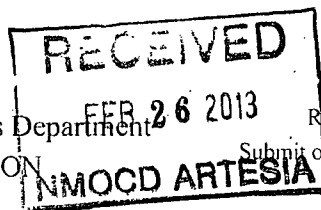


District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-71150	² Pool Code 96721	³ Pool Name Laguna Salado; Bone Spring
⁴ Property Code 30668	⁵ Property Name SPUD "16" STATE	⁶ Well Number 12H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 2960.8

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
I	16	23 S	29 E		1980	SOUTH	660	EAST	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
M	16	23 S	29 E		660	SOUTH	330	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

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.

S89°48'46"W 2640.91 FT NW CORNER SEC. 16 LAT. = 32.3124616°N LONG. = 103.9983011°W NMSP EAST (FT) N = 477567.85 E = 644840.01 900°10'38"W 2659.24 FT		S89°48'46"W 2640.91 FT NE CORNER SEC. 16 LAT. = 32.3124625°N LONG. = 103.9812081°W NMSP EAST (FT) N = 477584.90 E = 650120.63 900°29'39"W 2657.91 FT		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 leased 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. <i>Melanie Crawford</i> 2/19/13 Signature Date Melanie Crawford Printed Name melanie.crawford@devn.com E-mail Address
900°10'38"W 2659.24 FT SW CORNER SEC. 16 LAT. = 32.2978385°N LONG. = 103.9984042°W NMSP EAST (FT) N = 472247.83 E = 644824.77 900°10'38"W 2659.24 FT		900°29'39"W 2657.91 FT SE CORNER SEC. 16 LAT. = 32.2978522°N LONG. = 103.9812070°W NMSP EAST (FT) N = 472269.85 E = 650138.42 900°29'39"W 2657.91 FT		
SPUD "16" STATE #12H ELEV. = 2960.8' LAT. = 32.3032932°N (NAD83) LONG. = 103.9833095°W NMSP EAST (FT) N = 474247.08 E = 649482.33 BOTTOM OF HOLE LAT. = 32.2996532°N LONG. = 103.9973229°W NMSP EAST (FT) N = 472909.05 E = 645156.82 SURFACE LOCATION 660' 900°10'38"W 2659.24 FT				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. JANUARY 11, 2013 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: 06 FILMONT JARAMILLO, PLS 12797 SERIES NO. 12008
900°10'38"W 2659.24 FT 900°10'38"W 2659.24 FT 900°10'38"W 2659.24 FT				



Weatherford®

Drilling Services

Proposal



devon

SPUD 16 STATE #12H

EDDY COUNTY, NM

WELL FILE: **PLAN 2**

FEBRUARY 12, 2013

Weatherford International, Ltd.

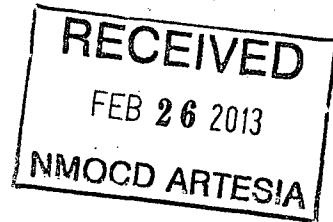
P.O. Box 61028

Midland, TX 79711 USA

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Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 2/12/2013 Time: 08:33:56 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Site: Spud 16 State #12 Vertical (TVD) Reference: SITE 2986.0
Well: Spud 16 State #12 Section (VS) Reference: Well (0.00N,0.00E,252.81Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #2 Date Composed: 2/12/2013
Principal: Yes Version: 1
Tied-to: From Surface

Site: Spud 16 State #12

Site Position: Northing: 474247.08 ft Latitude: 32 18 11.846 N
From: Map Easting: 649482.33 ft Longitude: 103 58 59.929 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 2961.00 ft Grid Convergence: 0.19 deg

Well: Spud 16 State #12 Slot Name:
Well Position: +N/-S 0.00 ft Northing: 474247.08 ft Latitude: 32 18 11.846 N
+E/-W 0.00 ft Easting: 649482.33 ft Longitude: 103 58 59.929 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 2986.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 5/15/2013 Above System Datum: Mean Sea Level
Field Strength: 48453 nT Declination: 7.55 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.14 deg
ft +E/-W Direction
deg
0.00 0.00 0.00 252.81

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5530.00	0.00	0.00	5530.00	0.00	0.00	0.00	0.00	0.00	0.00	
7433.31	57.10	133.70	7133.54	-602.73	630.79	3.00	3.00	0.00	0.00	
7591.54	57.10	133.70	7219.49	-694.51	726.84	0.00	0.00	0.00	0.00	
8755.33	91.20	269.76	7777.35	-1318.66	307.28	11.00	2.93	11.69	118.29	
9105.33	91.20	269.76	7770.00	-1320.12	-42.64	0.00	0.00	0.00	0.00	LP/Tgt
13389.19	91.20	269.76	7680.00	-1338.03	-4325.51	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
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	474247.08	649482.33	
5530.00	0.00	0.00	5530.00	0.00	0.00	0.00	0.00	474247.08	649482.33	Nudge
5600.00	2.10	133.70	5599.98	-0.89	0.93	-0.62	3.00	474246.19	649483.26	
5700.00	5.10	133.70	5699.78	-5.22	5.47	-3.68	3.00	474241.86	649487.80	
5800.00	8.10	133.70	5799.10	-13.16	13.78	-9.27	3.00	474233.92	649496.11	
5900.00	11.10	133.70	5897.69	-24.68	25.83	-17.38	3.00	474222.40	649508.16	
6000.00	14.10	133.70	5995.27	-39.75	41.60	-28.00	3.00	474207.33	649523.93	
6100.00	17.10	133.70	6091.58	-58.33	61.04	-41.08	3.00	474188.75	649543.37	
6200.00	20.10	133.70	6186.34	-80.36	84.10	-56.59	3.00	474166.72	649566.43	
6300.00	23.10	133.70	6279.31	-105.79	110.71	-74.50	3.00	474141.29	649593.04	
6400.00	26.10	133.70	6370.22	-134.54	140.81	-94.75	3.00	474112.54	649623.14	
6500.00	29.10	133.70	6458.83	-166.55	174.30	-117.29	3.00	474080.53	649656.63	
6600.00	32.10	133.70	6544.90	-201.71	211.10	-142.06	3.00	474045.37	649693.43	
6700.00	35.10	133.70	6628.18	-239.94	251.11	-168.98	3.00	474007.14	649733.44	
6800.00	38.10	133.70	6708.45	-281.12	294.21	-197.98	3.00	473965.96	649776.54	
6900.00	41.10	133.70	6785.49	-325.15	340.29	-228.99	3.00	473921.93	649822.62	
7000.00	44.10	133.70	6859.10	-371.91	389.22	-261.92	3.00	473875.17	649871.55	
7100.00	47.10	133.70	6929.05	-421.26	440.87	-296.68	3.00	473825.82	649923.20	
7200.00	50.10	133.70	6995.18	-473.08	495.10	-333.17	3.00	473774.00	649977.43	
7300.00	53.10	133.70	7057.29	-527.21	551.76	-371.30	3.00	473719.87	650034.09	



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spud 16 State #12
Well: Spud 16 State #12
Wellpath: 1

Date: 2/12/2013 Time: 08:33:56 Page: 2
Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0
Section (VS) Reference: Well (0.00N,0.00E,252.81Azi)
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
7400.00	56.10	133.70	7115.21	-583.52	610.68	-410.95	3.00	473663.56	650093.01	
7433.31	57.10	133.70	7133.54	-602.73	630.79	-424.48	3.00	473644.35	650113.12	Hold
7500.00	57.10	133.70	7169.77	-641.41	671.27	-451.72	0.00	473605.67	650153.60	
7591.54	57.10	133.70	7219.49	-694.51	726.84	-489.12	0.00	473552.57	650209.17	Build/Turn
7600.00	56.66	134.68	7224.11	-699.45	731.92	-492.51	11.00	473547.63	650214.25	
7650.00	54.24	140.68	7252.48	-729.85	759.65	-510.02	11.00	473517.23	650241.98	
7700.00	52.14	147.03	7282.46	-762.13	783.27	-523.04	11.00	473484.95	650265.60	
7750.00	50.40	153.72	7313.76	-795.98	802.56	-531.46	11.00	473451.10	650284.89	
7800.00	49.06	160.71	7346.10	-831.10	817.34	-535.20	11.00	473415.98	650299.67	
7850.00	48.15	167.94	7379.19	-867.17	827.47	-534.23	11.00	473379.91	650309.80	
7900.00	47.71	175.33	7412.72	-903.84	832.87	-528.55	11.00	473343.24	650315.20	
7950.00	47.75	182.76	7446.37	-940.79	833.49	-518.21	11.00	473306.29	650315.82	
8000.00	48.27	190.13	7479.85	-977.67	829.31	-503.32	11.00	473269.41	650311.64	
8050.00	49.25	197.33	7512.83	-1014.14	820.38	-484.01	11.00	473232.94	650302.71	
8100.00	50.66	204.28	7545.02	-1049.87	806.77	-460.45	11.00	473197.21	650289.10	
8150.00	52.46	210.92	7576.13	-1084.53	788.62	-432.87	11.00	473162.55	650270.95	
8200.00	54.62	217.21	7605.86	-1117.79	766.09	-401.52	11.00	473129.29	650248.42	
8250.00	57.09	223.15	7633.94	-1149.36	739.39	-366.68	11.00	473097.72	650221.72	
8300.00	59.82	228.75	7660.11	-1178.94	708.77	-328.68	11.00	473068.14	650191.10	
8350.00	62.77	234.04	7684.14	-1206.27	674.50	-287.87	11.00	473040.81	650156.83	
8400.00	65.92	239.05	7705.79	-1231.08	636.90	-244.61	11.00	473016.00	650119.23	
8450.00	69.22	243.81	7724.88	-1253.14	596.32	-199.32	11.00	472993.94	650078.65	
8500.00	72.64	248.37	7741.22	-1272.27	553.13	-152.41	11.00	472974.81	650035.46	
8550.00	76.17	252.75	7754.67	-1288.28	507.73	-104.31	11.00	472958.80	649990.06	
8600.00	79.77	257.01	7765.10	-1301.02	460.54	-55.46	11.00	472946.06	649942.87	
8650.00	83.42	261.16	7772.41	-1310.37	411.99	-6.32	11.00	472936.71	649894.32	
8700.00	87.11	265.26	7776.54	-1316.25	362.53	42.67	11.00	472930.83	649844.86	
8750.00	90.81	269.33	7777.45	-1318.61	312.61	91.06	11.00	472928.47	649794.94	
8755.33	91.20	269.76	7777.35	-1318.66	307.28	96.16	11.00	472928.42	649789.61	LP/Hold
8800.00	91.20	269.76	7776.41	-1318.84	262.62	138.88	0.00	472928.24	649744.95	
8900.00	91.20	269.76	7774.31	-1319.26	162.65	234.52	0.00	472927.82	649644.98	
9000.00	91.20	269.76	7772.21	-1319.68	62.67	330.15	0.00	472927.40	649545.00	
9105.33	91.20	269.76	7770.00	-1320.12	-42.64	430.89	0.00	472926.96	649439.69	LP/Tgt
9200.00	91.20	269.76	7768.01	-1320.52	-137.29	521.42	0.00	472926.56	649345.04	
9300.00	91.20	269.76	7765.91	-1320.93	-237.26	617.05	0.00	472926.15	649245.07	
9400.00	91.20	269.76	7763.81	-1321.35	-337.24	712.69	0.00	472925.73	649145.09	
9500.00	91.20	269.76	7761.71	-1321.77	-437.22	808.32	0.00	472925.31	649045.11	
9600.00	91.20	269.76	7759.61	-1322.19	-537.19	903.96	0.00	472924.89	648945.14	
9700.00	91.20	269.76	7757.51	-1322.61	-637.17	999.59	0.00	472924.47	648845.16	
9800.00	91.20	269.76	7755.41	-1323.02	-737.15	1095.23	0.00	472924.06	648745.18	
9900.00	91.20	269.76	7753.30	-1323.44	-837.12	1190.86	0.00	472923.64	648645.21	
10000.00	91.20	269.76	7751.20	-1323.86	-937.10	1286.50	0.00	472923.22	648545.23	
10100.00	91.20	269.76	7749.10	-1324.28	-1037.08	1382.13	0.00	472922.80	648445.25	
10200.00	91.20	269.76	7747.00	-1324.70	-1137.06	1477.77	0.00	472922.38	648345.27	
10300.00	91.20	269.76	7744.90	-1325.11	-1237.03	1573.40	0.00	472921.97	648245.30	
10400.00	91.20	269.76	7742.80	-1325.53	-1337.01	1669.04	0.00	472921.55	648145.32	
10500.00	91.20	269.76	7740.70	-1325.95	-1436.99	1764.67	0.00	472921.13	648045.34	
10600.00	91.20	269.76	7738.60	-1326.37	-1536.96	1860.30	0.00	472920.71	647945.37	
10700.00	91.20	269.76	7736.50	-1326.79	-1636.94	1955.94	0.00	472920.29	647845.39	
10800.00	91.20	269.76	7734.40	-1327.21	-1736.92	2051.57	0.00	472919.87	647745.41	
10900.00	91.20	269.76	7732.30	-1327.62	-1836.90	2147.21	0.00	472919.46	647645.43	
11000.00	91.20	269.76	7730.19	-1328.04	-1936.87	2242.84	0.00	472919.04	647545.46	
11100.00	91.20	269.76	7728.09	-1328.46	-2036.85	2338.48	0.00	472918.62	647445.48	



Weatherford

Wft Plan Report X Y's.



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spud 16 State #12
Well: Spud 16 State #12
Wellpath: 1

Date: 2/12/2013 Time: 08:33:56 Page: 3
Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0
Section (VS) Reference: Well (0.00N,0.00E,252.81Azi)
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	Comments
11200.00	91.20	269.76	7725.99	-1328.88	-2136.83	2434.11	0.00	472918.20	647345.50	
11300.00	91.20	269.76	7723.89	-1329.30	-2236.80	2529.75	0.00	472917.78	647245.53	
11400.00	91.20	269.76	7721.79	-1329.71	-2336.78	2625.38	0.00	472917.37	647145.55	
11500.00	91.20	269.76	7719.69	-1330.13	-2436.76	2721.02	0.00	472916.95	647045.57	
11600.00	91.20	269.76	7717.59	-1330.55	-2536.73	2816.65	0.00	472916.53	646945.60	
11700.00	91.20	269.76	7715.49	-1330.97	-2636.71	2912.29	0.00	472916.11	646845.62	
11800.00	91.20	269.76	7713.39	-1331.39	-2736.69	3007.92	0.00	472915.69	646745.64	
11900.00	91.20	269.76	7711.29	-1331.80	-2836.67	3103.56	0.00	472915.28	646645.66	
12000.00	91.20	269.76	7709.19	-1332.22	-2936.64	3199.19	0.00	472914.86	646545.69	
12100.00	91.20	269.76	7707.08	-1332.64	-3036.62	3294.82	0.00	472914.44	646445.71	
12200.00	91.20	269.76	7704.98	-1333.06	-3136.60	3390.46	0.00	472914.02	646345.73	
12300.00	91.20	269.76	7702.88	-1333.48	-3236.57	3486.09	0.00	472913.60	646245.76	
12400.00	91.20	269.76	7700.78	-1333.89	-3336.55	3581.73	0.00	472913.19	646145.78	
12500.00	91.20	269.76	7698.68	-1334.31	-3436.53	3677.36	0.00	472912.77	646045.80	
12600.00	91.20	269.76	7696.58	-1334.73	-3536.51	3773.00	0.00	472912.35	645945.82	
12700.00	91.20	269.76	7694.48	-1335.15	-3636.48	3868.63	0.00	472911.93	645845.85	
12800.00	91.20	269.76	7692.38	-1335.57	-3736.46	3964.27	0.00	472911.51	645745.87	
12900.00	91.20	269.76	7690.28	-1335.98	-3836.44	4059.90	0.00	472911.10	645645.89	
13000.00	91.20	269.76	7688.18	-1336.40	-3936.41	4155.54	0.00	472910.68	645545.92	
13100.00	91.20	269.76	7686.08	-1336.82	-4036.39	4251.17	0.00	472910.26	645445.94	
13200.00	91.20	269.76	7683.97	-1337.24	-4136.37	4346.81	0.00	472909.84	645345.96	
13300.00	91.20	269.76	7681.87	-1337.66	-4236.34	4442.44	0.00	472909.42	645245.99	
13389.19	91.20	269.76	7680.00	-1338.03	-4325.51	4527.73	0.00	472909.05	645156.82	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		7680.00	-1338.03	-4325.51	472909.05	645156.82	32 17 58.742 N	103 59 50.377 W
LP/Tgt		7770.00	-1320.12	-42.64	472926.96	649439.69	32 17 58.784 N	103 59 0.476 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5530.00	5530.00	Nudge
7433.31	7133.54	Hold
7591.54	7219.49	Build/Turn
8755.33	7777.35	LP/Hold
9105.33	7770.00	LP/Tgt/Hold
13389.18	7680.00	PBHL



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/12/2013 Time: 08:46:28 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12 Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Reference Well: Spud 16 State #12 Vertical (TVD) Reference: SITE 2986.0
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria Reference: Plan: Plan #2
Interpolation Method MD + Stations Interval: 100.00 ft Error Model: ISCWSA Ellipse
Depth Range: 0.00 to 13389.19 ft Scan Method: Closest Approach 3D
Maximum Radius 40000.00 ft Error Surface: Ellipse

Plan: Plan #2 Date Composed: 2/12/2013
Principal: Yes Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Warning
Spud 16 State #10	Spud 16 State #10H	1 V0 Plan: Plan #2 V1	5400.00	5399.39	100.93	76.95	4.21
Spud 16 State #11H	Spud 16 State #11H	1 V0 Plan: Plan #2 V1	5530.00	5529.99	50.00	25.44	2.04
Spud 16 State #9H	Spud 16 State #9H	1 V1	10600.00	7224.24	900.53	844.51	16.08

Site: Spud 16 State #10
Well: Spud 16 State #10H
Wellpath: 1 V0 Plan: Plan #2 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 Edge Distance ft	Separation Distance ft	Warning
0.00	0.00	2.00	2.00	0.00	0.00	0.13	100.00	0.22	100.00	100.00	59321.09
100.00	100.00	102.00	102.00	0.08	0.09	0.13	100.00	0.22	100.00	99.83	577.80
200.00	200.00	202.00	202.00	0.31	0.31	0.13	100.00	0.22	100.00	99.38	160.62
300.00	300.00	302.00	302.00	0.53	0.54	0.13	100.00	0.22	100.00	98.93	93.27
400.00	400.00	402.00	402.00	0.76	0.76	0.13	100.00	0.22	100.00	98.48	65.72
500.00	500.00	502.00	502.00	0.98	0.99	0.13	100.00	0.22	100.00	98.03	50.73
600.00	600.00	602.00	602.00	1.21	1.21	0.13	100.00	0.22	100.00	97.58	41.31
700.00	700.00	702.00	702.00	1.43	1.44	0.13	100.00	0.22	100.00	97.13	34.84
800.00	800.00	802.00	802.00	1.66	1.66	0.13	100.00	0.22	100.00	96.68	30.12
900.00	900.00	902.00	902.00	1.88	1.89	0.13	100.00	0.22	100.00	96.23	26.53
1000.00	1000.00	1002.00	1002.00	2.11	2.11	0.13	100.00	0.22	100.00	95.78	23.70
1100.00	1100.00	1102.00	1102.00	2.33	2.34	0.13	100.00	0.22	100.00	95.33	21.42
1200.00	1200.00	1202.00	1202.00	2.56	2.56	0.13	100.00	0.22	100.00	94.88	19.54
1300.00	1300.00	1302.00	1302.00	2.78	2.79	0.13	100.00	0.22	100.00	94.43	17.96
1400.00	1400.00	1402.00	1402.00	3.01	3.01	0.13	100.00	0.22	100.00	93.98	16.62
1500.00	1500.00	1502.00	1502.00	3.23	3.24	0.13	100.00	0.22	100.00	93.53	15.46
1600.00	1600.00	1602.00	1602.00	3.46	3.46	0.13	100.00	0.22	100.00	93.08	14.46
1700.00	1700.00	1702.00	1702.00	3.68	3.69	0.13	100.00	0.22	100.00	92.63	13.58
1800.00	1800.00	1802.00	1802.00	3.91	3.91	0.13	100.00	0.22	100.00	92.19	12.80
1900.00	1900.00	1902.00	1902.00	4.13	4.13	0.13	100.00	0.22	100.00	91.74	12.10
2000.00	2000.00	2002.00	2002.00	4.35	4.36	0.13	100.00	0.22	100.00	91.29	11.48
2100.00	2100.00	2102.00	2102.00	4.58	4.58	0.13	100.00	0.22	100.00	90.84	10.91
2200.00	2200.00	2202.00	2202.00	4.80	4.81	0.13	100.00	0.22	100.00	90.39	10.40
2300.00	2300.00	2302.00	2302.00	5.03	5.03	0.13	100.00	0.22	100.00	89.94	9.94
2400.00	2400.00	2402.00	2402.00	5.25	5.26	0.13	100.00	0.22	100.00	89.49	9.51
2500.00	2500.00	2502.00	2502.00	5.48	5.48	0.13	100.00	0.22	100.00	89.04	9.12
2600.00	2600.00	2602.00	2602.00	5.70	5.71	0.13	100.00	0.22	100.00	88.59	8.76
2700.00	2700.00	2702.00	2702.00	5.93	5.93	0.13	100.00	0.22	100.00	88.14	8.43
2800.00	2800.00	2802.00	2802.00	6.15	6.16	0.13	100.00	0.22	100.00	87.69	8.12
2900.00	2900.00	2902.00	2902.00	6.38	6.38	0.13	100.00	0.22	100.00	87.24	7.84
3000.00	3000.00	3002.00	3002.00	6.60	6.61	0.13	100.00	0.22	100.00	86.79	7.57
3100.00	3100.00	3102.00	3102.00	6.83	6.83	0.13	100.00	0.22	100.00	86.34	7.32
3200.00	3200.00	3202.00	3202.00	7.05	7.06	0.13	100.00	0.22	100.00	85.89	7.09
3300.00	3300.00	3302.00	3302.00	7.28	7.28	0.13	100.00	0.22	100.00	85.44	6.87
3400.00	3400.00	3402.00	3402.00	7.50	7.51	0.13	100.00	0.22	100.00	84.99	6.66
3500.00	3500.00	3502.00	3502.00	7.73	7.73	0.13	100.00	0.22	100.00	84.54	6.47



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013 Time: 08:46:28 Page: 2
Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #10
Well: Spud 16 State #10H
Wellpath: 1 V0 Plan: Plan #2 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 Edge Distance ft	Separation Distance ft	Factor	Warning
3600.00	3600.00	3602.00	3602.00	7.95	7.96	0.13	100.00	0.22	100.00	84.09	6.29	
3700.00	3700.00	3702.00	3702.00	8.18	8.18	0.13	100.00	0.22	100.00	83.64	6.11	
3800.00	3800.00	3802.00	3802.00	8.40	8.41	0.13	100.00	0.22	100.00	83.19	5.95	
3900.00	3900.00	3902.00	3902.00	8.63	8.63	0.13	100.00	0.22	100.00	82.74	5.80	
4000.00	4000.00	4002.00	4002.00	8.85	8.85	0.13	100.00	0.22	100.00	82.30	5.65	
4100.00	4100.00	4102.00	4102.00	9.07	9.08	0.13	100.00	0.22	100.00	81.85	5.51	
4200.00	4200.00	4202.00	4202.00	9.30	9.30	0.13	100.00	0.22	100.00	81.40	5.38	
4300.00	4300.00	4302.00	4302.00	9.52	9.53	0.13	100.00	0.22	100.00	80.95	5.25	
4400.00	4400.00	4402.00	4402.00	9.75	9.75	0.13	100.00	0.22	100.00	80.50	5.13	
4500.00	4500.00	4502.00	4502.00	9.97	9.98	0.13	100.00	0.22	100.00	80.05	5.01	
4600.00	4600.00	4602.00	4602.00	10.20	10.20	0.13	100.00	0.22	100.00	79.60	4.90	
4700.00	4700.00	4702.00	4702.00	10.42	10.43	0.13	100.00	0.22	100.00	79.15	4.80	
4800.00	4800.00	4802.00	4802.00	10.65	10.65	0.13	100.00	0.22	100.00	78.70	4.69	
4900.00	4900.00	4902.00	4902.00	10.87	10.88	0.13	100.00	0.22	100.00	78.25	4.60	
5000.00	5000.00	5002.00	5002.00	11.10	11.10	0.13	100.00	0.22	100.00	77.80	4.50	
5100.00	5100.00	5102.00	5102.00	11.32	11.33	0.13	100.00	0.22	100.00	77.35	4.42	
5200.00	5200.00	5202.00	5202.00	11.55	11.55	0.13	100.00	0.22	100.00	76.90	4.33	
5300.00	5300.00	5302.00	5302.00	11.77	11.78	0.13	100.00	0.22	100.00	76.45	4.25	
5400.00	5400.00	5399.39	5399.37	12.00	11.99	0.63	100.89	1.11	100.93	76.95	4.21	
5500.00	5500.00	5495.41	5495.21	12.22	12.20	2.87	105.08	5.27	105.43	81.03	4.32	
5530.00	5530.00	5524.08	5523.75	12.29	12.26	3.83	106.99	7.17	107.55	83.02	4.39	
5600.00	5599.98	5590.60	5589.79	12.43	12.41	232.44	112.59	12.73	114.74	89.96	4.63	
5700.00	5699.78	5684.34	5682.31	12.61	12.62	234.95	123.25	23.32	131.16	106.06	5.23	
5800.00	5799.10	5775.99	5771.95	12.79	12.83	236.59	136.77	36.76	154.46	129.06	6.08	
5900.00	5897.69	5865.00	5858.03	12.98	13.05	237.59	152.80	52.70	184.28	158.59	7.17	
6000.00	5995.27	5950.86	5939.98	13.18	13.29	238.23	170.95	70.73	220.28	194.30	8.48	
6100.00	6091.58	6033.19	6017.41	13.41	13.53	238.72	190.79	90.45	262.15	235.86	9.97	
6200.00	6186.34	6111.71	6090.06	13.67	13.79	239.19	211.89	111.43	309.54	282.92	11.63	
6300.00	6279.31	6186.19	6157.80	13.97	14.06	239.74	233.86	133.26	362.11	335.11	13.41	
6400.00	6370.22	6256.52	6220.60	14.33	14.36	240.42	256.30	155.56	419.48	392.05	15.29	
6500.00	6458.83	6322.64	6278.55	14.76	14.66	241.28	278.89	178.01	481.30	453.35	17.22	
6600.00	6544.90	6384.56	6331.78	15.26	14.97	242.34	301.31	200.29	547.19	518.64	19.16	
6700.00	6628.18	6442.32	6380.49	15.87	15.29	243.64	323.32	222.17	616.80	587.51	21.06	
6800.00	6708.45	6496.01	6424.91	16.57	15.60	245.19	344.71	243.43	689.77	659.61	22.87	
6900.00	6785.49	6545.74	6465.28	17.39	15.93	247.03	365.31	263.90	765.76	734.58	24.55	
7000.00	6859.10	6591.65	6501.87	18.33	16.24	249.17	384.98	283.45	844.46	812.08	26.08	
7100.00	6929.05	6633.88	6534.92	19.40	16.55	251.64	403.62	301.97	925.55	891.79	27.42	
7200.00	6995.18	6672.56	6564.69	20.59	16.85	254.47	421.14	319.39	1008.74	973.44	28.58	
7300.00	7057.29	6707.85	6591.40	21.91	17.13	257.67	437.50	335.65	1093.75	1056.74	29.56	
7400.00	7115.21	6739.89	6615.28	23.35	17.41	261.27	452.65	350.70	1180.32	1141.46	30.37	
7433.31	7133.54	6749.87	6622.64	23.85	17.50	262.55	457.43	355.45	1209.47	1169.96	30.61	
7500.00	7169.77	6769.32	6636.89	24.89	17.67	261.59	466.82	364.78	1268.15	1227.48	31.18	
7591.54	7219.49	6800.00	6659.10	26.35	17.93	260.19	481.84	379.71	1349.29	1306.99	31.90	
7600.00	7224.11	6800.00	6659.10	26.48	17.93	258.51	481.84	379.71	1356.83	1314.49	32.04	
7650.00	7252.48	6811.02	6666.99	27.07	18.04	246.23	487.29	385.13	1402.44	1360.33	33.31	
7700.00	7282.46	6822.75	6675.33	27.48	18.16	230.06	493.13	390.93	1449.35	1408.78	35.72	
7750.00	7313.76	6832.88	6682.51	27.68	18.26	209.64	498.21	395.98	1497.08	1459.70	40.05	
7800.00	7346.10	6841.34	6688.47	27.68	18.34	186.42	502.47	400.21	1545.16	1511.58	46.01	
7850.00	7379.19	6848.09	6693.20	27.46	18.40	163.90	505.88	403.60	1593.19	1561.21	49.82	
7900.00	7412.72	6853.09	6696.70	27.04	18.45	144.76	508.41	406.12	1640.77	1607.82	49.79	
7950.00	7446.37	6856.36	6698.99	26.42	18.49	129.33	510.07	407.77	1687.55	1653.07	48.95	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013

Time: 08:46:28

Page: 3

Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #10
Well: Spud 16 State #10H
Wellpath: 1 V0 Plan: Plan #2 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 Edge Distance ft	Separation Distance ft	Factor	Warning
8000.00	7479.85	6857.94	6700.09	25.60	18.50	116.88	510.88	408.57	1733.19	1697.64	48.77	
8050.00	7512.83	6857.88	6700.04	24.61	18.50	106.62	510.85	408.54	1777.38	1741.36	49.34	
8100.00	7545.02	6856.26	6698.91	23.48	18.48	98.01	510.02	407.72	1819.83	1783.82	50.53	
8150.00	7576.13	6853.16	6696.75	22.22	18.45	90.70	508.45	406.16	1860.29	1824.62	52.16	
8200.00	7605.86	6848.68	6693.62	20.91	18.41	84.45	506.18	403.90	1898.50	1863.42	54.13	
8250.00	7633.94	6842.92	6689.58	19.71	18.35	79.10	503.26	401.00	1934.24	1899.89	56.31	
8300.00	7660.11	6835.99	6684.71	19.40	18.29	74.53	499.77	397.53	1967.30	1933.71	58.56	
8350.00	7684.14	6828.01	6679.06	19.75	18.21	70.63	495.76	393.55	1997.51	1964.61	60.72	
8400.00	7705.79	6819.07	6672.73	20.25	18.12	67.33	491.30	389.11	2024.68	1992.33	62.58	
8450.00	7724.88	6800.00	6659.10	20.83	17.93	64.29	481.84	379.71	2048.72	2016.76	64.12	
8500.00	7741.22	6800.00	6659.10	21.50	17.93	62.29	481.84	379.71	2069.37	2037.37	64.66	
8550.00	7754.67	6800.00	6659.10	22.25	17.93	60.71	481.84	379.71	2086.71	2054.34	64.47	
8600.00	7765.10	6775.95	6641.72	23.09	17.72	58.92	470.04	367.99	2100.40	2067.57	63.98	
8650.00	7772.41	6763.83	6632.88	24.00	17.62	57.81	464.16	362.14	2110.57	2076.93	62.73	
8700.00	7776.54	6751.35	6623.73	24.98	17.51	57.06	458.14	356.16	2117.10	2082.44	61.09	
8750.00	7777.45	6738.61	6614.33	26.00	17.40	56.63	452.04	350.10	2119.93	2084.13	59.21	
8755.33	7777.35	6737.24	6613.32	26.11	17.39	56.60	451.39	349.45	2120.02	2084.09	59.00	
8800.00	7776.41	6725.82	6604.83	26.63	17.29	56.33	445.96	344.05	2120.96	2084.76	58.60	
8900.00	7774.31	6700.00	6585.49	27.95	17.06	55.72	433.83	332.00	2126.04	2089.13	57.59	
9000.00	7772.21	6676.39	6567.60	29.47	16.88	55.17	422.90	321.13	2135.25	2097.40	56.42	
9100.00	7770.11	6652.69	6549.46	31.15	16.70	54.60	412.09	310.39	2148.54	2109.61	55.19	
9105.33	7770.00	6651.44	6548.50	31.24	16.69	54.57	411.52	309.83	2149.36	2110.38	55.13	
9200.00	7768.01	6629.64	6531.63	32.98	16.52	54.05	401.72	300.09	2165.87	2125.74	53.97	
9300.00	7765.91	6600.00	6508.45	34.92	16.29	53.35	388.62	287.07	2187.18	2145.79	52.84	
9400.00	7763.81	6600.00	6508.45	36.97	16.29	53.35	388.62	287.07	2212.40	2169.43	51.49	
9500.00	7761.71	6564.18	6480.06	39.10	16.05	52.50	373.14	271.68	2241.20	2196.87	50.55	
9600.00	7759.61	6543.53	6463.51	41.31	15.91	52.01	364.38	262.98	2273.73	2227.85	49.56	
9700.00	7757.51	6523.44	6447.27	43.58	15.78	51.53	355.98	254.63	2309.75	2262.28	48.66	
9800.00	7755.41	6500.00	6428.18	45.90	15.62	50.97	346.34	245.05	2349.11	2300.05	47.88	
9900.00	7753.30	6500.00	6428.18	48.27	15.62	50.97	346.34	245.05	2391.76	2340.86	46.98	
10000.00	7751.20	6466.30	6400.44	50.67	15.43	50.18	332.77	231.56	2437.25	2384.81	46.48	
10100.00	7749.10	6448.25	6385.44	53.11	15.32	49.76	325.65	224.48	2485.72	2431.58	45.91	
10200.00	7747.00	6430.67	6370.75	55.58	15.22	49.34	318.80	217.68	2536.92	2481.07	45.42	
10300.00	7744.90	6400.00	6344.90	58.08	15.04	48.63	307.09	206.04	2590.79	2533.37	45.12	
10400.00	7742.80	6400.00	6344.90	60.60	15.04	48.63	307.09	206.04	2646.92	2587.57	44.60	
10500.00	7740.70	10399.52	7740.47	63.13	62.43	89.95	1350.55	-1446.54	2676.52	2551.09	21.34	
10600.00	7738.60	10499.52	7738.36	65.69	64.98	89.95	1350.19	-1546.52	2676.58	2546.04	20.50	
10700.00	7736.50	10599.52	7736.26	68.26	67.54	89.95	1349.83	-1646.50	2676.64	2540.96	19.73	
10800.00	7734.40	10699.52	7734.15	70.84	70.12	89.95	1349.47	-1746.48	2676.70	2535.85	19.00	
10900.00	7732.30	10799.52	7732.05	73.44	72.71	89.95	1349.12	-1846.45	2676.76	2530.72	18.33	
11000.00	7730.19	10899.52	7729.94	76.05	75.32	89.95	1348.76	-1946.43	2676.82	2525.56	17.70	
11100.00	7728.09	10999.52	7727.83	78.66	77.93	89.95	1348.40	-2046.41	2676.88	2520.38	17.11	
11200.00	7725.99	11099.52	7725.73	81.29	80.55	89.95	1348.04	-2146.38	2676.93	2515.19	16.55	
11300.00	7723.89	11199.52	7723.62	83.92	83.18	89.95	1347.68	-2246.36	2676.99	2509.98	16.03	
11400.00	7721.79	11299.52	7721.52	86.56	85.82	89.95	1347.32	-2346.34	2677.05	2504.76	15.54	
11500.00	7719.69	11399.52	7719.41	89.21	88.46	89.95	1346.96	-2446.32	2677.11	2499.52	15.07	
11600.00	7717.59	11499.52	7717.30	91.87	91.12	89.95	1346.60	-2546.29	2677.17	2494.27	14.64	
11700.00	7715.49	11599.52	7715.20	94.53	93.77	89.95	1346.25	-2646.27	2677.23	2489.01	14.22	
11800.00	7713.39	11699.52	7713.09	97.19	96.44	89.95	1345.89	-2746.25	2677.29	2483.74	13.83	
11900.00	7711.29	11799.52	7710.99	99.86	99.10	89.95	1345.53	-2846.22	2677.35	2478.45	13.46	
12000.00	7709.19	11899.52	7708.88	102.54	101.78	89.95	1345.17	-2946.20	2677.41	2473.16	13.11	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013 Time: 08:46:28 Page: 4
Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #10
Well: Spud 16 State #10H
Wellpath: 1 V0 Plan: Plan #2 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		
12100.00	7707.08	11999.52	7706.77	105.21	104.45	89.95	1344.81	-3046.18	2677.47	2467.87	12.77	
12200.00	7704.98	12099.52	7704.67	107.90	107.13	89.95	1344.45	-3146.16	2677.53	2462.56	12.46	
12300.00	7702.88	12199.52	7702.56	110.58	109.82	89.95	1344.09	-3246.13	2677.59	2457.25	12.15	
12400.00	7700.78	12299.52	7700.46	113.27	112.50	89.95	1343.73	-3346.11	2677.65	2451.93	11.86	
12500.00	7698.68	12399.52	7698.35	115.96	115.19	89.95	1343.38	-3446.09	2677.71	2446.61	11.59	
12600.00	7696.58	12499.52	7696.24	118.66	117.89	89.95	1343.02	-3546.06	2677.77	2441.28	11.32	
12700.00	7694.48	12599.52	7694.14	121.35	120.58	89.95	1342.66	-3646.04	2677.83	2435.94	11.07	
12800.00	7692.38	12699.52	7692.03	124.05	123.28	89.95	1342.30	-3746.02	2677.88	2430.60	10.83	
12900.00	7690.28	12799.52	7690.93	126.75	125.98	89.95	1341.94	-3846.00	2677.94	2425.26	10.60	
13000.00	7688.18	12899.52	7687.82	129.46	128.68	89.95	1341.58	-3945.97	2678.00	2419.91	10.38	
13100.00	7686.08	12999.52	7685.71	132.16	131.39	89.95	1341.22	-4045.95	2678.06	2414.56	10.16	
13200.00	7683.97	13099.52	7683.61	134.87	134.10	89.95	1340.86	-4145.93	2678.12	2409.20	9.96	
13300.00	7681.87	13199.52	7681.50	137.58	136.81	89.95	1340.51	-4245.90	2678.18	2403.84	9.76	
13389.19	7680.00	13270.85	7680.00	140.00	138.74	89.95	1340.25	-4317.22	2678.29	2399.60	9.61	

Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1 V0 Plan: Plan #2 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	0.05	50.01	0.04	50.01			No Data
100.00	100.00	100.00	100.00	0.08	0.08	0.05	50.01	0.04	50.01	49.84	296.66	
200.00	200.00	200.00	200.00	0.31	0.31	0.05	50.01	0.04	50.01	49.39	80.91	
300.00	300.00	300.00	300.00	0.53	0.53	0.05	50.01	0.04	50.01	48.94	46.84	
400.00	400.00	400.00	400.00	0.76	0.76	0.05	50.01	0.04	50.01	48.49	32.96	
500.00	500.00	500.00	500.00	0.98	0.98	0.05	50.01	0.04	50.01	48.04	25.43	
600.00	600.00	600.00	600.00	1.21	1.21	0.05	50.01	0.04	50.01	47.59	20.70	
700.00	700.00	700.00	700.00	1.43	1.43	0.05	50.01	0.04	50.01	47.14	17.45	
800.00	800.00	800.00	800.00	1.66	1.66	0.05	50.01	0.04	50.01	46.69	15.08	
900.00	900.00	900.00	900.00	1.88	1.88	0.05	50.01	0.04	50.01	46.25	13.28	
1000.00	1000.00	1000.00	1000.00	2.11	2.11	0.05	50.01	0.04	50.01	45.80	11.87	
1100.00	1100.00	1100.00	1100.00	2.33	2.33	0.05	50.01	0.04	50.01	45.35	10.72	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	0.05	50.01	0.04	50.01	44.90	9.78	
1300.00	1300.00	1300.00	1300.00	2.78	2.78	0.05	50.01	0.04	50.01	44.45	8.99	
1400.00	1400.00	1400.00	1400.00	3.01	3.01	0.05	50.01	0.04	50.01	44.00	8.32	
1500.00	1500.00	1500.00	1500.00	3.23	3.23	0.05	50.01	0.04	50.01	43.55	7.74	
1600.00	1600.00	1600.00	1600.00	3.46	3.46	0.05	50.01	0.04	50.01	43.10	7.24	
1700.00	1700.00	1700.00	1700.00	3.68	3.68	0.05	50.01	0.04	50.01	42.65	6.79	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	0.05	50.01	0.04	50.01	42.20	6.40	
1900.00	1900.00	1900.00	1900.00	4.13	4.13	0.05	50.01	0.04	50.01	41.75	6.05	
2000.00	2000.00	2000.00	2000.00	4.35	4.35	0.05	50.01	0.04	50.01	41.30	5.74	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	0.05	50.01	0.04	50.01	40.85	5.46	
2200.00	2200.00	2200.00	2200.00	4.80	4.80	0.05	50.01	0.04	50.01	40.40	5.20	
2300.00	2300.00	2300.00	2300.00	5.03	5.03	0.05	50.01	0.04	50.01	39.95	4.97	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	0.05	50.01	0.04	50.01	39.50	4.76	
2500.00	2500.00	2500.00	2500.00	5.48	5.48	0.05	50.01	0.04	50.01	39.05	4.56	
2600.00	2600.00	2600.00	2600.00	5.70	5.70	0.05	50.01	0.04	50.01	38.60	4.38	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	0.05	50.01	0.04	50.01	38.15	4.22	
2800.00	2800.00	2800.00	2800.00	6.15	6.15	0.05	50.01	0.04	50.01	37.70	4.06	
2900.00	2900.00	2900.00	2900.00	6.38	6.38	0.05	50.01	0.04	50.01	37.25	3.92	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013 Time: 08:46:28 Page: 5
Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1 V0 Plan: Plan #2 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		
3000.00	3000.00	3000.00	3000.00	6.60	6.60	0.05	50.01	0.04	50.01	36.81	3.79	
3100.00	3100.00	3100.00	3100.00	6.83	6.83	0.05	50.01	0.04	50.01	36.36	3.66	
3200.00	3200.00	3200.00	3200.00	7.05	7.05	0.05	50.01	0.04	50.01	35.91	3.55	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	0.05	50.01	0.04	50.01	35.46	3.44	
3400.00	3400.00	3400.00	3400.00	7.50	7.50	0.05	50.01	0.04	50.01	35.01	3.33	
3500.00	3500.00	3500.00	3500.00	7.73	7.73	0.05	50.01	0.04	50.01	34.56	3.24	
3600.00	3600.00	3600.00	3600.00	7.95	7.95	0.05	50.01	0.04	50.01	34.11	3.14	
3700.00	3700.00	3700.00	3700.00	8.18	8.18	0.05	50.01	0.04	50.01	33.66	3.06	
3800.00	3800.00	3800.00	3800.00	8.40	8.40	0.05	50.01	0.04	50.01	33.21	2.98	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	0.05	50.01	0.04	50.01	32.76	2.90	
4000.00	4000.00	4000.00	4000.00	8.85	8.85	0.05	50.01	0.04	50.01	32.31	2.83	
4100.00	4100.00	4100.00	4100.00	9.07	9.07	0.05	50.01	0.04	50.01	31.86	2.76	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	0.05	50.01	0.04	50.01	31.41	2.69	
4300.00	4300.00	4300.00	4300.00	9.52	9.52	0.05	50.01	0.04	50.01	30.96	2.63	
4400.00	4400.00	4400.00	4400.00	9.75	9.75	0.05	50.01	0.04	50.01	30.51	2.56	
4500.00	4500.00	4500.00	4500.00	9.97	9.97	0.05	50.01	0.04	50.01	30.06	2.51	
4600.00	4600.00	4600.00	4600.00	10.20	10.20	0.05	50.01	0.04	50.01	29.61	2.45	
4700.00	4700.00	4700.00	4700.00	10.42	10.42	0.05	50.01	0.04	50.01	29.16	2.40	
4800.00	4800.00	4800.00	4800.00	10.65	10.65	0.05	50.01	0.04	50.01	28.71	2.35	
4900.00	4900.00	4900.00	4900.00	10.87	10.87	0.05	50.01	0.04	50.01	28.26	2.30	
5000.00	5000.00	5000.00	5000.00	11.10	11.10	0.05	50.01	0.04	50.01	27.81	2.25	
5100.00	5100.00	5100.00	5100.00	11.32	11.32	0.05	50.01	0.04	50.01	27.36	2.21	
5200.00	5200.00	5200.00	5200.00	11.55	11.55	0.05	50.01	0.04	50.01	26.92	2.17	
5300.00	5300.00	5300.00	5300.00	11.77	11.77	0.05	50.01	0.04	50.01	26.47	2.12	
5400.00	5400.00	5400.00	5400.00	12.00	12.00	0.05	50.01	0.04	50.01	26.02	2.08	
5500.00	5500.00	5500.02	5500.01	12.22	12.21	1.52	49.97	1.32	49.99	25.55	2.05	
5530.00	5530.00	5529.99	5529.94	12.29	12.27	3.04	49.93	2.66	50.00	25.44	2.04	
5600.00	5599.98	5599.76	5599.53	12.43	12.41	233.81	49.77	7.58	51.10	26.26	2.06	
5700.00	5699.78	5699.00	5698.11	12.61	12.61	240.39	49.42	18.94	56.30	31.10	2.23	
5800.00	5799.10	5797.56	5795.29	12.79	12.82	246.06	48.91	35.28	65.80	40.22	2.57	
5900.00	5897.69	5895.25	5890.66	12.98	13.05	250.33	48.24	56.40	79.39	53.43	3.06	
6000.00	5995.27	5991.91	5983.84	13.18	13.29	253.32	47.44	82.07	96.80	70.44	3.67	
6100.00	6091.58	6087.39	6074.49	13.41	13.56	255.37	46.50	112.01	117.81	91.00	4.39	
6200.00	6186.34	6181.56	6162.31	13.67	13.87	256.80	45.44	145.95	142.22	114.92	5.21	
6300.00	6279.31	6274.31	6247.07	13.97	14.22	257.83	44.26	183.55	169.88	141.99	6.09	
6400.00	6370.22	6365.54	6328.57	14.33	14.62	258.62	42.98	224.52	200.64	172.07	7.02	
6500.00	6458.83	6455.20	6406.67	14.76	15.08	259.30	41.60	268.52	234.36	204.97	7.98	
6600.00	6544.90	6543.23	6481.26	15.26	15.61	259.91	40.13	315.25	270.90	240.55	8.93	
6700.00	6628.18	6629.62	6552.28	15.87	16.21	260.50	38.59	364.39	310.12	278.65	9.85	
6800.00	6708.45	6714.36	6619.72	16.57	16.88	261.11	36.99	415.66	351.88	319.10	10.74	
6900.00	6785.49	6797.45	6683.57	17.39	17.62	261.75	35.32	468.79	396.03	361.75	11.55	
7000.00	6859.10	6884.31	6748.58	18.33	18.49	262.22	33.52	526.38	442.04	405.97	12.25	
7100.00	6929.05	6971.93	6814.08	19.40	19.43	262.25	31.70	584.54	488.91	450.83	12.84	
7200.00	6995.18	7058.44	6878.75	20.59	20.40	261.99	29.90	641.97	536.76	496.50	13.33	
7300.00	7057.29	7179.83	6975.02	21.91	21.56	259.73	27.18	715.49	583.89	541.11	13.65	
7400.00	7115.21	7299.66	7083.89	23.35	22.34	255.03	23.98	764.82	627.53	582.67	13.99	
7433.31	7133.54	7333.58	7116.50	23.85	22.48	253.42	23.00	774.12	642.16	596.76	14.14	
7500.00	7169.77	7393.18	7174.99	24.89	22.68	249.53	21.23	785.24	672.39	626.10	14.52	
7591.54	7219.49	7459.83	7241.41	26.35	22.81	244.94	19.19	789.68	716.80	672.26	16.09	
7600.00	7224.11	7465.24	7246.82	26.48	22.82	243.58	19.03	789.67	721.14	679.64	17.37	
7650.00	7252.48	7496.22	7277.75	27.07	22.85	234.97	18.06	788.51	748.89	702.13	16.01	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013 Time: 08:46:28 Page: 6
Co-ordinate(NE) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1 V0 Plan: Plan #2 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 Edge Distance ft	Separation Distance ft	Factor	Warning
7700.00	7282.46	7525.84	7307.22	27.48	22.87	225.42	17.14	785.68	779.66	733.60	16.93	
7750.00	7313.76	7554.54	7335.58	27.68	22.87	214.97	16.25	781.35	812.80	767.87	18.09	
7800.00	7346.10	7582.68	7363.10	27.68	22.87	203.77	15.38	775.59	847.68	804.15	19.47	
7850.00	7379.19	7610.52	7390.00	27.46	22.86	192.07	14.52	768.44	883.72	841.60	20.98	
7900.00	7412.72	7638.33	7416.43	27.04	22.84	180.18	13.67	759.87	920.42	879.48	22.49	
7950.00	7446.37	7666.30	7442.53	26.42	22.83	168.47	12.83	749.84	957.28	917.13	23.84	
8000.00	7479.85	7694.64	7468.37	25.60	22.81	157.26	11.99	738.26	993.90	954.08	24.96	
8050.00	7512.83	7723.51	7494.02	24.61	22.79	146.81	11.14	725.04	1029.88	990.02	25.84	
8100.00	7545.02	7753.07	7519.48	23.48	22.77	137.28	10.30	710.05	1064.88	1024.77	26.55	
8150.00	7576.13	7783.48	7544.74	22.22	22.77	128.76	9.46	693.15	1098.59	1058.13	27.15	
8200.00	7605.86	7814.87	7569.74	20.91	22.77	121.25	8.62	674.18	1130.73	1089.91	27.70	
8250.00	7633.94	7847.37	7594.36	19.71	22.78	114.72	7.78	653.00	1161.04	1119.87	28.20	
8300.00	7660.11	7881.09	7618.47	19.40	22.82	109.11	6.95	629.44	1189.28	1147.74	28.63	
8350.00	7684.14	7916.13	7641.84	19.75	22.87	104.35	6.14	603.36	1215.23	1173.27	28.96	
8400.00	7705.79	7952.55	7664.23	20.25	22.96	100.36	5.34	574.65	1238.68	1196.21	29.17	
8450.00	7724.88	7990.39	7685.30	20.83	23.09	97.08	4.58	543.24	1259.47	1216.33	29.20	
8500.00	7741.22	8029.66	7704.70	21.50	23.27	94.44	3.86	509.12	1277.41	1233.43	29.05	
8550.00	7754.67	8070.31	7722.02	22.25	23.50	92.38	3.19	472.36	1292.37	1247.36	28.71	
8600.00	7765.10	8112.25	7736.82	23.09	23.79	90.88	2.60	433.14	1304.21	1257.98	28.21	
8650.00	7772.41	8155.33	7748.70	24.00	24.14	89.88	2.08	391.74	1312.82	1265.20	27.57	
8700.00	7776.54	8199.35	7757.26	24.98	24.55	89.37	1.67	348.58	1318.14	1268.98	26.82	
8750.00	7777.45	8244.07	7762.20	26.00	25.02	89.33	1.36	304.14	1320.09	1269.30	25.99	
8755.33	7777.35	8248.87	7762.50	26.11	25.07	89.36	1.33	299.36	1320.09	1269.13	25.90	
8800.00	7776.41	8291.41	7763.76	26.63	25.57	89.45	1.14	256.84	1320.06	1268.07	25.39	
8900.00	7774.31	8391.32	7765.86	27.95	26.89	89.63	0.72	156.95	1320.02	1265.38	24.16	
9000.00	7772.21	8491.23	7767.96	29.47	28.41	89.82	0.31	57.06	1320.00	1262.31	22.88	
9100.00	7770.11	8591.15	7770.06	31.15	30.11	90.00	-0.11	-42.83	1320.00	1258.90	21.61	
9105.33	7770.00	8596.47	7770.17	31.24	30.20	90.01	-0.13	-48.16	1320.00	1258.72	21.54	
9200.00	7768.01	8691.06	7772.16	32.98	31.96	90.18	-0.53	-142.72	1320.00	1255.22	20.38	
9300.00	7765.91	8790.97	7774.26	34.92	33.92	90.36	-0.95	-242.61	1320.02	1251.31	19.21	
9400.00	7763.81	8890.88	7776.36	36.97	35.99	90.54	-1.36	-342.49	1320.06	1247.21	18.12	
9500.00	7761.71	8990.79	7778.46	39.10	38.15	90.73	-1.78	-442.38	1320.10	1242.95	17.11	
9600.00	7759.61	9090.70	7780.56	41.31	40.38	90.91	-2.20	-542.27	1320.16	1238.56	16.18	
9700.00	7757.51	9190.62	7782.66	43.58	42.67	91.09	-2.62	-642.16	1320.24	1234.06	15.32	
9800.00	7755.41	9290.53	7784.76	45.90	45.01	91.27	-3.03	-742.05	1320.32	1229.47	14.53	
9900.00	7753.30	9390.44	7786.86	48.27	47.39	91.46	-3.45	-841.94	1320.43	1224.81	13.81	
10000.00	7751.20	9490.35	7788.96	50.67	49.81	91.64	-3.87	-941.83	1320.54	1220.09	13.15	
10100.00	7749.10	9590.26	7791.06	53.11	52.27	91.82	-4.29	-1041.72	1320.67	1215.32	12.54	
10200.00	7747.00	9690.17	7793.16	55.58	54.75	92.00	-4.71	-1141.60	1320.81	1210.51	11.98	
10300.00	7744.90	9790.09	7795.26	58.08	57.26	92.18	-5.12	-1241.49	1320.96	1205.67	11.46	
10400.00	7742.80	9890.00	7797.36	60.60	59.78	92.37	-5.54	-1341.38	1321.13	1200.80	10.98	
10500.00	7740.70	9989.91	7799.46	63.13	62.33	92.55	-5.96	-1441.27	1321.31	1195.90	10.54	
10600.00	7738.60	10089.82	7801.56	65.69	64.89	92.73	-6.38	-1541.16	1321.50	1190.99	10.13	
10700.00	7736.50	10189.73	7803.66	68.26	67.47	92.91	-6.79	-1641.05	1321.71	1186.06	9.74	
10800.00	7734.40	10289.64	7805.75	70.84	70.06	93.09	-7.21	-1740.94	1321.93	1181.12	9.39	
10900.00	7732.30	10389.56	7807.85	73.44	72.67	93.27	-7.63	-1840.83	1322.16	1176.18	9.06	
11000.00	7730.19	10489.47	7809.95	76.05	75.28	93.46	-8.05	-1940.71	1322.41	1171.23	8.75	
11100.00	7728.09	10589.38	7812.05	78.66	77.90	93.64	-8.46	-2040.60	1322.67	1166.28	8.46	
11200.00	7725.99	10689.29	7814.15	81.29	80.53	93.82	-8.88	-2140.49	1322.94	1161.33	8.19	
11300.00	7723.89	10789.20	7816.25	83.92	83.17	94.00	-9.30	-2240.38	1323.23	1156.38	7.93	
11400.00	7721.79	10889.11	7818.35	86.56	85.82	94.18	-9.72	-2340.27	1323.53	1151.43	7.69	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013 Time: 08:46:28 Page: 7
Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Edge Distance	Separation Distance	Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11500.00	7719.69	10989.03	7820.45	89.21	88.47	94.36	-10.13	-2440.16	1323.84	1146.49	7.46	
11600.00	7717.59	11088.94	7822.55	91.87	91.13	94.54	-10.55	-2540.05	1324.17	1141.55	7.25	
11700.00	7715.49	11188.85	7824.65	94.53	93.79	94.72	-10.97	-2639.94	1324.51	1136.62	7.05	
11800.00	7713.39	11288.76	7826.75	97.19	96.46	94.91	-11.39	-2739.82	1324.86	1131.70	6.86	
11900.00	7711.29	11388.67	7828.85	99.86	99.13	95.09	-11.81	-2839.71	1325.23	1126.78	6.68	
12000.00	7709.19	11488.58	7830.95	102.54	101.81	95.27	-12.22	-2939.60	1325.61	1121.88	6.51	
12100.00	7707.08	11588.50	7833.05	105.21	104.49	95.45	-12.64	-3039.49	1326.00	1116.98	6.34	
12200.00	7704.98	11688.41	7835.15	107.90	107.17	95.63	-13.06	-3139.38	1326.41	1112.10	6.19	
12300.00	7702.88	11788.32	7837.25	110.58	109.86	95.81	-13.48	-3239.27	1326.82	1107.23	6.04	
12400.00	7700.78	11888.23	7839.35	113.27	112.55	95.99	-13.89	-3339.16	1327.26	1102.37	5.90	
12500.00	7698.68	11988.14	7841.45	115.96	115.24	96.17	-14.31	-3439.05	1327.70	1097.52	5.77	
12600.00	7696.58	12088.05	7843.55	118.66	117.94	96.35	-14.73	-3538.93	1328.16	1092.69	5.64	
12700.00	7694.48	12187.97	7845.65	121.35	120.63	96.53	-15.15	-3638.82	1328.63	1087.86	5.52	
12800.00	7692.38	12287.88	7847.75	124.05	123.33	96.71	-15.56	-3738.71	1329.12	1083.06	5.40	
12900.00	7690.28	12387.79	7849.85	126.75	126.04	96.89	-15.98	-3838.60	1329.62	1078.27	5.29	
13000.00	7688.18	12487.70	7851.95	129.46	128.74	97.07	-16.40	-3938.49	1330.13	1073.49	5.18	
13100.00	7686.08	12587.61	7854.05	132.16	131.45	97.25	-16.82	-4038.38	1330.65	1068.73	5.08	
13200.00	7683.97	12687.52	7856.15	134.87	134.15	97.43	-17.23	-4138.27	1331.19	1063.98	4.98	
13300.00	7681.87	12787.44	7858.25	137.58	136.86	97.61	-17.65	-4238.16	1331.74	1059.26	4.89	
13389.19	7680.00	12876.54	7860.12	140.00	139.28	97.77	-18.02	-4327.24	1332.24	1055.05	4.81	

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Edge Distance	Separation Distance	Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	6800.00	6797.88	0.00	0.00	236.21	-820.77	-1226.51	6961.12			No Data
100.00	100.00	6800.00	6797.88	0.08	0.00	236.21	-820.77	-1226.51	6863.42	6863.34	81236.23	
200.00	200.00	6800.00	6797.88	0.31	0.00	236.21	-820.77	-1226.51	6765.80	6765.49	21877.85	
300.00	300.00	6800.00	6797.88	0.53	0.00	236.21	-820.77	-1226.51	6668.24	6667.71	12486.89	
400.00	400.00	6800.00	6797.88	0.76	0.00	236.21	-820.77	-1226.51	6570.76	6570.00	8659.57	
500.00	500.00	6800.00	6797.88	0.98	0.00	236.21	-820.77	-1226.51	6473.35	6472.37	6581.61	
600.00	600.00	6800.00	6797.88	1.21	0.00	236.21	-820.77	-1226.51	6376.03	6374.82	5276.78	
700.00	700.00	6800.00	6797.88	1.43	0.00	236.21	-820.77	-1226.51	6278.78	6277.35	4381.31	
800.00	800.00	6800.00	6797.88	1.66	0.00	236.21	-820.77	-1226.51	6181.63	6179.97	3728.70	
900.00	900.00	6800.00	6797.88	1.88	0.00	236.21	-820.77	-1226.51	6084.57	6082.69	3231.98	
1000.00	1000.00	6800.00	6797.88	2.11	0.00	236.21	-820.77	-1226.51	5987.60	5985.50	2841.25	
1100.00	1100.00	6800.00	6797.88	2.33	0.00	236.21	-820.77	-1226.51	5890.74	5888.41	2525.89	
1200.00	1200.00	6800.00	6797.88	2.56	0.00	236.21	-820.77	-1226.51	5793.98	5791.43	2266.01	
1300.00	1300.00	6800.00	6797.88	2.78	0.00	236.21	-820.77	-1226.51	5697.34	5694.56	2048.17	
1400.00	1400.00	6800.00	6797.88	3.01	0.00	236.21	-820.77	-1226.51	5600.81	5597.81	1862.93	
1500.00	1500.00	6800.00	6797.88	3.23	0.00	236.21	-820.77	-1226.51	5504.41	5501.18	1703.51	
1600.00	1600.00	6800.00	6797.88	3.46	0.00	236.21	-820.77	-1226.51	5408.14	5404.68	1564.86	
1700.00	1700.00	6800.00	6797.88	3.68	0.00	236.21	-820.77	-1226.51	5312.00	5308.32	1443.19	
1800.00	1800.00	6800.00	6797.88	3.91	0.00	236.21	-820.77	-1226.51	5216.01	5212.11	1335.55	
1900.00	1900.00	6800.00	6797.88	4.13	0.00	236.21	-820.77	-1226.51	5120.18	5116.05	1239.67	
2000.00	2000.00	6800.00	6797.88	4.35	0.00	236.21	-820.77	-1226.51	5024.50	5020.15	1153.72	
2100.00	2100.00	6800.00	6797.88	4.58	0.00	236.21	-820.77	-1226.51	4929.00	4924.42	1076.25	
2200.00	2200.00	6800.00	6797.88	4.80	0.00	236.21	-820.77	-1226.51	4833.68	4828.88	1006.06	
2300.00	2300.00	6800.00	6797.88	5.03	0.00	236.21	-820.77	-1226.51	4738.56	4733.53	942.18	
2400.00	2400.00	6800.00	6797.88	5.25	0.00	236.21	-820.77	-1226.51	4643.63	4638.38	883.81	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath:

Date: 2/12/2013

Time: 08:46:28

Page: 8

Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
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		
2500.00	2500.00	6800.00	6797.88	5.48	0.00	236.21	-820.77	-1226.51	4548.93	4543.45	830.27	
2600.00	2600.00	6800.00	6797.88	5.70	0.00	236.21	-820.77	-1226.51	4454.46	4448.75	780.99	
2700.00	2700.00	6800.00	6797.88	5.93	0.00	236.21	-820.77	-1226.51	4360.23	4354.30	735.48	
2800.00	2800.00	6800.00	6797.88	6.15	0.00	236.21	-820.77	-1226.51	4266.27	4260.11	693.34	
2900.00	2900.00	6800.00	6797.88	6.38	0.00	236.21	-820.77	-1226.51	4172.58	4166.21	654.22	
3000.00	3000.00	6800.00	6797.88	6.60	0.00	236.21	-820.77	-1226.51	4079.20	4072.60	617.81	
3100.00	3100.00	6800.00	6797.88	6.83	0.00	236.21	-820.77	-1226.51	3986.14	3979.31	583.84	
3200.00	3200.00	6800.00	6797.88	7.05	0.00	236.21	-820.77	-1226.51	3893.42	3886.37	552.08	
3300.00	3300.00	6800.00	6797.88	7.28	0.00	236.21	-820.77	-1226.51	3801.07	3793.80	522.34	
3400.00	3400.00	6800.00	6797.88	7.50	0.00	236.21	-820.77	-1226.51	3709.12	3701.62	494.43	
3500.00	3500.00	6800.00	6797.88	7.73	0.00	236.21	-820.77	-1226.51	3617.60	3609.87	468.20	
3600.00	3600.00	6800.00	6797.88	7.95	0.00	236.21	-820.77	-1226.51	3526.53	3518.58	443.52	
3700.00	3700.00	6800.00	6797.88	8.18	0.00	236.21	-820.77	-1226.51	3435.96	3427.79	420.25	
3800.00	3800.00	6800.00	6797.88	8.40	0.00	236.21	-820.77	-1226.51	3345.93	3337.53	398.29	
3900.00	3900.00	6800.00	6797.88	8.63	0.00	236.21	-820.77	-1226.51	3256.49	3247.86	377.54	
4000.00	4000.00	6800.00	6797.88	8.85	0.00	236.21	-820.77	-1226.51	3167.67	3158.82	357.91	
4100.00	4100.00	6800.00	6797.88	9.07	0.00	236.21	-820.77	-1226.51	3079.54	3070.46	339.34	
4200.00	4200.00	6800.00	6797.88	9.30	0.00	236.21	-820.77	-1226.51	2992.15	2982.85	321.74	
4300.00	4300.00	6800.00	6797.88	9.52	0.00	236.21	-820.77	-1226.51	2905.58	2896.06	305.06	
4400.00	4400.00	6800.00	6797.88	9.75	0.00	236.21	-820.77	-1226.51	2819.90	2810.15	289.24	
4500.00	4500.00	6800.00	6797.88	9.97	0.00	236.21	-820.77	-1226.51	2735.19	2725.21	274.23	
4600.00	4600.00	6800.00	6797.88	10.20	0.00	236.21	-820.77	-1226.51	2651.54	2641.34	259.98	
4700.00	4700.00	6800.00	6797.88	10.42	0.00	236.21	-820.77	-1226.51	2569.06	2558.64	246.46	
4800.00	4800.00	6800.00	6797.88	10.65	0.00	236.21	-820.77	-1226.51	2487.87	2477.23	233.64	
4900.00	4900.00	6800.00	6797.88	10.87	0.00	236.21	-820.77	-1226.51	2408.10	2397.23	221.47	
5000.00	5000.00	6800.00	6797.88	11.10	0.00	236.21	-820.77	-1226.51	2329.88	2318.79	209.94	
5100.00	5100.00	6800.00	6797.88	11.32	0.00	236.21	-820.77	-1226.51	2253.39	2242.07	199.01	
5200.00	5200.00	6800.00	6797.88	11.55	0.00	236.21	-820.77	-1226.51	2178.81	2167.26	188.68	
5300.00	5300.00	6800.00	6797.88	11.77	0.00	236.21	-820.77	-1226.51	2106.33	2094.56	178.92	
5400.00	5400.00	6800.00	6797.88	12.00	0.00	236.21	-820.77	-1226.51	2036.19	2024.19	169.72	
5500.00	5500.00	6800.00	6797.88	12.22	0.00	236.21	-820.77	-1226.51	1968.62	1956.40	161.07	
5530.00	5530.00	6800.00	6797.88	12.29	0.00	236.21	-820.77	-1226.51	1948.90	1936.61	158.59	
5600.00	5599.98	6800.00	6797.88	12.43	0.00	104.21	-820.77	-1226.51	1904.14	1891.72	153.21	
5700.00	5699.78	6800.00	6797.88	12.61	0.00	106.40	-820.77	-1226.51	1843.83	1831.23	146.31	
5800.00	5799.10	6800.00	6797.88	12.79	0.00	108.31	-820.77	-1226.51	1788.32	1775.55	139.99	
5900.00	5897.69	6800.00	6797.88	12.98	0.00	109.95	-820.77	-1226.51	1738.24	1725.29	134.24	
6000.00	5995.27	6800.00	6797.88	13.18	0.00	111.33	-820.77	-1226.51	1694.20	1681.08	129.05	
6100.00	6091.58	6800.00	6797.88	13.41	0.00	112.46	-820.77	-1226.51	1656.82	1643.50	124.38	
6200.00	6186.34	6800.00	6797.88	13.67	0.00	113.33	-820.77	-1226.51	1626.66	1613.13	120.20	
6300.00	6279.31	6800.00	6797.88	13.97	0.00	113.96	-820.77	-1226.51	1604.21	1590.43	116.44	
6400.00	6370.22	6800.00	6797.88	14.33	0.00	114.36	-820.77	-1226.51	1589.86	1575.79	113.02	
6500.00	6458.83	6800.00	6797.88	14.76	0.00	114.53	-820.77	-1226.51	1583.87	1569.45	109.88	
6600.00	6544.90	6800.00	6797.88	15.26	0.00	114.46	-820.77	-1226.51	1586.35	1571.51	106.91	
6700.00	6628.18	6800.00	6797.88	15.87	0.00	114.16	-820.77	-1226.51	1597.26	1581.90	104.03	
6800.00	6708.45	6800.00	6797.88	16.57	0.00	113.62	-820.77	-1226.51	1616.39	1600.41	101.16	
6900.00	6785.49	6800.00	6797.88	17.39	0.00	112.85	-820.77	-1226.51	1643.41	1626.68	98.23	
7000.00	6859.10	6851.69	6849.52	18.33	0.47	113.10	-819.30	-1227.33	1677.33	1659.68	95.03	
7100.00	6929.05	6972.65	6967.48	19.40	2.24	115.49	-794.49	-1231.94	1714.50	1695.56	90.52	
7200.00	6995.18	7040.52	7030.62	20.59	2.92	116.47	-769.87	-1235.17	1756.01	1735.71	86.49	
7300.00	7057.29	7202.25	7170.20	21.91	4.59	120.72	-689.08	-1239.10	1802.02	1779.60	80.36	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath#:

Date: 2/12/2013

Time: 08:46:28

Page: 9

Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation Distance Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft		
7400.00	7115.21	7214.19	7179.59	23.35	4.74	119.58	-681.70	-1239.13	1853.72 1829.86	77.70	
7433.31	7133.54	7215.37	7180.50	23.85	4.76	119.04	-680.96	-1239.14	1872.29 1847.92	76.84	
7500.00	7169.77	7217.21	7181.93	24.89	4.79	119.11	-679.80	-1239.15	1910.88 1885.61	75.62	
7591.54	7219.49	7219.34	7183.57	26.35	4.82	119.19	-678.45	-1239.16	1966.32 1939.76	74.05	
7600.00	7224.11	7219.51	7183.71	26.48	4.82	118.65	-678.33	-1239.16	1971.52 1944.82	73.85	
7650.00	7252.48	7220.53	7184.49	27.07	4.83	115.22	-677.69	-1239.17	2000.50 1973.10	73.01	
7700.00	7282.46	7221.48	7185.22	27.48	4.85	111.39	-677.08	-1239.18	2026.34 1998.42	72.59	
7750.00	7313.76	7222.36	7185.89	27.68	4.86	107.19	-676.52	-1239.19	2048.92 2020.69	72.57	
7800.00	7346.10	7223.17	7186.51	27.68	4.87	102.66	-676.00	-1239.19	2068.16 2039.81	72.95	
7850.00	7379.19	7223.91	7187.08	27.46	4.88	97.86	-675.52	-1239.20	2083.96 2055.69	73.74	
7900.00	7412.72	7224.59	7187.60	27.04	4.89	92.91	-675.08	-1239.21	2096.26 2068.29	74.94	
7950.00	7446.37	7225.20	7188.07	26.42	4.90	87.91	-674.68	-1239.21	2105.01 2077.52	76.57	
8000.00	7479.85	7225.76	7188.49	25.60	4.91	82.98	-674.32	-1239.22	2110.17 2083.34	78.66	
8050.00	7512.83	7226.26	7188.87	24.61	4.91	78.24	-674.00	-1239.22	2111.72 2085.72	81.20	
8100.00	7545.02	7226.70	7189.21	23.48	4.92	73.79	-673.71	-1239.23	2109.66 2084.62	84.22	
8150.00	7576.13	7227.10	7189.51	22.22	4.93	69.68	-673.45	-1239.23	2104.00 2080.01	87.70	
8200.00	7605.86	7227.45	7189.78	20.91	4.93	65.96	-673.23	-1239.24	2094.75 2071.88	91.59	
8250.00	7633.94	7227.75	7190.01	19.71	4.93	62.65	-673.03	-1239.24	2081.96 2060.21	95.73	
8300.00	7660.11	7228.01	7190.20	19.40	4.94	59.76	-672.86	-1239.24	2065.67 2044.99	99.88	
8350.00	7684.14	7228.23	7190.37	19.75	4.94	57.26	-672.72	-1239.25	2045.97 2026.21	103.58	
8400.00	7705.79	7228.41	7190.51	20.25	4.94	55.15	-672.60	-1239.25	2022.92 2003.88	106.24	
8450.00	7724.88	7228.55	7190.62	20.83	4.95	53.40	-672.51	-1239.25	1996.64 1978.01	107.16	
8500.00	7741.22	7228.66	7190.70	21.50	4.95	52.00	-672.43	-1239.25	1967.24 1948.65	105.83	
8550.00	7754.67	7228.73	7190.75	22.25	4.95	50.93	-672.39	-1239.25	1934.85 1915.92	102.20	
8600.00	7765.10	7228.77	7190.78	23.09	4.95	50.18	-672.36	-1239.25	1899.64 1879.99	96.68	
8650.00	7772.41	7228.77	7190.78	24.00	4.95	49.75	-672.36	-1239.25	1861.76 1841.08	90.03	
8700.00	7776.54	7228.74	7190.76	24.98	4.95	49.64	-672.38	-1239.25	1821.42 1799.47	82.97	
8750.00	7777.45	7228.68	7190.71	26.00	4.95	49.88	-672.42	-1239.25	1778.84 1755.44	76.04	
8755.33	7777.35	7228.67	7190.70	26.11	4.95	49.93	-672.43	-1239.25	1774.17 1750.62	75.32	
8800.00	7776.41	7228.59	7190.64	26.63	4.95	49.92	-672.48	-1239.25	1735.14 1711.15	72.33	
8900.00	7774.31	7228.41	7190.51	27.95	4.94	49.91	-672.60	-1239.25	1648.79 1623.70	65.71	
9000.00	7772.21	7228.23	7190.37	29.47	4.94	49.90	-672.72	-1239.25	1564.06 1537.71	59.34	
9100.00	7770.11	7228.04	7190.22	31.15	4.94	49.88	-672.84	-1239.24	1481.24 1453.48	53.35	
9105.33	7770.00	7228.03	7190.21	31.24	4.94	49.88	-672.85	-1239.24	1476.89 1449.04	53.04	
9200.00	7768.01	7227.84	7190.07	32.98	4.94	49.87	-672.97	-1239.24	1400.67 1371.38	47.82	
9300.00	7765.91	7227.64	7189.92	34.92	4.93	49.86	-673.10	-1239.24	1322.75 1291.82	42.77	
9400.00	7763.81	7227.43	7189.76	36.97	4.93	49.84	-673.24	-1239.24	1247.98 1215.33	38.22	
9500.00	7761.71	7227.21	7189.60	39.10	4.93	49.83	-673.38	-1239.23	1176.97 1142.52	34.16	
9600.00	7759.61	7226.99	7189.43	41.31	4.92	49.81	-673.53	-1239.23	1110.43 1074.11	30.57	
9700.00	7757.51	7226.75	7189.25	43.58	4.92	49.80	-673.68	-1239.23	1049.21 1010.97	27.43	
9800.00	7755.41	7226.51	7189.07	45.90	4.92	49.78	-673.83	-1239.23	994.30 954.09	24.73	
9900.00	7753.30	7226.27	7188.88	48.27	4.91	49.77	-673.99	-1239.22	946.80 904.59	22.43	
10000.00	7751.20	7226.01	7188.68	50.67	4.91	49.75	-674.16	-1239.22	907.86 863.64	20.53	
10100.00	7749.10	7225.74	7188.48	53.11	4.91	49.73	-674.33	-1239.22	878.64 832.39	19.00	
10200.00	7747.00	7225.46	7188.27	55.58	4.90	49.71	-674.51	-1239.22	860.11 811.86	17.83	
10300.00	7744.90	7225.17	7188.05	58.08	4.90	49.69	-674.70	-1239.21	852.99 802.75	16.98	
10400.00	7742.80	7224.88	7187.82	60.60	4.89	49.67	-674.89	-1239.21	857.54 805.35	16.43	
10500.00	7740.70	7224.56	7187.58	63.13	4.89	49.65	-675.10	-1239.21	873.59 819.48	16.14	
10600.00	7738.60	7224.24	7187.33	65.69	4.89	49.63	-675.31	-1239.20	900.53 844.51	16.08	
10700.00	7736.50	7223.90	7187.07	68.26	4.88	49.61	-675.52	-1239.20	937.41 879.51	16.19	
10800.00	7734.40	7223.55	7186.81	70.84	4.88	49.58	-675.75	-1239.20	983.12 923.35	16.45	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #12
Reference Well: Spud 16 State #12
Reference Wellpath#:

Date: 2/12/2013

Time: 08:46:28

Page: 10

Co-ordinate(N/E) Reference: Well: Spud 16 State #12, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation Distance	Factor	Warning
		MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft			
10900.00	7732.30	7223.18	7186.52	73.44	4.87	49.56	-675.99	-1239.19	1036.49	974.84	16.81		
11000.00	7730.19	7222.80	7186.23	76.05	4.86	49.53	-676.23	-1239.19	1096.40	1032.87	17.26		
11100.00	7728.09	7222.39	7185.92	78.66	4.86	49.51	-676.49	-1239.19	1161.84	1096.41	17.76		
11200.00	7725.99	7221.97	7185.60	81.29	4.85	49.48	-676.76	-1239.18	1231.94	1164.60	18.29		
11300.00	7723.89	7221.53	7185.26	83.92	4.85	49.45	-677.05	-1239.18	1305.93	1236.67	18.86		
11400.00	7721.79	7221.07	7184.91	86.56	4.84	49.42	-677.34	-1239.18	1383.20	1312.00	19.43		
11500.00	7719.69	7220.58	7184.53	89.21	4.83	49.38	-677.65	-1239.17	1463.22	1390.08	20.01		
11600.00	7717.59	7220.07	7184.14	91.87	4.83	49.35	-677.98	-1239.17	1545.57	1470.48	20.58		
11700.00	7715.49	7219.54	7183.72	94.53	4.82	49.31	-678.32	-1239.16	1629.90	1552.84	21.15		
11800.00	7713.39	7218.97	7183.29	97.19	4.81	49.28	-678.68	-1239.16	1715.91	1636.88	21.71		
11900.00	7711.29	7218.37	7182.82	99.86	4.80	49.24	-679.06	-1239.16	1803.36	1722.35	22.26		
12000.00	7709.19	7217.74	7182.34	102.54	4.79	49.19	-679.47	-1239.15	1892.06	1809.07	22.80		
12100.00	7707.08	7217.07	7181.82	105.21	4.78	49.15	-679.89	-1239.15	1981.83	1896.86	23.32		
12200.00	7704.98	7216.35	7181.26	107.90	4.77	49.10	-680.34	-1239.14	2072.54	1985.58	23.83		
12300.00	7702.88	7215.60	7180.68	110.58	4.76	49.05	-680.82	-1239.14	2164.07	2075.12	24.33		
12400.00	7700.78	7214.79	7180.05	113.27	4.75	49.00	-681.32	-1239.14	2256.32	2165.38	24.81		
12500.00	7698.68	7213.93	7179.38	115.96	4.74	48.94	-681.87	-1239.13	2349.20	2256.28	25.28		
12600.00	7696.58	7213.01	7178.66	118.66	4.73	48.88	-682.44	-1239.13	2442.64	2347.74	25.74		
12700.00	7694.48	7212.02	7177.89	121.35	4.71	48.81	-683.06	-1239.13	2536.58	2439.71	26.18		
12800.00	7692.38	7210.96	7177.07	124.05	4.70	48.74	-683.72	-1239.12	2630.97	2532.13	26.62		
12900.00	7690.28	7210.00	7176.31	126.75	4.68	48.67	-684.32	-1239.12	2725.76	2624.94	27.04		
13000.00	7688.18	7210.00	7176.31	129.46	4.68	48.67	-684.32	-1239.12	2820.91	2718.02	27.42		
13100.00	7686.08	7210.00	7176.31	132.16	4.68	48.67	-684.32	-1239.12	2916.38	2811.41	27.78		
13200.00	7683.97	7210.00	7176.31	134.87	4.68	48.67	-684.32	-1239.12	3012.14	2905.10	28.14		
13300.00	7681.87	7210.00	7176.31	137.58	4.68	48.67	-684.32	-1239.12	3108.18	2999.06	28.48		
13389.19	7680.00	7210.00	7176.31	140.00	4.68	48.67	-684.32	-1239.12	3194.03	3083.05	28.78		

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

GeoDec v5.03

Report Date: February 12, 2013

Job Number: _____

Customer: Devon Energy

Well Name: Spud 16 State #12H

API Number: _____

Rig Name: _____

Location: Eddy Co., NM

Block: _____

Engineer: RWJ

US State Plane 1983

System: New Mexico Eastern Zone

Projection: Transverse Mercator/Gauss Kruger

Datum: North American Datum 1983

Ellipsoid: GRS 1980

North/South 474247.080 USFT

East/West 649482.330 USFT

Grid Convergence: -19°

Total Correction: +7.47°

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Latitude 32.3032932 DEG

Longitude -103.9833095 DEG

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.30329° N 32° 18 min 11.855 sec

Longitude = 103.98331° W 103° 58 min 59.914 sec

Magnetic Declination = 7.66° [True North Offset]

Local Gravity = .9988 g CheckSum = 6504

Local Field Strength = 48422 nT Magnetic Vector X = 23925 nT

Magnetic Dip = 60.10° Magnetic Vector Y = 3216 nT

Magnetic Model = bggm2012 Magnetic Vector Z = 41976 nT

Spud Date = May 15, 2013 Magnetic Vector H = 24140 nT

Signed: _____

Date: _____