
800.00	800.00	758.00	758.00	1.66	1.56	186.38	-4888.91	-546.27	4919.33	4916.11	1527.32	
900.00	900.00	858.00	858.00	1.88	1.79	186.38	-4888.91	-546.27	4919.33	4915.66	1340.26	
1000.00	1000.00	958.00	958.00	2.11	2.01	186.38	-4888.91	-546.27	4919.33	4915.21	1194.02	
1100.00	1100.00	1058.00	1058.00	2.33	2.24	186.38	-4888.91	-546.27	4919.33	4914.77	1076.56	
1200.00	1200.00	1158.00	1158.00	2.56	2.46	186.38	-4888.91	-546.27	4919.33	4914.32	980.14	
1300.00	1300.00	1258.00	1258.00	2.78	2.69	186.38	-4888.91	-546.27	4919.33	4913.87	899.57	
1400.00	1400.00	1358.00	1358.00	3.01	2.91	186.38	-4888.91	-546.27	4919.33	4913.42	831.24	
1500.00	1500.00	1458.00	1458.00	3.23	3.14	186.38	-4888.91	-546.27	4919.33	4912.97	772.55	
1600.00	1600.00	1558.00	1558.00	3.46	3.36	186.38	-4888.91	-546.27	4919.33	4912.52	721.61	
1700.00	1700.00	1658.00	1658.00	3.68	3.59	186.38	-4888.91	-546.27	4919.33	4912.07	676.97	
1800.00	1800.00	1758.00	1758.00	3.91	3.81	186.38	-4888.91	-546.27	4919.33	4911.62	637.53	
1900.00	1900.00	1858.00	1858.00	4.13	4.04	186.38	-4888.91	-546.27	4919.33	4911.17	602.44	
2000.00	2000.00	1958.00	1958.00	4.35	4.26	186.38	-4888.91	-546.27	4919.33	4910.72	571.00	
2100.00	2100.00	2058.00	2058.00	4.58	4.49	186.38	-4888.91	-546.27	4919.33	4910.27	542.68	
2200.00	2200.00	2158.00	2158.00	4.80	4.71	186.38	-4888.91	-546.27	4919.33	4909.82	517.04	
2300.00	2300.00	2258.00	2258.00	5.03	4.93	186.38	-4888.91	-546.27	4919.33	4909.37	493.72	
2400.00	2400.00	2358.00	2358.00	5.25	5.16	186.38	-4888.91	-546.27	4919.33	4908.92	472.40	
2500.00	2500.00	2458.00	2458.00	5.48	5.38	186.38	-4888.91	-546.27	4919.33	4908.47	452.85	
2600.00	2600.00	2558.00	2558.00	5.70	5.61	186.38	-4888.91	-546.27	4919.33	4908.02	434.86	
2700.00	2700.00	2658.00	2658.00	5.93	5.83	186.38	-4888.91	-546.27	4919.33	4907.57	418.24	
2800.00	2800.00	2758.00	2758.00	6.15	6.06	186.38	-4888.91	-546.27	4919.33	4907.12	402.84	
2900.00	2900.00	2858.00	2858.00	6.38	6.28	186.38	-4888.91	-546.27	4919.33	4906.67	388.54	
3000.00	3000.00	2958.00	2958.00	6.60	6.51	186.38	-4888.91	-546.27	4919.33	4906.22	375.22	
3100.00	3100.00	3058.00	3058.00	6.83	6.73	186.38	-4888.91	-546.27	4919.33	4905.77	362.78	
3200.00	3200.00	3158.00	3158.00	7.05	6.96	186.38	-4888.91	-546.27	4919.33	4905.32	351.14	
3300.00	3300.00	3258.00	3258.00	7.28	7.18	186.38	-4888.91	-546.27	4919.33	4904.88	340.22	
3400.00	3400.00	3358.00	3358.00	7.50	7.41	186.38	-4888.91	-546.27	4919.33	4904.43	329.96	



Weatherford International, Inc.

Anticollision Report



Company: Devon Energy
Field: Eddy Co. NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011 Time: 12:27:55
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0

Page: 2

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference MD	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
3500.00	3500.00	3458.00	3458.00	7.73	7.63	186.38	-4888.91	-546.27	4919.33	4903.98	320.31	
3600.00	3600.00	3558.00	3558.00	7.95	7.86	186.38	-4888.91	-546.27	4919.33	4903.53	311.20	
3700.00	3700.00	3658.00	3658.00	8.18	8.08	186.38	-4888.91	-546.27	4919.33	4903.08	302.59	
3800.00	3800.00	3758.00	3758.00	8.40	8.31	186.38	-4888.91	-546.27	4919.33	4902.63	294.45	
3900.00	3900.00	3858.00	3858.00	8.63	8.53	186.38	-4888.91	-546.27	4919.33	4902.18	286.73	
4000.00	4000.00	3958.00	3958.00	8.85	8.76	186.38	-4888.91	-546.27	4919.33	4901.73	279.41	
4100.00	4100.00	4058.00	4058.00	9.07	8.98	186.38	-4888.91	-546.27	4919.33	4901.28	272.46	
4200.00	4200.00	4158.00	4158.00	9.30	9.21	186.38	-4888.91	-546.27	4919.33	4900.83	265.84	
4300.00	4300.00	13826.96	8980.04	9.52	91.52	269.80	-4.08	-1169.37	4864.68	4811.96	92.28	
4400.00	4400.00	13826.96	8980.04	9.75	91.52	269.80	-4.08	-1169.37	4767.67	4714.55	89.76	
4500.00	4500.00	13826.96	8980.04	9.97	91.52	269.80	-4.08	-1169.37	4670.79	4617.26	87.25	
4600.00	4600.00	13826.96	8980.04	10.20	91.52	269.80	-4.08	-1169.37	4574.04	4520.09	84.78	
4700.00	4700.00	13826.96	8980.04	10.42	91.52	269.80	-4.08	-1169.37	4477.44	4423.05	82.32	
4800.00	4800.00	13826.97	8980.04	10.65	91.52	269.80	-4.08	-1169.37	4380.99	4326.15	79.89	
4900.00	4900.00	13826.97	8980.04	10.87	91.52	269.80	-4.08	-1169.37	4284.70	4229.40	77.48	
5000.00	5000.00	13826.97	8980.04	11.10	91.52	269.80	-4.08	-1169.37	4188.58	4132.81	75.10	
5100.00	5100.00	13826.97	8980.04	11.32	91.52	269.80	-4.08	-1169.37	4092.65	4036.39	72.73	
5200.00	5200.00	13826.97	8980.04	11.55	91.52	269.80	-4.08	-1169.37	3996.93	3940.15	70.39	
5300.00	5300.00	13826.97	8980.04	11.77	91.52	269.80	-4.08	-1169.37	3901.41	3844.10	68.08	
5400.00	5400.00	13826.97	8980.04	12.00	91.52	269.80	-4.07	-1169.37	3806.13	3748.27	65.78	
5500.00	5500.00	13826.97	8980.04	12.22	91.52	269.80	-4.07	-1169.37	3711.09	3652.66	63.51	
5600.00	5600.00	13826.97	8980.04	12.45	91.52	269.80	-4.07	-1169.37	3616.32	3557.29	61.26	
5700.00	5700.00	13826.97	8980.04	12.67	91.52	269.80	-4.07	-1169.37	3521.84	3462.19	59.04	
5800.00	5800.00	13826.97	8980.04	12.90	91.52	269.80	-4.07	-1169.37	3427.68	3367.37	56.84	
5900.00	5900.00	13826.98	8980.04	13.12	91.52	269.80	-4.07	-1169.37	3333.85	3272.86	54.66	
6000.00	6000.00	13826.98	8980.04	13.35	91.52	269.80	-4.07	-1169.37	3240.39	3178.68	52.51	
6100.00	6100.00	13826.98	8980.04	13.57	91.52	269.80	-4.07	-1169.37	3147.34	3084.87	50.38	
6200.00	6200.00	13826.98	8980.04	13.80	91.52	269.80	-4.07	-1169.37	3054.72	2991.46	48.28	
6300.00	6300.00	13826.98	8980.04	14.02	91.52	269.80	-4.07	-1169.37	2962.59	2898.48	46.21	
6400.00	6400.00	13826.98	8980.04	14.24	91.52	269.80	-4.07	-1169.37	2870.98	2805.98	44.17	
6500.00	6500.00	13826.98	8980.04	14.47	91.52	269.80	-4.07	-1169.37	2779.95	2714.01	42.16	
6600.00	6600.00	13826.98	8980.04	14.69	91.52	269.80	-4.06	-1169.37	2689.56	2622.61	40.18	
6700.00	6700.00	13826.98	8980.04	14.92	91.52	269.80	-4.06	-1169.37	2599.87	2531.85	38.23	
6800.00	6800.00	13826.98	8980.04	15.14	91.52	269.80	-4.06	-1169.37	2510.95	2441.81	36.31	
6900.00	6900.00	13826.98	8980.04	15.37	91.52	269.80	-4.06	-1169.37	2422.91	2352.55	34.44	
7000.00	7000.00	13826.99	8980.04	15.59	91.52	269.80	-4.06	-1169.37	2335.82	2264.17	32.60	
7100.00	7100.00	13826.99	8980.04	15.82	91.52	269.80	-4.06	-1169.37	2249.82	2176.77	30.80	
7200.00	7200.00	13826.99	8980.04	16.04	91.52	269.80	-4.06	-1169.37	2165.01	2090.48	29.05	
7300.00	7300.00	13826.99	8980.04	16.27	91.52	269.80	-4.06	-1169.37	2081.55	2005.44	27.35	
7400.00	7400.00	13826.99	8980.04	16.49	91.52	269.80	-4.06	-1169.37	1999.61	1921.80	25.70	
7500.00	7500.00	13826.99	8980.04	16.72	91.52	269.80	-4.06	-1169.37	1919.39	1839.75	24.10	
7600.00	7600.00	13826.99	8980.04	16.94	91.52	269.80	-4.06	-1169.37	1841.10	1759.52	22.57	
7700.00	7699.96	13825.38	8980.04	17.17	91.50	92.71	-5.66	-1169.36	1764.99	1681.36	21.11	
7800.00	7798.52	13809.26	8980.04	17.40	91.21	102.54	-21.78	-1169.31	1692.00	1606.44	19.78	
7900.00	7892.78	13776.29	8980.04	17.65	90.62	110.01	-54.76	-1169.19	1624.26	1537.07	18.63	
8000.00	7979.89	13727.45	8980.04	17.94	89.75	115.32	-103.59	-1169.03	1563.59	1475.20	17.69	
8100.00	8057.18	13664.25	8980.04	18.29	88.63	118.93	-166.80	-1168.81	1511.35	1422.23	16.96	
8200.00	8122.31	13588.59	8980.04	18.74	87.29	121.31	-242.45	-1168.55	1468.38	1378.98	16.43	
8300.00	8173.31	13502.78	8980.03	19.31	85.76	122.82	-328.27	-1168.25	1435.10	1345.82	16.07	
8400.00	8208.62	13409.42	8980.03	20.01	84.11	123.78	-421.62	-1167.93	1411.65	1322.79	15.89	
8500.00	8227.17	13311.36	8980.03	20.83	82.37	124.39	-519.69	-1167.59	1398.01	1309.84	15.86	



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011 Time: 12:27:55
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0

Page: 3

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft				
8600.00	8230.21	13211.52	8980.03	21.75	80.61	124.65	-619.52	-1167.24	1393.21	1305.84	15.95	
8700.00	8230.68	13111.59	8980.03	22.78	78.84	124.72	-719.45	-1166.90	1389.87	1303.21	16.04	
8800.00	8231.14	13011.66	8980.03	23.90	77.08	124.79	-819.38	-1166.55	1386.53	1300.49	16.12	
8900.00	8231.60	12911.73	8980.03	25.10	75.33	124.86	-919.31	-1166.21	1383.19	1297.70	16.18	
9000.00	8232.06	12811.80	8980.03	26.37	73.57	124.94	-1019.23	-1165.86	1379.85	1294.85	16.23	
9100.00	8232.52	12711.88	8980.03	27.71	71.82	125.01	-1119.16	-1165.51	1376.52	1291.95	16.28	
9200.00	8232.99	12611.95	8980.03	29.09	70.07	125.08	-1219.09	-1165.17	1373.19	1289.00	16.31	
9300.00	8233.45	12512.02	8980.03	30.52	68.33	125.16	-1319.02	-1164.82	1369.86	1286.00	16.34	
9400.00	8233.91	12412.09	8980.03	31.99	66.59	125.23	-1418.95	-1164.48	1366.53	1282.98	16.35	
9500.00	8234.37	12312.16	8980.02	33.50	64.86	125.31	-1518.88	-1164.13	1363.21	1279.92	16.37	
9600.00	8234.84	12212.23	8980.02	35.03	63.13	125.38	-1618.80	-1163.79	1359.89	1276.83	16.37	
9700.00	8235.30	12112.30	8980.02	36.59	61.41	125.46	-1718.73	-1163.44	1356.57	1273.71	16.37	
9800.00	8235.76	12012.37	8980.02	38.17	59.69	125.53	-1818.66	-1163.10	1353.25	1270.58	16.37	
9900.00	8236.22	11912.45	8980.02	39.78	57.98	125.61	-1918.59	-1162.75	1349.93	1267.42	16.36	
10000.00	8236.69	11812.52	8980.02	41.40	56.28	125.69	-2018.52	-1162.40	1346.62	1264.24	16.35	
10100.00	8237.15	11712.59	8980.02	43.03	54.58	125.76	-2118.45	-1162.06	1343.31	1261.04	16.33	
10200.00	8237.61	11612.66	8980.02	44.68	52.90	125.84	-2218.37	-1161.71	1340.00	1257.83	16.31	
10300.00	8238.07	11512.73	8980.02	46.34	51.22	125.92	-2318.30	-1161.37	1336.70	1254.60	16.28	
10400.00	8238.54	11412.80	8980.02	48.02	49.55	126.00	-2418.23	-1161.02	1333.40	1251.35	16.25	
10500.00	8239.00	11312.87	8980.02	49.70	47.90	126.08	-2518.16	-1160.68	1330.10	1248.09	16.22	
10600.00	8239.46	11212.94	8980.01	51.39	46.26	126.16	-2618.09	-1160.33	1326.80	1244.81	16.18	
10700.00	8239.92	11113.01	8980.01	53.09	44.63	126.23	-2718.01	-1159.99	1323.50	1241.51	16.14	
10800.00	8240.39	11013.09	8980.01	54.80	43.02	126.31	-2817.94	-1159.64	1320.21	1238.20	16.10	
10900.00	8240.85	10913.16	8980.01	56.52	41.43	126.40	-2917.87	-1159.30	1316.92	1234.86	16.05	
11000.00	8241.31	10813.23	8980.01	58.24	39.85	126.48	-3017.80	-1158.95	1313.63	1231.51	16.00	
11100.00	8241.77	10713.30	8980.01	59.96	38.30	126.56	-3117.73	-1158.60	1310.35	1228.13	15.94	
11200.00	8242.24	10613.37	8980.01	61.69	36.77	126.64	-3217.66	-1158.26	1307.07	1224.73	15.88	
11300.00	8242.70	10513.44	8980.01	63.43	35.28	126.72	-3317.58	-1157.91	1303.79	1221.31	15.81	
11400.00	8243.16	10413.51	8980.01	65.17	33.81	126.80	-3417.51	-1157.57	1300.51	1217.85	15.73	
11500.00	8243.62	10313.58	8980.01	66.92	32.38	126.88	-3517.44	-1157.22	1297.24	1214.37	15.65	
11600.00	8244.09	10213.66	8980.01	68.67	30.99	126.97	-3617.37	-1156.88	1293.97	1210.84	15.57	
11700.00	8244.55	8114.49	8114.19	70.42	18.07	76.33	-4890.01	-552.43	1254.21	1167.43	14.45	
11800.00	8245.01	8116.21	8115.90	72.17	18.08	76.58	-4890.05	-552.67	1159.79	1071.24	13.10	
11900.00	8245.47	8117.99	8117.66	73.93	18.08	76.83	-4890.09	-552.93	1066.38	976.05	11.81	
12000.00	8245.94	8119.82	8119.48	75.69	18.08	77.10	-4890.14	-553.19	974.27	882.16	10.58	
12100.00	8246.40	8121.73	8121.36	77.45	18.09	77.37	-4890.19	-553.47	883.87	789.97	9.41	
12200.00	8246.86	8123.30	8123.30	79.22	18.09	77.66	-4890.24	-553.77	795.76	700.07	8.32	
12300.00	8247.32	8125.74	8125.32	80.99	18.10	77.95	-4890.30	-554.08	710.80	613.31	7.29	
12400.00	8247.79	8127.85	8127.40	82.76	18.10	78.26	-4890.36	-554.41	630.25	530.96	6.35	
12500.00	8248.25	8130.04	8129.57	84.53	18.11	78.57	-4890.42	-554.76	556.04	454.95	5.50	
12600.00	8248.71	8132.32	8131.81	86.30	18.11	78.90	-4890.48	-555.13	491.05	388.16	4.77	
12700.00	8249.17	8134.68	8134.14	88.08	18.11	79.24	-4890.55	-555.53	439.38	334.68	4.20	
12800.00	8249.64	8137.13	8136.56	89.86	18.12	79.60	-4890.63	-555.95	406.16	299.64	3.81	
12878.77	8250.00	8139.14	8138.53	91.26	18.12	79.89	-4890.69	-556.29	396.12	288.14	3.67	

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft				



Weatherford International, Inc.

Anticollision Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1
Date: 1/18/2011
Time: 12:27:55
Page: 4
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0
Db: Sybase

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
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	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
0.00	0.00	0.00	0.00	0.00	0.00	185.80	-4889.35	-496.27	4914.65		No Data
100.00	100.00	58.00	58.00	0.08	0.05	185.80	-4889.35	-496.27	4914.47	4914.34	
200.00	200.00	158.00	158.00	0.31	0.21	185.80	-4889.35	-496.27	4914.47	4913.95	
300.00	300.00	258.00	258.00	0.53	0.44	185.80	-4889.35	-496.27	4914.47	4913.50	
400.00	400.00	358.00	358.00	0.76	0.66	185.80	-4889.35	-496.27	4914.47	4913.05	
500.00	500.00	458.00	458.00	0.98	0.89	185.80	-4889.35	-496.27	4914.47	4912.60	2624.83
600.00	600.00	558.00	558.00	1.21	1.11	185.80	-4889.35	-496.27	4914.47	4912.15	2116.63
700.00	700.00	658.00	658.00	1.43	1.34	185.80	-4889.35	-496.27	4914.47	4911.70	1773.30
800.00	800.00	758.00	758.00	1.66	1.56	185.80	-4889.35	-496.27	4914.47	4911.25	1525.81
900.00	900.00	858.00	858.00	1.88	1.79	185.80	-4889.35	-496.27	4914.47	4910.80	1338.94
1000.00	1000.00	958.00	958.00	2.11	2.01	185.80	-4889.35	-496.27	4914.47	4910.35	1192.84
1100.00	1100.00	1058.00	1058.00	2.33	2.24	185.80	-4889.35	-496.27	4914.47	4909.90	1075.50
1200.00	1200.00	1158.00	1158.00	2.56	2.46	185.80	-4889.35	-496.27	4914.47	4909.45	979.17
1300.00	1300.00	1258.00	1258.00	2.78	2.69	185.80	-4889.35	-496.27	4914.47	4909.00	898.68
1400.00	1400.00	1358.00	1358.00	3.01	2.91	185.80	-4889.35	-496.27	4914.47	4908.55	830.42
1500.00	1500.00	1458.00	1458.00	3.23	3.14	185.80	-4889.35	-496.27	4914.47	4908.10	771.79
1600.00	1600.00	1558.00	1558.00	3.46	3.36	185.80	-4889.35	-496.27	4914.47	4907.65	720.90
1700.00	1700.00	1658.00	1658.00	3.68	3.59	185.80	-4889.35	-496.27	4914.47	4907.20	676.30
1800.00	1800.00	1758.00	1758.00	3.91	3.81	185.80	-4889.35	-496.27	4914.47	4906.75	636.90
1900.00	1900.00	1858.00	1858.00	4.13	4.04	185.80	-4889.35	-496.27	4914.47	4906.31	601.84
2000.00	2000.00	1958.00	1958.00	4.35	4.26	185.80	-4889.35	-496.27	4914.47	4905.86	570.44
2100.00	2100.00	2058.00	2058.00	4.58	4.49	185.80	-4889.35	-496.27	4914.47	4905.41	542.15
2200.00	2200.00	2158.00	2158.00	4.80	4.71	185.80	-4889.35	-496.27	4914.47	4904.96	516.53
2300.00	2300.00	2258.00	2258.00	5.03	4.93	185.80	-4889.35	-496.27	4914.47	4904.51	493.23
2400.00	2400.00	2358.00	2358.00	5.25	5.16	185.80	-4889.35	-496.27	4914.47	4904.06	471.94
2500.00	2500.00	2458.00	2458.00	5.48	5.38	185.80	-4889.35	-496.27	4914.47	4903.61	452.41
2600.00	2600.00	2558.00	2558.00	5.70	5.61	185.80	-4889.35	-496.27	4914.47	4903.16	434.43
2700.00	2700.00	2658.00	2658.00	5.93	5.83	185.80	-4889.35	-496.27	4914.47	4902.71	417.83
2800.00	2800.00	2758.00	2758.00	6.15	6.06	185.80	-4889.35	-496.27	4914.47	4902.26	402.44
2900.00	2900.00	2858.00	2858.00	6.38	6.28	185.80	-4889.35	-496.27	4914.47	4901.81	388.16
3000.00	3000.00	2958.00	2958.00	6.60	6.51	185.80	-4889.35	-496.27	4914.47	4901.36	374.85
3100.00	3100.00	3058.00	3058.00	6.83	6.73	185.80	-4889.35	-496.27	4914.47	4900.91	362.42
3200.00	3200.00	3158.00	3158.00	7.05	6.96	185.80	-4889.35	-496.27	4914.47	4900.46	350.79
3300.00	3300.00	3258.00	3258.00	7.28	7.18	185.80	-4889.35	-496.27	4914.47	4900.01	339.89
3400.00	3400.00	3358.00	3358.00	7.50	7.41	185.80	-4889.35	-496.27	4914.47	4899.56	329.64
3500.00	3500.00	3458.00	3458.00	7.73	7.63	185.80	-4889.35	-496.27	4914.47	4899.11	319.99
3600.00	3600.00	3558.00	3558.00	7.95	7.86	185.80	-4889.35	-496.27	4914.47	4898.66	310.89
3700.00	3700.00	3658.00	3658.00	8.18	8.08	185.80	-4889.35	-496.27	4914.47	4898.21	302.29
3800.00	3800.00	3758.00	3758.00	8.40	8.31	185.80	-4889.35	-496.27	4914.47	4897.76	294.16
3900.00	3900.00	3858.00	3858.00	8.63	8.53	185.80	-4889.35	-496.27	4914.47	4897.31	286.45
4000.00	4000.00	3958.00	3958.00	8.85	8.76	185.80	-4889.35	-496.27	4914.47	4896.87	279.14
4100.00	4100.00	4058.00	4058.00	9.07	8.98	185.80	-4889.35	-496.27	4914.47	4896.42	272.19
4200.00	4200.00	13609.13	8980.00	9.30	90.34	269.69	-2.72	-500.17	4847.87	4800.85	103.10
4300.00	4300.00	13609.13	8980.00	9.52	90.34	269.69	-2.72	-500.17	4748.42	4701.13	100.41
4400.00	4400.00	13609.13	8980.00	9.75	90.34	269.69	-2.72	-500.17	4648.99	4601.43	97.76
4500.00	4500.00	13609.13	8980.00	9.97	90.34	269.69	-2.72	-500.17	4549.58	4501.75	95.12
4600.00	4600.00	13609.13	8980.00	10.20	90.34	269.69	-2.72	-500.17	4450.20	4402.10	92.51
4700.00	4700.00	13609.13	8980.00	10.42	90.34	269.69	-2.72	-500.17	4350.85	4302.47	89.93
4800.00	4800.00	13609.13	8980.00	10.65	90.34	269.69	-2.72	-500.17	4251.52	4202.86	87.37
4900.00	4900.00	13609.13	8980.00	10.87	90.34	269.69	-2.72	-500.17	4152.24	4103.29	84.83
5000.00	5000.00	13609.13	8980.00	11.10	90.34	269.69	-2.72	-500.17	4052.98	4003.75	82.32



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1
Date: 1/18/2011
Time: 12:27:55
Page: 5
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0
Db: Sybase

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
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		
5100.00	5100.00	13609.13	8980.00	11.32	90.34	269.69	-2.72	-500.17	3953.77	3904.24	79.83	
5200.00	5200.00	13609.13	8980.00	11.55	90.34	269.69	-2.72	-500.17	3854.59	3804.76	77.36	
5300.00	5300.00	13609.13	8980.00	11.77	90.34	269.69	-2.72	-500.17	3755.46	3705.32	74.91	
5400.00	5400.00	13609.13	8980.00	12.00	90.34	269.69	-2.72	-500.17	3656.37	3605.93	72.48	
5500.00	5500.00	13609.13	8980.00	12.22	90.34	269.69	-2.72	-500.17	3557.34	3506.57	70.07	
5600.00	5600.00	13609.13	8980.00	12.45	90.34	269.69	-2.72	-500.17	3458.36	3407.27	67.69	
5700.00	5700.00	13609.13	8980.00	12.67	90.34	269.69	-2.72	-500.17	3359.44	3308.02	65.32	
5800.00	5800.00	13609.13	8980.00	12.90	90.34	269.69	-2.72	-500.17	3260.59	3208.82	62.98	
5900.00	5900.00	13609.13	8980.00	13.12	90.34	269.69	-2.72	-500.17	3161.81	3109.69	60.65	
6000.00	6000.00	13609.13	8980.00	13.35	90.34	269.69	-2.72	-500.17	3063.11	3010.62	58.35	
6100.00	6100.00	13609.13	8980.00	13.57	90.34	269.69	-2.72	-500.17	2964.50	2911.62	56.06	
6200.00	6200.00	13609.13	8980.00	13.80	90.34	269.69	-2.72	-500.17	2865.98	2812.71	53.79	
6300.00	6300.00	13609.13	8980.00	14.02	90.34	269.69	-2.72	-500.17	2767.57	2713.88	51.55	
6400.00	6400.00	13609.13	8980.00	14.24	90.34	269.69	-2.72	-500.17	2669.28	2615.15	49.32	
6500.00	6500.00	13609.13	8980.00	14.47	90.34	269.69	-2.72	-500.17	2571.12	2516.54	47.10	
6600.00	6600.00	13609.13	8980.00	14.69	90.34	269.69	-2.72	-500.17	2473.11	2418.04	44.91	
6700.00	6700.00	13609.13	8980.00	14.92	90.34	269.69	-2.72	-500.17	2375.26	2319.68	42.73	
6800.00	6800.00	13609.13	8980.00	15.14	90.34	269.69	-2.72	-500.17	2277.60	2221.47	40.57	
6900.00	6900.00	13609.13	8980.00	15.37	90.34	269.69	-2.72	-500.17	2180.15	2123.43	38.43	
7000.00	7000.00	13609.13	8980.00	15.59	90.34	269.69	-2.72	-500.17	2082.95	2025.58	36.31	
7100.00	7100.00	13609.13	8980.00	15.82	90.34	269.69	-2.72	-500.17	1986.02	1927.96	34.21	
7200.00	7200.00	13609.13	8980.00	16.04	90.34	269.69	-2.72	-500.17	1889.41	1830.59	32.12	
7300.00	7300.00	13609.13	8980.00	16.27	90.34	269.69	-2.72	-500.17	1793.17	1733.52	30.06	
7400.00	7400.00	13609.13	8980.00	16.49	90.34	269.69	-2.72	-500.17	1697.37	1636.79	28.02	
7500.00	7500.00	13609.13	8980.00	16.72	90.34	269.69	-2.72	-500.17	1602.08	1540.46	26.00	
7600.00	7600.00	13609.13	8980.00	16.94	90.34	269.69	-2.72	-500.17	1507.40	1444.60	24.00	
7700.00	7699.96	13607.52	8980.00	17.17	90.31	99.02	-4.33	-500.16	1413.47	1349.36	22.05	
7800.00	7798.52	13591.42	8980.00	17.40	90.03	119.56	-20.43	-500.08	1321.51	1256.14	20.22	
7900.00	7892.78	13558.48	8980.00	17.65	89.44	131.91	-53.38	-499.90	1234.23	1167.94	18.62	
8000.00	7979.89	13509.69	8980.00	17.94	88.57	139.03	-102.16	-499.64	1154.24	1087.44	17.28	
8100.00	8057.18	13446.55	8980.00	18.29	87.45	143.22	-165.30	-499.31	1083.84	1016.90	16.19	
8200.00	8122.31	13370.97	8980.00	18.74	86.11	145.72	-240.88	-498.93	1024.87	958.13	15.36	
8300.00	8173.31	13285.24	8980.00	19.31	84.59	147.22	-326.61	-498.51	978.74	912.48	14.77	
8400.00	8208.62	13191.98	8980.00	20.01	82.93	148.14	-419.87	-498.07	946.43	880.88	14.44	
8500.00	8227.17	13094.01	8980.00	20.83	81.20	148.70	-517.84	-497.62	928.57	863.86	14.35	
8600.00	8230.21	12994.27	8980.00	21.75	79.44	148.99	-617.58	-497.19	923.99	860.11	14.46	
8700.00	8230.68	12894.43	8980.00	22.78	77.68	149.18	-717.41	-496.77	921.63	858.46	14.59	
8800.00	8231.14	12794.60	8980.00	23.90	75.92	149.36	-817.25	-496.38	919.29	856.76	14.70	
8900.00	8231.60	12694.76	8980.00	25.10	74.16	149.55	-917.09	-496.00	916.98	855.03	14.80	
9000.00	8232.06	12594.92	8980.00	26.37	72.41	149.74	-1016.92	-495.64	914.68	853.26	14.89	
9100.00	8232.52	12495.08	8980.00	27.71	70.66	149.93	-1116.76	-495.30	912.40	851.47	14.98	
9200.00	8232.99	12395.24	8980.00	29.09	68.92	150.12	-1216.61	-494.98	910.14	849.66	15.05	
9300.00	8233.45	12295.39	8980.00	30.52	67.18	150.30	-1316.45	-494.68	907.90	847.83	15.11	
9400.00	8233.91	12195.55	8980.00	31.99	65.44	150.49	-1416.29	-494.40	905.68	845.99	15.17	
9500.00	8234.37	12095.70	8980.00	33.50	63.71	150.68	-1516.14	-494.14	903.48	844.13	15.22	
9600.00	8234.84	11995.85	8980.00	35.03	61.98	150.87	-1615.99	-493.90	901.30	842.27	15.27	
9700.00	8235.30	11896.01	8980.00	36.59	60.26	151.05	-1715.84	-493.67	899.14	840.41	15.31	
9800.00	8235.76	11796.15	8980.00	38.17	58.55	151.24	-1815.69	-493.47	896.99	838.54	15.35	
9900.00	8236.22	11696.30	8980.00	39.78	56.84	151.43	-1915.54	-493.29	894.87	836.67	15.38	
10000.00	8236.69	11596.45	8980.00	41.40	55.15	151.61	-2015.39	-493.12	892.76	834.80	15.40	
10100.00	8237.15	11496.60	8980.00	43.03	53.46	151.80	-2115.24	-492.98	890.67	832.92	15.42	



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 1/18/2011 Time: 12:27:55 Page: 6
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H Co-ordinate(NE) Reference: Well: #160H, Grid North
Reference Well: #160H Vertical (TVD) Reference: SITE 3488.0
Reference Wellpath: 1 Db: Sybase

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
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	ft	
10200.00	8237.61	11396.74	8980.00	44.68	51.77	151.98	-2215.10	-492.85	888.60	831.05	15.44
10300.00	8238.07	11296.88	8980.00	46.34	50.10	152.17	-2314.96	-492.74	886.55	829.18	15.45
10400.00	8238.54	11197.02	8980.00	48.02	48.44	152.36	-2414.82	-492.65	884.52	827.32	15.46
10500.00	8239.00	11097.16	8980.00	49.70	46.79	152.54	-2514.68	-492.58	882.51	825.45	15.47
10600.00	8239.46	10997.30	8980.00	51.39	45.16	152.73	-2614.54	-492.53	880.51	823.58	15.47
10700.00	8239.92	10897.44	8980.00	53.09	43.54	152.91	-2714.40	-492.50	878.53	821.72	15.46
10800.00	8240.39	10797.58	8980.00	54.80	41.94	153.10	-2814.26	-492.49	876.57	819.85	15.46
10900.00	8240.85	10697.71	8980.00	56.52	40.35	153.28	-2914.13	-492.50	874.63	817.99	15.44
11000.00	8241.31	10597.84	8980.00	58.24	38.79	153.46	-3014.00	-492.53	872.70	816.12	15.42
11100.00	8241.77	10497.98	8980.00	59.96	37.25	153.65	-3113.86	-492.57	870.80	814.25	15.40
11200.00	8242.24	10398.11	8980.00	61.69	35.73	153.83	-3213.73	-492.64	868.91	812.37	15.37
11300.00	8242.70	10298.24	8980.00	63.43	34.25	154.01	-3313.60	-492.72	867.03	810.49	15.33
11400.00	8243.16	10198.36	8980.00	65.17	32.80	154.20	-3413.47	-492.83	865.18	808.59	15.29
11500.00	8243.62	10098.49	8980.00	66.92	31.39	154.38	-3513.35	-492.95	863.34	806.69	15.24
11600.00	8244.09	9998.62	8980.00	68.67	30.03	154.56	-3613.22	-493.10	861.52	804.77	15.18
11700.00	8244.55	9898.74	8980.00	70.42	28.72	154.74	-3713.10	-493.26	859.72	802.83	15.11
11800.00	8245.01	9798.87	8980.00	72.17	27.46	154.92	-3812.97	-493.44	857.93	800.87	15.04
11900.00	8245.47	9698.99	8980.00	73.93	26.27	155.10	-3912.85	-493.64	856.16	798.89	14.95
12000.00	8245.94	9599.11	8980.00	75.69	25.16	155.28	-4012.73	-493.86	854.41	796.88	14.85
12100.00	8246.40	9499.23	8980.00	77.45	24.13	155.46	-4112.61	-494.10	852.67	794.84	14.74
12200.00	8246.86	9399.35	8980.00	79.22	23.10	155.64	-4212.50	-494.34	850.93	792.80	14.62
12300.00	8247.32	9299.47	8980.00	80.99	22.07	155.82	-4312.38	-494.58	849.21	790.76	14.50
12400.00	8247.79	9199.59	8980.00	82.76	21.04	156.00	-4412.26	-494.82	847.49	788.72	14.38
12500.00	8248.25	9099.71	8980.00	84.53	20.01	156.18	-4512.14	-495.06	845.77	786.68	14.26
12600.00	8248.71	8999.83	8980.00	86.30	18.98	156.36	-4612.02	-495.30	844.05	784.64	14.14
12700.00	8249.17	8899.95	8980.00	88.08	17.95	156.54	-4711.90	-495.54	842.33	782.60	14.02
12800.00	8249.64	8799.07	8980.00	89.86	16.92	156.72	-4811.78	-495.78	840.61	780.56	13.90
12878.77	8250.00	8700.00	8980.00	91.63	15.89	156.90	-4911.66	-496.02	838.89	778.52	13.78

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	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	185.22	-4889.67	-446.29	4910.18		No Data
100.00	100.00	57.00	57.00	0.08	0.05	185.22	-4889.67	-446.29	4909.99	4909.86	
200.00	200.00	157.00	157.00	0.31	0.21	185.22	-4889.67	-446.29	4909.99	4909.47	
300.00	300.00	257.00	257.00	0.53	0.44	185.22	-4889.67	-446.29	4909.99	4909.02	
400.00	400.00	357.00	357.00	0.76	0.66	185.22	-4889.67	-446.29	4909.99	4908.57	
500.00	500.00	457.00	457.00	0.98	0.89	185.22	-4889.67	-446.29	4909.99	4908.12	
600.00	600.00	557.00	557.00	1.21	1.11	185.22	-4889.67	-446.29	4909.99	4907.68	
700.00	700.00	657.00	657.00	1.43	1.34	185.22	-4889.67	-446.29	4909.99	4907.23	
800.00	800.00	757.00	757.00	1.66	1.56	185.22	-4889.67	-446.29	4909.99	4906.78	
900.00	900.00	857.00	857.00	1.88	1.79	185.22	-4889.67	-446.29	4909.99	4906.33	
1000.00	1000.00	957.00	957.00	2.11	2.01	185.22	-4889.67	-446.29	4909.99	4905.88	
1100.00	1100.00	1057.00	1057.00	2.33	2.24	185.22	-4889.67	-446.29	4909.99	4905.43	
1200.00	1200.00	1157.00	1157.00	2.56	2.46	185.22	-4889.67	-446.29	4909.99	4904.98	
1300.00	1300.00	1257.00	1257.00	2.78	2.68	185.22	-4889.67	-446.29	4909.99	4904.53	
1400.00	1400.00	1357.00	1357.00	3.01	2.91	185.22	-4889.67	-446.29	4909.99	4904.08	
1500.00	1500.00	1457.00	1457.00	3.23	3.13	185.22	-4889.67	-446.29	4909.99	4903.63	
1600.00	1600.00	1557.00	1557.00	3.46	3.36	185.22	-4889.67	-446.29	4909.99	4903.18	



Weatherford International, Inc.

Anticollision Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1
Date: 1/18/2011
Time: 12:27:55
Page: 7
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
1700.00	1700.00	1657.00	1657.00	3.68	3.58	185.22	-4889.67	-446.29	4909.99	4902.73	675.89	
1800.00	1800.00	1757.00	1757.00	3.91	3.81	185.22	-4889.67	-446.29	4909.99	4902.28	636.51	
1900.00	1900.00	1857.00	1857.00	4.13	4.03	185.22	-4889.67	-446.29	4909.99	4901.83	601.46	
2000.00	2000.00	1957.00	1957.00	4.35	4.26	185.22	-4889.67	-446.29	4909.99	4901.38	570.07	
2100.00	2100.00	2057.00	2057.00	4.58	4.48	185.22	-4889.67	-446.29	4909.99	4900.93	541.79	
2200.00	2200.00	2157.00	2157.00	4.80	4.71	185.22	-4889.67	-446.29	4909.99	4900.48	516.18	
2300.00	2300.00	2257.00	2257.00	5.03	4.93	185.22	-4889.67	-446.29	4909.99	4900.03	492.89	
2400.00	2400.00	2357.00	2357.00	5.25	5.16	185.22	-4889.67	-446.29	4909.99	4899.58	471.61	
2500.00	2500.00	2457.00	2457.00	5.48	5.38	185.22	-4889.67	-446.29	4909.99	4899.13	452.09	
2600.00	2600.00	2557.00	2557.00	5.70	5.61	185.22	-4889.67	-446.29	4909.99	4898.68	434.12	
2700.00	2700.00	2657.00	2657.00	5.93	5.83	185.22	-4889.67	-446.29	4909.99	4898.23	417.53	
2800.00	2800.00	2757.00	2757.00	6.15	6.06	185.22	-4889.67	-446.29	4909.99	4897.79	402.15	
2900.00	2900.00	2857.00	2857.00	6.38	6.28	185.22	-4889.67	-446.29	4909.99	4897.34	387.87	
3000.00	3000.00	2957.00	2957.00	6.60	6.51	185.22	-4889.67	-446.29	4909.99	4896.89	374.57	
3100.00	3100.00	3057.00	3057.00	6.83	6.73	185.22	-4889.67	-446.29	4909.99	4896.44	362.15	
3200.00	3200.00	3157.00	3157.00	7.05	6.96	185.22	-4889.67	-446.29	4909.99	4895.99	350.53	
3300.00	3300.00	3257.00	3257.00	7.28	7.18	185.22	-4889.67	-446.29	4909.99	4895.54	339.63	
3400.00	3400.00	3357.00	3357.00	7.50	7.40	185.22	-4889.67	-446.29	4909.99	4895.09	329.39	
3500.00	3500.00	3457.00	3457.00	7.73	7.63	185.22	-4889.67	-446.29	4909.99	4894.64	319.74	
3600.00	3600.00	3557.00	3557.00	7.95	7.85	185.22	-4889.67	-446.29	4909.99	4894.19	310.65	
3700.00	3700.00	3657.00	3657.00	8.18	8.08	185.22	-4889.67	-446.29	4909.99	4893.74	302.06	
3800.00	3800.00	3757.00	3757.00	8.40	8.30	185.22	-4889.67	-446.29	4909.99	4893.29	293.93	
3900.00	3900.00	3857.00	3857.00	8.63	8.53	185.22	-4889.67	-446.29	4909.99	4892.84	286.23	
4000.00	4000.00	3957.00	3957.00	8.85	8.75	185.22	-4889.67	-446.29	4909.99	4892.39	278.92	
4100.00	4100.00	4057.00	4057.00	9.07	8.98	185.22	-4889.67	-446.29	4909.99	4891.94	271.97	
4200.00	4200.00	13842.59	8980.00	9.30	90.25	89.74	0.67	145.77	4825.20	4776.78	99.65	
4300.00	4300.00	13842.59	8980.00	9.52	90.25	89.74	0.67	145.77	4725.24	4676.60	97.14	
4400.00	4400.00	13842.59	8980.00	9.75	90.25	89.74	0.67	145.77	4625.29	4576.42	94.64	
4500.00	4500.00	13842.59	8980.00	9.97	90.25	89.74	0.67	145.77	4525.34	4476.25	92.17	
4600.00	4600.00	13842.59	8980.00	10.20	90.25	89.74	0.67	145.77	4425.40	4376.07	89.72	
4700.00	4700.00	13842.59	8980.00	10.42	90.25	89.74	0.67	145.77	4325.45	4275.90	87.29	
4800.00	4800.00	13842.59	8980.00	10.65	90.25	89.74	0.67	145.77	4225.51	4175.73	84.89	
4900.00	4900.00	13842.59	8980.00	10.87	90.25	89.74	0.67	145.77	4125.57	4075.57	82.50	
5000.00	5000.00	13842.59	8980.00	11.10	90.25	89.74	0.67	145.77	4025.64	3975.40	80.14	
5100.00	5100.00	13842.59	8980.00	11.32	90.25	89.74	0.67	145.77	3925.70	3875.24	77.80	
5200.00	5200.00	13842.59	8980.00	11.55	90.25	89.74	0.67	145.77	3825.77	3775.08	75.48	
5300.00	5300.00	13842.59	8980.00	11.77	90.25	89.74	0.67	145.77	3725.85	3674.93	73.17	
5400.00	5400.00	13842.59	8980.00	12.00	90.25	89.74	0.67	145.77	3625.93	3574.78	70.89	
5500.00	5500.00	13842.59	8980.00	12.22	90.25	89.74	0.67	145.77	3526.01	3474.64	68.63	
5600.00	5600.00	13842.59	8980.00	12.45	90.25	89.74	0.67	145.77	3426.10	3374.49	66.39	
5700.00	5700.00	13842.59	8980.00	12.67	90.25	89.74	0.67	145.77	3326.19	3274.36	64.17	
5800.00	5800.00	13842.59	8980.00	12.90	90.25	89.74	0.67	145.77	3226.29	3174.23	61.97	
5900.00	5900.00	13842.59	8980.00	13.12	90.25	89.74	0.67	145.77	3126.40	3074.10	59.78	
6000.00	6000.00	13842.59	8980.00	13.35	90.25	89.74	0.67	145.77	3026.51	2973.98	57.62	
6100.00	6100.00	13842.59	8980.00	13.57	90.25	89.74	0.67	145.77	2926.63	2873.87	55.47	
6200.00	6200.00	13842.59	8980.00	13.80	90.25	89.74	0.67	145.77	2826.76	2773.76	53.34	
6300.00	6300.00	13842.59	8980.00	14.02	90.25	89.74	0.67	145.77	2726.89	2673.66	51.23	
6400.00	6400.00	13842.59	8980.00	14.24	90.25	89.74	0.67	145.77	2627.04	2573.57	49.13	
6500.00	6500.00	13842.59	8980.00	14.47	90.25	89.74	0.67	145.77	2527.20	2473.49	47.05	
6600.00	6600.00	13842.59	8980.00	14.69	90.25	89.74	0.67	145.77	2427.38	2373.43	44.99	
6700.00	6700.00	13842.59	8980.00	14.92	90.25	89.74	0.67	145.77	2327.56	2273.37	42.95	



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011
Time: 12:27:55
Page: 8

Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
6800.00	6800.00	13842.59	8980.00	15.14	90.25	89.74	0.67	145.77	2227.77	2173.33	40.92	
6900.00	6900.00	13842.59	8980.00	15.37	90.25	89.74	0.67	145.77	2127.99	2073.31	38.91	
7000.00	7000.00	13842.59	8980.00	15.59	90.25	89.74	0.67	145.77	2028.24	1973.30	36.92	
7100.00	7100.00	13842.59	8980.00	15.82	90.25	89.74	0.67	145.77	1928.51	1873.31	34.94	
7200.00	7200.00	13842.59	8980.00	16.04	90.25	89.74	0.67	145.77	1828.81	1773.35	32.97	
7300.00	7300.00	13842.59	8980.00	16.27	90.25	89.74	0.67	145.77	1729.15	1673.41	31.02	
7400.00	7400.00	13842.59	8980.00	16.49	90.25	89.74	0.67	145.77	1629.53	1573.50	29.08	
7500.00	7500.00	13842.59	8980.00	16.72	90.25	89.74	0.67	145.77	1529.96	1473.63	27.16	
7600.00	7600.00	13842.59	8980.00	16.94	90.25	89.74	0.67	145.77	1430.44	1373.81	25.26	
7700.00	7699.96	13840.98	8980.00	17.17	90.22	234.31	-0.94	145.78	1331.05	1274.10	23.37	
7800.00	7798.52	13824.86	8980.00	17.40	89.94	205.43	-17.06	145.86	1233.20	1176.30	21.67	
7900.00	7892.78	13791.88	8980.00	17.65	89.35	197.43	-50.03	146.01	1139.82	1083.45	20.22	
8000.00	7979.89	13743.05	8980.00	17.94	88.48	194.16	-98.87	146.23	1053.79	998.34	19.01	
8100.00	8057.18	13679.85	8980.00	18.29	87.36	192.62	-162.07	146.52	977.71	923.51	18.04	
8200.00	8122.31	13604.19	8980.00	18.74	86.02	191.90	-237.72	146.86	913.92	861.15	17.32	
8300.00	8173.31	13518.38	8980.00	19.31	84.50	191.63	-323.53	147.26	864.31	813.01	16.85	
8400.00	8208.62	13425.03	8980.00	20.01	82.84	191.63	-416.88	147.68	830.31	780.36	16.62	
8500.00	8227.17	13326.97	8980.00	20.83	81.11	191.80	-514.94	148.13	812.89	763.93	16.60	
8600.00	8230.21	13227.14	8980.00	21.75	79.35	192.06	-614.77	148.59	810.71	762.23	16.72	
8700.00	8230.68	13127.21	8980.00	22.78	77.59	192.33	-714.70	149.05	811.07	762.87	16.83	
8800.00	8231.14	13027.29	8980.00	23.90	75.83	192.61	-814.62	149.51	811.45	763.49	16.92	
8900.00	8231.60	12927.36	8980.00	25.10	74.07	192.88	-914.55	149.96	811.85	764.07	16.99	
9000.00	8232.06	12827.44	8980.00	26.37	72.32	193.15	-1014.47	150.42	812.27	764.64	17.05	
9100.00	8232.52	12727.51	8980.00	27.71	70.57	193.42	-1114.39	150.88	812.71	765.18	17.10	
9200.00	8232.99	12627.59	8980.00	29.09	68.83	193.69	-1214.32	151.33	813.16	765.70	17.13	
9300.00	8233.45	12527.66	8980.00	30.52	67.09	193.97	-1314.24	151.79	813.63	766.22	17.16	
9400.00	8233.91	12427.74	8980.00	31.99	65.36	194.24	-1414.16	152.25	814.13	766.72	17.17	
9500.00	8234.37	12327.81	8980.00	33.50	63.63	194.51	-1514.09	152.71	814.64	767.21	17.18	
9600.00	8234.84	12227.89	8980.00	35.03	61.90	194.78	-1614.01	153.16	815.16	767.70	17.17	
9700.00	8235.30	12127.97	8980.00	36.59	60.19	195.05	-1713.93	153.62	815.71	768.18	17.16	
9800.00	8235.76	12028.04	8980.00	38.17	58.48	195.32	-1813.86	154.08	816.27	768.66	17.14	
9900.00	8236.22	11928.12	8980.00	39.78	56.77	195.59	-1913.78	154.54	816.86	769.13	17.12	
10000.00	8236.69	11828.19	8980.00	41.40	55.08	195.86	-2013.70	154.99	817.46	769.61	17.08	
10100.00	8237.15	11728.27	8980.00	43.03	53.39	196.12	-2113.63	155.45	818.07	770.08	17.05	
10200.00	8237.61	11628.34	8980.00	44.68	51.71	196.39	-2213.55	155.91	818.71	770.56	17.00	
10300.00	8238.07	11528.42	8980.00	46.34	50.04	196.66	-2313.48	156.36	819.36	771.04	16.95	
10400.00	8238.54	11428.49	8980.00	48.02	48.39	196.93	-2413.40	156.82	820.04	771.52	16.90	
10500.00	8239.00	11328.57	8980.00	49.70	46.74	197.19	-2513.32	157.28	820.73	772.00	16.84	
10600.00	8239.46	11228.64	8980.00	51.39	45.11	197.46	-2613.25	157.74	821.43	772.48	16.78	
10700.00	8239.92	11128.72	8980.00	53.09	43.50	197.72	-2713.17	158.19	822.16	772.96	16.71	
10800.00	8240.39	11028.80	8980.00	54.80	41.90	197.99	-2813.09	158.65	822.90	773.44	16.64	
10900.00	8240.85	10928.87	8980.00	56.52	40.32	198.25	-2913.02	159.11	823.66	773.92	16.56	
11000.00	8241.31	10828.95	8980.00	58.24	38.77	198.52	-3012.94	159.57	824.44	774.40	16.48	
11100.00	8241.77	10729.02	8980.00	59.96	37.24	198.78	-3112.86	160.02	825.24	774.88	16.39	
11200.00	8242.24	10629.10	8980.00	61.69	35.73	199.05	-3212.79	160.48	826.05	775.36	16.29	
11300.00	8242.70	10529.17	8980.00	63.43	34.26	199.31	-3312.71	160.94	826.88	775.82	16.20	
11400.00	8243.16	10429.25	8980.00	65.17	32.83	199.57	-3412.63	161.40	827.73	776.29	16.09	
11500.00	8243.62	10329.32	8980.00	66.92	31.43	199.83	-3512.56	161.85	828.60	776.74	15.98	
11600.00	8244.09	10229.40	8980.00	68.67	30.08	200.09	-3612.48	162.31	829.48	777.18	15.86	
11700.00	8244.55	10129.47	8980.00	70.42	28.78	200.35	-3712.40	162.77	830.38	777.60	15.73	
11800.00	8245.01	10029.55	8980.00	72.17	27.54	200.61	-3812.33	163.22	831.29	778.01	15.60	



Weatherford International, Inc.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co. NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011 Time: 12:27:55
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0

Page: 9

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
11900.00	8245.47	9929.62	8980.00	73.93	26.37	200.87	-3912.25	163.68	832.23	778.39	15.46	
12000.00	8245.94	9829.70	8980.00	75.69	25.28	201.13	-4012.18	164.14	833.18	778.75	15.31	
12100.00	8246.40	8236.78	8231.39	77.45	18.33	95.85	-4899.86	-404.18	830.07	734.64	8.70	
12200.00	8246.86	8245.91	8239.88	79.22	18.35	97.97	-4900.65	-400.90	734.81	637.90	7.58	
12300.00	8247.32	8255.69	8248.91	80.99	18.37	100.29	-4901.53	-397.26	640.88	542.64	6.52	
12400.00	8247.79	8266.18	8258.54	82.76	18.39	102.81	-4902.52	-393.20	548.93	449.57	5.52	
12500.00	8248.25	8277.47	8268.82	84.53	18.42	105.55	-4903.61	-388.67	460.16	359.93	4.59	
12600.00	8248.71	8289.63	8279.80	86.30	18.45	108.55	-4904.84	-383.59	376.77	276.03	3.74	
12700.00	8249.17	8302.76	8291.54	88.08	18.48	111.82	-4906.23	-377.87	303.20	202.45	3.01	
12800.00	8249.64	8316.97	8304.10	89.86	18.52	115.38	-4907.79	-371.43	248.28	148.21	2.48	
12878.77	8250.00	8329.00	8314.62	91.26	18.55	118.41	-4909.16	-365.75	227.28	128.22	2.29	

Site: Cotton Draw Unit #152H
Well: Cotton Draw Unit #152H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
0.00	0.00	41.50	41.50	0.00	0.03	357.91	5225.96	-190.35	5229.43			No Data
100.00	100.00	141.50	141.50	0.08	0.18	357.91	5225.96	-190.35	5229.43	5229.16	19970.89	
200.00	200.00	241.50	241.50	0.31	0.40	357.91	5225.96	-190.35	5229.43	5228.71	7351.05	
300.00	300.00	341.50	341.50	0.53	0.63	357.91	5225.96	-190.35	5229.43	5228.26	4504.57	
400.00	400.00	441.50	441.50	0.76	0.85	357.91	5225.96	-190.35	5229.43	5227.82	3247.19	
500.00	500.00	541.50	541.50	0.98	1.08	357.91	5225.96	-190.35	5229.43	5227.37	2538.58	
600.00	600.00	641.50	641.50	1.21	1.30	357.91	5225.96	-190.35	5229.43	5226.92	2083.84	
700.00	700.00	741.50	741.50	1.43	1.53	357.91	5225.96	-190.35	5229.43	5226.47	1767.27	
800.00	800.00	841.50	841.50	1.66	1.75	357.91	5225.96	-190.35	5229.43	5226.02	1534.20	
900.00	900.00	941.50	941.50	1.88	1.98	357.91	5225.96	-190.35	5229.43	5225.57	1355.44	
1000.00	1000.00	1041.50	1041.50	2.11	2.20	357.91	5225.96	-190.35	5229.43	5225.12	1213.99	
1100.00	1100.00	1141.50	1141.50	2.33	2.43	357.91	5225.96	-190.35	5229.43	5224.67	1099.27	
1200.00	1200.00	1241.50	1241.50	2.56	2.65	357.91	5225.96	-190.35	5229.43	5224.22	1004.36	
1300.00	1300.00	1341.50	1341.50	2.78	2.87	357.91	5225.96	-190.35	5229.43	5223.77	924.54	
1400.00	1400.00	1441.50	1441.50	3.01	3.10	357.91	5225.96	-190.35	5229.43	5223.32	856.47	
1500.00	1500.00	1541.50	1541.50	3.23	3.32	357.91	5225.96	-190.35	5229.43	5222.87	797.74	
1600.00	1600.00	1641.50	1641.50	3.46	3.55	357.91	5225.96	-190.35	5229.43	5222.42	746.55	
1700.00	1700.00	1741.50	1741.50	3.68	3.77	357.91	5225.96	-190.35	5229.43	5221.97	701.53	
1800.00	1800.00	1841.50	1841.50	3.91	4.00	357.91	5225.96	-190.35	5229.43	5221.52	661.63	
1900.00	1900.00	1941.50	1941.50	4.13	4.22	357.91	5225.96	-190.35	5229.43	5221.07	626.02	
2000.00	2000.00	2041.50	2041.50	4.35	4.45	357.91	5225.96	-190.35	5229.43	5220.62	594.05	
2100.00	2100.00	2141.50	2141.50	4.58	4.67	357.91	5225.96	-190.35	5229.43	5220.17	565.19	
2200.00	2200.00	2241.50	2241.50	4.80	4.90	357.91	5225.96	-190.35	5229.43	5219.72	539.00	
2300.00	2300.00	2341.50	2341.50	5.03	5.12	357.91	5225.96	-190.35	5229.43	5219.27	515.14	
2400.00	2400.00	2441.50	2441.50	5.25	5.35	357.91	5225.96	-190.35	5229.43	5218.82	493.29	
2500.00	2500.00	2541.50	2541.50	5.48	5.57	357.91	5225.96	-190.35	5229.43	5218.37	473.22	
2600.00	2600.00	2641.50	2641.50	5.70	5.80	357.91	5225.96	-190.35	5229.43	5217.93	454.73	
2700.00	2700.00	2741.50	2741.50	5.93	6.02	357.91	5225.96	-190.35	5229.43	5217.48	437.62	
2800.00	2800.00	2841.50	2841.50	6.15	6.25	357.91	5225.96	-190.35	5229.43	5217.03	421.75	
2900.00	2900.00	2941.50	2941.50	6.38	6.47	357.91	5225.96	-190.35	5229.43	5216.58	407.00	
3000.00	3000.00	3041.50	3041.50	6.60	6.70	357.91	5225.96	-190.35	5229.43	5216.13	393.24	
3100.00	3100.00	12846.88	8267.00	6.83	90.49	335.53	400.17	-182.14	5144.32	5101.50	120.13	
3200.00	3200.00	12846.88	8267.00	7.05	90.49	335.53	400.17	-182.14	5044.70	5001.64	117.18	
3300.00	3300.00	12846.88	8267.00	7.28	90.49	335.53	400.17	-182.14	4945.08	4901.80	114.25	



Weatherford International, Inc.

Anticollision Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H
Reference Well: #160H
Reference Wellpath: 1

Date: 1/18/2011 Time: 12:27:55
Co-ordinate(NE) Reference: Well: #160H, Grid North
Vertical (TVD) Reference: SITE 3488.0

Page: 10

Db: Sybase

Site: Cotton Draw Unit #152H
Well: Cotton Draw Unit #152H
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		
3400.00	3400.00	12846.88	8267.00	7.50	90.49	335.53	400.17	-182.14	4845.49	4801.98	111.36	
3500.00	3500.00	12846.88	8267.00	7.73	90.49	335.53	400.17	-182.14	4745.91	4702.17	108.50	
3600.00	3600.00	12846.88	8267.00	7.95	90.49	335.53	400.17	-182.14	4646.35	4602.38	105.66	
3700.00	3700.00	12846.88	8267.00	8.18	90.49	335.53	400.17	-182.14	4546.81	4502.60	102.86	
3800.00	3800.00	12846.88	8267.00	8.40	90.49	335.53	400.17	-182.14	4447.29	4402.85	100.08	
3900.00	3900.00	12846.88	8267.00	8.63	90.49	335.53	400.17	-182.14	4347.79	4303.12	97.33	
4000.00	4000.00	12846.88	8267.00	8.85	90.49	335.53	400.17	-182.14	4248.31	4203.41	94.61	
4100.00	4100.00	12846.88	8267.00	9.07	90.49	335.53	400.17	-182.14	4148.86	4103.73	91.92	
4200.00	4200.00	12846.88	8267.00	9.30	90.49	335.53	400.17	-182.14	4049.44	4004.07	89.25	
4300.00	4300.00	12846.88	8267.00	9.52	90.49	335.53	400.17	-182.14	3950.05	3904.44	86.62	
4400.00	4400.00	12846.88	8267.00	9.75	90.49	335.53	400.17	-182.14	3850.68	3804.84	84.00	
4500.00	4500.00	12846.88	8267.00	9.97	90.49	335.53	400.17	-182.14	3751.35	3705.28	81.42	
4600.00	4600.00	12846.88	8267.00	10.20	90.49	335.53	400.17	-182.14	3652.06	3605.75	78.85	
4700.00	4700.00	12846.88	8267.00	10.42	90.49	335.53	400.17	-182.14	3552.81	3506.26	76.32	
4800.00	4800.00	12846.88	8267.00	10.65	90.49	335.53	400.17	-182.14	3453.60	3406.81	73.81	
4900.00	4900.00	12846.88	8267.00	10.87	90.49	335.53	400.17	-182.14	3354.44	3307.41	71.32	
5000.00	5000.00	12846.88	8267.00	11.10	90.49	335.53	400.17	-182.14	3255.33	3208.05	68.86	
5100.00	5100.00	12846.88	8267.00	11.32	90.49	335.53	400.17	-182.14	3156.27	3108.75	66.42	
5200.00	5200.00	12846.88	8267.00	11.55	90.49	335.53	400.17	-182.14	3057.28	3009.51	64.00	
5300.00	5300.00	12846.88	8267.00	11.77	90.49	335.53	400.17	-182.14	2958.35	2910.34	61.61	
5400.00	5400.00	12846.88	8267.00	12.00	90.49	335.53	400.17	-182.14	2859.50	2811.24	59.24	
5500.00	5500.00	12846.88	8267.00	12.22	90.49	335.53	400.17	-182.14	2760.74	2712.21	56.90	
5600.00	5600.00	12846.88	8267.00	12.45	90.49	335.53	400.17	-182.14	2662.06	2613.28	54.57	
5700.00	5700.00	12846.88	8267.00	12.67	90.49	335.53	400.17	-182.14	2563.49	2514.45	52.27	
5800.00	5800.00	12846.88	8267.00	12.90	90.49	335.53	400.17	-182.14	2465.03	2415.72	49.99	
5900.00	5900.00	12846.88	8267.00	13.12	90.49	335.53	400.17	-182.14	2366.70	2317.12	47.74	
6000.00	6000.00	12846.88	8267.00	13.35	90.49	335.53	400.17	-182.14	2268.52	2218.66	45.50	
6100.00	6100.00	12846.88	8267.00	13.57	90.49	335.53	400.17	-182.14	2170.50	2120.36	43.29	
6200.00	6200.00	12846.88	8267.00	13.80	90.49	335.53	400.17	-182.14	2072.67	2022.24	41.10	
6300.00	6300.00	12846.88	8267.00	14.02	90.49	335.53	400.17	-182.14	1975.06	1924.32	38.93	
6400.00	6400.00	12846.88	8267.00	14.24	90.49	335.53	400.17	-182.14	1877.70	1826.65	36.78	
6500.00	6500.00	12846.88	8267.00	14.47	90.49	335.53	400.17	-182.14	1780.64	1729.25	34.65	
6600.00	6600.00	12846.88	8267.00	14.69	90.49	335.53	400.17	-182.14	1683.91	1632.17	32.55	
6700.00	6700.00	12846.88	8267.00	14.92	90.49	335.53	400.17	-182.14	1587.60	1535.48	30.46	
6800.00	6800.00	12846.88	8267.00	15.14	90.49	335.53	400.17	-182.14	1491.76	1439.24	28.40	
6900.00	6900.00	12846.88	8267.00	15.37	90.49	335.53	400.17	-182.14	1396.52	1343.54	26.36	
7000.00	7000.00	12846.88	8267.00	15.59	90.49	335.53	400.17	-182.14	1301.98	1248.50	24.34	
7100.00	7100.00	12846.88	8267.00	15.82	90.49	335.53	400.17	-182.14	1208.33	1154.27	22.35	
7200.00	7200.00	12846.88	8267.00	16.04	90.49	335.53	400.17	-182.14	1115.78	1061.04	20.38	
7300.00	7300.00	12846.88	8267.00	16.27	90.49	335.53	400.17	-182.14	1024.63	969.07	18.44	
7400.00	7400.00	12846.88	8267.00	16.49	90.49	335.53	400.17	-182.14	935.29	878.72	16.53	
7500.00	7500.00	12846.88	8267.00	16.72	90.49	335.53	400.17	-182.14	848.33	790.45	14.66	
7600.00	7600.00	12846.88	8267.00	16.94	90.49	335.53	400.17	-182.14	764.57	704.91	12.82	
7700.00	7699.96	12846.88	8267.00	17.17	90.49	155.72	400.17	-182.14	686.13	624.01	11.04	
7800.00	7798.52	12846.88	8267.00	17.40	90.49	158.79	400.17	-182.14	624.43	559.01	9.55	
7900.00	7892.78	12846.88	8267.00	17.65	90.49	160.15	400.17	-182.14	588.68	518.69	8.41	
8000.00	7979.89	12846.88	8267.00	17.94	90.49	160.29	400.17	-182.14	584.81	508.34	7.65	
8100.00	8057.18	12846.88	8267.00	18.29	90.49	159.23	400.17	-182.14	613.53	528.55	7.22	
8200.00	8122.31	12846.88	8267.00	18.74	90.49	156.63	400.17	-182.14	669.89	575.73	7.11	
8300.00	8173.31	12846.88	8267.00	19.31	90.49	151.38	400.17	-182.14	746.19	645.00	7.37	
8400.00	8208.62	12846.88	8267.00	20.01	90.49	140.34	400.17	-182.14	835.03	729.61	7.92	



Weatherford International, Inc.

Anticollision Report

**Weatherford®**

Company: Devon Energy Date: 1/18/2011 Time: 12:27:55 Page: 11
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #160H Co-ordinate(NE) Reference: Well: #160H, Grid North
Reference Well: #160H Vertical (TVD) Reference: SITE 3488.0
Reference Wellpath: 1 Db: Sybase

Site: Cotton Draw Unit #152H
Well: Cotton Draw Unit #152H
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		
8500.00	8227.17	12846.88	8267.00	20.83	90.49	114.41	400.17	-182.14	930.55	820.62	8.46	
8600.00	8230.21	12846.88	8267.00	21.75	90.49	89.99	400.17	-182.14	1028.45	916.24	9.17	
8700.00	8230.68	12846.88	8267.00	22.78	90.49	89.99	400.17	-182.14	1126.78	1013.56	9.95	
8800.00	8231.14	12846.88	8267.00	23.90	90.49	89.99	400.17	-182.14	1225.39	1111.05	10.72	
8900.00	8231.60	12846.88	8267.00	25.10	90.49	89.99	400.17	-182.14	1324.20	1208.67	11.46	
9000.00	8232.06	12846.88	8267.00	26.37	90.49	89.99	400.17	-182.14	1423.18	1306.40	12.19	
9100.00	8232.52	12846.88	8267.00	27.71	90.49	89.99	400.17	-182.14	1522.29	1404.19	12.89	
9200.00	8232.99	12846.88	8267.00	29.09	90.49	89.99	400.17	-182.14	1621.51	1502.04	13.57	
9300.00	8233.45	12846.88	8267.00	30.52	90.49	89.99	400.17	-182.14	1720.82	1599.95	14.24	
9400.00	8233.91	12846.88	8267.00	31.99	90.49	89.99	400.17	-182.14	1820.21	1697.89	14.88	
9500.00	8234.37	12846.88	8267.00	33.50	90.49	89.99	400.17	-182.14	1919.66	1795.86	15.51	
9600.00	8234.84	12846.88	8267.00	35.03	90.49	89.99	400.17	-182.14	2019.17	1893.87	16.11	
9700.00	8235.30	12846.88	8267.00	36.59	90.49	89.99	400.17	-182.14	2118.72	1991.89	16.71	
9800.00	8235.76	12846.88	8267.00	38.17	90.49	89.99	400.17	-182.14	2218.31	2089.95	17.28	
9900.00	8236.22	12846.88	8267.00	39.78	90.49	89.99	400.17	-182.14	2317.94	2188.02	17.84	
10000.00	8236.69	12846.88	8267.00	41.40	90.49	89.99	400.17	-182.14	2417.60	2286.11	18.39	
10100.00	8237.15	12846.88	8267.00	43.03	90.49	89.99	400.17	-182.14	2517.28	2384.22	18.92	
10200.00	8237.61	12846.88	8267.00	44.68	90.49	89.99	400.17	-182.14	2616.99	2482.35	19.44	
10300.00	8238.07	12846.88	8267.00	46.34	90.49	89.99	400.17	-182.14	2716.72	2580.50	19.94	
10400.00	8238.54	12846.88	8267.00	48.02	90.49	89.99	400.17	-182.14	2816.47	2678.67	20.44	
10500.00	8239.00	12846.88	8267.00	49.70	90.49	89.99	400.17	-182.14	2916.24	2776.87	20.92	
10600.00	8239.46	12846.88	8267.00	51.39	90.49	89.99	400.17	-182.14	3016.02	2875.08	21.40	
10700.00	8239.92	12846.88	8267.00	53.09	90.49	89.99	400.17	-182.14	3115.82	2973.32	21.87	
10800.00	8240.39	12846.88	8267.00	54.80	90.49	89.99	400.17	-182.14	3215.62	3071.60	22.33	
10900.00	8240.85	12846.88	8267.00	56.52	90.49	89.99	400.17	-182.14	3315.44	3169.90	22.78	
11000.00	8241.31	12846.88	8267.00	58.24	90.49	89.99	400.17	-182.14	3415.28	3268.24	23.23	
11100.00	8241.77	12846.88	8267.00	59.96	90.49	89.99	400.17	-182.14	3515.12	3366.63	23.67	
11200.00	8242.24	12846.88	8267.00	61.69	90.49	89.99	400.17	-182.14	3614.97	3465.08	24.12	
11300.00	8242.70	12846.88	8267.00	63.43	90.49	89.99	400.17	-182.14	3714.82	3563.58	24.56	
11400.00	8243.16	12846.88	8267.00	65.17	90.49	89.99	400.17	-182.14	3814.69	3662.17	25.01	
11500.00	8243.62	12846.88	8267.00	66.92	90.49	89.99	400.17	-182.14	3914.56	3760.85	25.47	
11600.00	8244.09	12846.88	8267.00	68.67	90.49	89.99	400.17	-182.14	4014.44	3859.66	25.94	
11700.00	8244.55	12846.88	8267.00	70.42	90.49	89.99	400.17	-182.14	4114.32	3958.60	26.42	
11800.00	8245.01	12846.88	8267.00	72.17	90.49	89.99	400.17	-182.14	4214.21	4057.74	26.93	
11900.00	8245.47	12846.88	8267.00	73.93	90.49	89.99	400.17	-182.14	4314.11	4157.11	27.48	
12000.00	8245.94	12846.88	8267.00	75.69	90.49	89.99	400.17	-182.14	4414.01	4256.78	28.07	
12100.00	8246.40	12846.88	8267.00	77.45	90.49	89.99	400.17	-182.14	4513.91	4356.83	28.74	
12200.00	8246.86	12846.88	8267.00	79.22	90.49	89.99	400.17	-182.14	4613.82	4457.35	29.49	
12300.00	8247.32	12846.88	8267.00	80.99	90.49	89.99	400.17	-182.14	4713.73	4558.48	30.36	
12400.00	8247.79	12846.88	8267.00	82.76	90.49	89.99	400.17	-182.14	4813.65	4660.35	31.40	
12500.00	8248.25	12846.88	8267.00	84.53	90.49	89.99	400.17	-182.14	4913.56	4763.09	32.65	
12600.00	8248.71	12846.88	8267.00	86.30	90.49	89.99	400.17	-182.14	5013.49	4866.77	34.17	
12700.00	8249.17	12846.88	8267.00	88.08	90.49	89.99	400.17	-182.14	5113.41	4971.30	35.98	
12800.00	8249.64	12846.88	8267.00	89.86	90.49	89.99	400.17	-182.14	5213.34	5076.24	38.03	
12878.77	8250.00	12846.88	8267.00	91.26	90.49	89.99	400.17	-182.14	5292.05	5158.59	39.65	

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

GeoDec v5.1.000

Report Date: January 18, 2011
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #160H
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 424623.070 USFT	Latitude 32.1660230 DEG
East/West 721783.070 USFT	Longitude -103.7501796 DEG
Grid Convergence: .31048859°	
Total Correction: +7.3138°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude = 32.16602° N	32° 9 min 57.683 sec	
Longitude = 103.75018° W	103° 45 min .647 sec	

Magnetic Declination =	7.6240°	[True North Offset]	
Local Gravity =	.9988 g		
Local Field Strength =	48550 nT	Magnetic Vector X =	23992 nT
Magnetic Dip =	60.0940°	Magnetic Vector Y =	3212 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42085 nT
Spud Date =	Oct 15, 2011	Magnetic Vector H =	24206 nT

Signed: _____

Date: _____