



Weatherford[®]

Drilling Services

Proposal



devon

SPUD 16 STATE #8H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 8, 2012

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devon

Spud 16 State #8H
Eddy Co., NM

KB ELEV: 2989
GL ELEV: 2971

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	90.81	0.00	0.00	0.00	0.00	0.00	0.00	
2	6973.85	0.00	90.81	6973.85	0.00	0.00	0.00	0.00	0.00	
3	8090.85	89.36	90.81	7690.00	-9.99	708.13	8.00	90.81	708.20	
4	11671.26	89.36	90.81	7730.00	-60.50	4287.96	0.00	0.00	4288.39	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Spud 16 State #8H	0.00	0.00	477055.47	645528.13	32°18'39.763N	103°59'45.899W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7730.00	-60.50	4287.96	476994.97	649816.09	32°18'39.028N	103°58'55.935W	Point



Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.51°

Magnetic Field
Strength: 48565nT
Dip Angle: 60.17°
Date: 4/10/2012
Model: IGRF2010

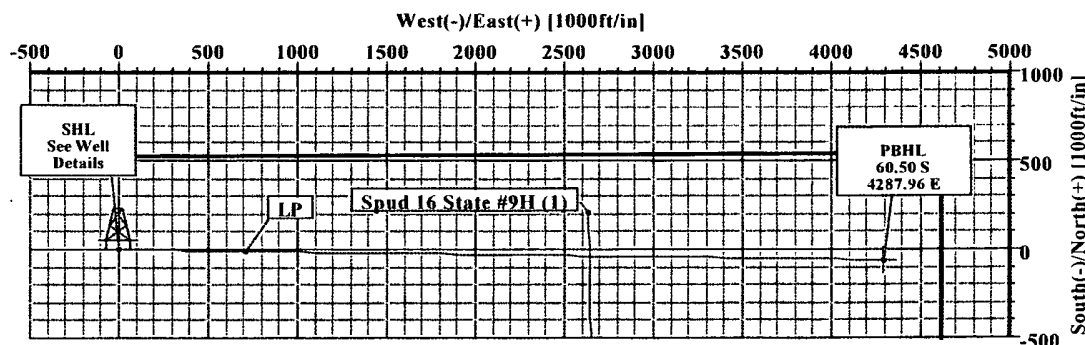
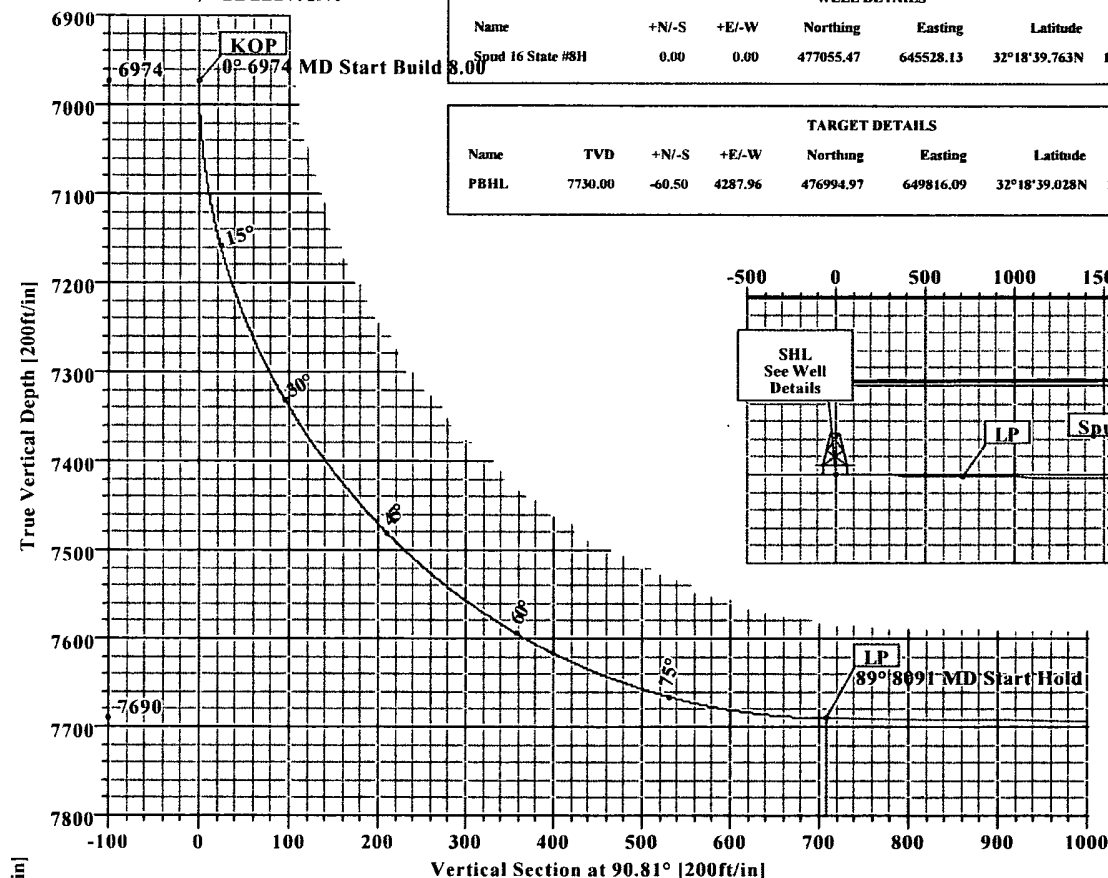
Total Correction to Grid North: 7.51°

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

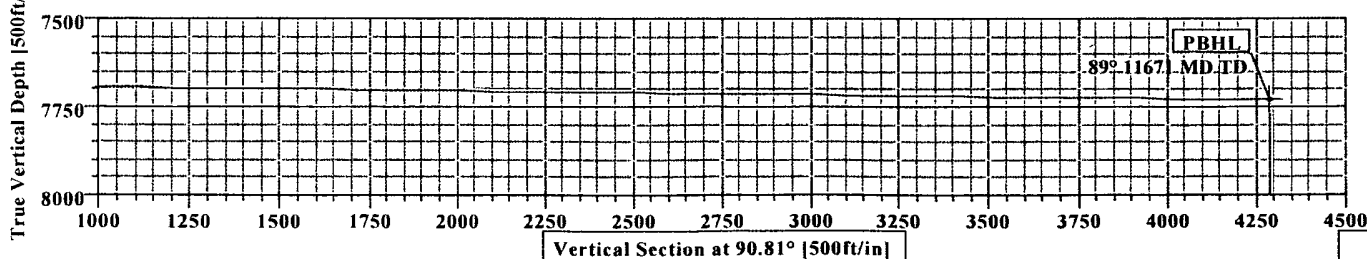


LEGEND

Spud 16 State #9H (1)
Plan #1

SITE DETAILS

Spud 16 State #8H
Site Centre Northing: 477055.47
Easting: 645528.13
Ground Level: 2971.00
Positional Uncertainty: 0.00
Convergence: 0.18



Plan: Plan #1 (Spud 16 State #8H/1)

Created By: Russell W. Joyner

Date: 3/8/2012



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy		Date: 3/8/2012	Time: 10:17:37	Page: 1						
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference:	Well: Spud 16 State #8H, Grid North:							
Site: Spud.16 State #8H		Vertical (TVD) Reference:	SITE 2989 0							
Well: Spud 16 State #8H		Section (VS) Reference:	Well: (0 00N,0.00E,90 81Azi)							
Wellpath: 1		Survey Calculation Method:	Minimum Curvature Db: Sybase							
Plan: Plan #1		Date Composed:	3/8/2012							
Principal: Yes		Version:	1							
		Tied-to:	From Surface							
Field: Eddy Co , NM (NAD 83)										
Map System: US State Plane Coordinate System 1983		Map Zone:	New Mexico, Eastern Zone							
Geo Datum: GRS 1980		Coordinate System:	Well Centre							
Sys Datum: Mean Sea Level		Geomagnetic Model:	IGRF2010							
Site: Spud 16 State #8H										
Site Position:	Northing:	477055.47 ft	Latitude:	32 18 39 763 N						
From: Map	Easting:	645528.13 ft	Longitude:	103 59 45 899 W						
Position Uncertainty:	0 00 ft		North Reference:	Grid						
Ground Level:	2971 00 ft		Grid Convergence:	0 18 deg						
Well: Spud 16 State #8H Slot Name:										
Well Position:	+N/-S 0 00 ft	Northing: 477055.47 ft	Latitude:	32 18 39 763 N						
	+E/-W 0 00 ft	Easting : 645528 13 ft	Longitude:	103 59 45 899 W						
Position Uncertainty:	0 00 ft									
Wellpath: 1 Drilled From: Surface										
Current Datum: SITE	Height 2989 00 ft	Tie-on Depth:	0 00 ft							
Magnetic Data: 4/10/2012		Above System Datum:	Mean Sea Level							
Field Strength: 48565 nT		Declination:	7.69 deg							
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle:	60 17 deg							
ft	ft	+E/-W	Direction							
		ft	deg							
0 00	0 00	0 00	90 81							
Plan Section Information										
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0 00	0.00	90 81	0 00	0.00	0 00	0 00	0 00	0 00	0 00	
6973 85	0 00	90 81	6973 85	0.00	0 00	0 00	0 00	0 00	0 00	
8090 85	89 36	90 81	7690.00	-9 99	708 13	8 00	8 00	0 00	90 81	
11671.26	89 36	90 81	7730 00	-60 50	4287 96	0.00	0 00	0 00	0 00	PBHL
Survey										
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
6900 00	0 00	90 81	6900 00	0 00	0 00	0 00	0 00	477055.47	645528 13	
6973 85	0 00	90 81	6973 85	0 00	0 00	0 00	0 00	477055.47	645528 13	KOP
7000 00	2 09	90 81	6999 99	-0 01	0 48	0 48	8 00	477055.46	645528 61	
7100 00	10 09	90 81	7099 35	-0 16	11 08	11 08	8 00	477055 31	645539 21	
7200 00	18 09	90 81	7196 26	-0 50	35 41	35 41	8 00	477054 97	645563 54	
7300 00	26 09	90 81	7288 84	-1 03	72 98	72 99	8 00	477054 44	645601 11	
7400 00	34 09	90 81	7375 30	-1 74	123 07	123 09	8 00	477053 73	645651 20	
7500 00	42 09	90 81	7453 93	-2 61	184 71	184 73	8 00	477052 86	645712 84	
7600 00	50 09	90 81	7523 23	-3 62	256 69	256 72	8 00	477051 85	645784 82	
7700 00	58 09	90 81	7581 83	-4 76	337 61	337 65	8 00	477050 71	645865 74	
7800 00	66 09	90 81	7628 60	-6 01	425 90	425 94	8 00	477049 46	645954 03	
7900 00	74 09	90 81	7662 62	-7 33	519 84	519 89	8 00	477048 14	646047 97	
8000 00	82 09	90 81	7683 24	-8 71	617 60	617 66	8 00	477046 76	646145 73	
8090 85	89 36	90 81	7690 00	-9 99	708 13	708 20	8 00	477045 48	646236 26	LP
8100 00	89 36	90 81	7690 10	-10 12	717 28	717 35	0 00	477045 35	646245 41	
8200 00	89 36	90 81	7691 22	-11 53	817 26	817 34	0 00	477043 94	646345 39	
8300 00	89 36	90 81	7692 34	-12 94	917 24	917 33	0 00	477042 53	646445 37	



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WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy Date: 3/8/2012 Time: 10 17 37 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Spud 16 State #8H; Grid North
Site: Spud 16 State #8H Vertical (TVD) Reference: SITE 2989.0
Well: Spud 16 State #8H Section (VS) Reference: Well (0.00N, 0.00E, 90.81Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8400.00	89.36	90.81	7693.46	-14.35	1017.23	1017.33	0.00	477041.12	646545.36	
8500.00	89.36	90.81	7694.57	-15.76	1117.21	1117.32	0.00	477039.71	646645.34	
8600.00	89.36	90.81	7695.69	-17.17	1217.19	1217.32	0.00	477038.30	646745.32	
8700.00	89.36	90.81	7696.81	-18.58	1317.18	1317.31	0.00	477036.89	646845.31	
8800.00	89.36	90.81	7697.92	-20.00	1417.16	1417.30	0.00	477035.47	646945.29	
8900.00	89.36	90.81	7699.04	-21.41	1517.15	1517.30	0.00	477034.06	647045.28	
9000.00	89.36	90.81	7700.16	-22.82	1617.13	1617.29	0.00	477032.65	647145.26	
9100.00	89.36	90.81	7701.28	-24.23	1717.11	1717.28	0.00	477031.24	647245.24	
9200.00	89.36	90.81	7702.39	-25.64	1817.10	1817.28	0.00	477029.83	647345.23	
9300.00	89.36	90.81	7703.51	-27.05	1917.08	1917.27	0.00	477028.42	647445.21	
9400.00	89.36	90.81	7704.63	-28.46	2017.06	2017.27	0.00	477027.01	647545.19	
9500.00	89.36	90.81	7705.74	-29.87	2117.05	2117.26	0.00	477025.60	647645.18	
9600.00	89.36	90.81	7706.86	-31.28	2217.03	2217.25	0.00	477024.19	647745.16	
9700.00	89.36	90.81	7707.98	-32.69	2317.02	2317.25	0.00	477022.78	647845.15	
9800.00	89.36	90.81	7709.10	-34.10	2417.00	2417.24	0.00	477021.37	647945.13	
9900.00	89.36	90.81	7710.21	-35.51	2516.98	2517.23	0.00	477019.96	648045.11	
10000.00	89.36	90.81	7711.33	-36.92	2616.97	2617.23	0.00	477018.55	648145.10	
10100.00	89.36	90.81	7712.45	-38.33	2716.95	2717.22	0.00	477017.14	648245.08	
10200.00	89.36	90.81	7713.56	-39.74	2816.94	2817.22	0.00	477015.73	648345.07	
10300.00	89.36	90.81	7714.68	-41.16	2916.92	2917.21	0.00	477014.31	648445.05	
10400.00	89.36	90.81	7715.80	-42.57	3016.90	3017.20	0.00	477012.90	648545.03	
10500.00	89.36	90.81	7716.92	-43.98	3116.89	3117.20	0.00	477011.49	648645.02	
10600.00	89.36	90.81	7718.03	-45.39	3216.87	3217.19	0.00	477010.08	648745.00	
10700.00	89.36	90.81	7719.15	-46.80	3316.85	3317.18	0.00	477008.67	648844.98	
10800.00	89.36	90.81	7720.27	-48.21	3416.84	3417.18	0.00	477007.26	648944.97	
10900.00	89.36	90.81	7721.38	-49.62	3516.82	3517.17	0.00	477005.85	649044.95	
11000.00	89.36	90.81	7722.50	-51.03	3616.81	3617.17	0.00	477004.44	649144.94	
11100.00	89.36	90.81	7723.62	-52.44	3716.79	3717.16	0.00	477003.03	649244.92	
11200.00	89.36	90.81	7724.74	-53.85	3816.77	3817.15	0.00	477001.62	649344.90	
11300.00	89.36	90.81	7725.85	-55.26	3916.76	3917.15	0.00	477000.21	649444.89	
11400.00	89.36	90.81	7726.97	-56.67	4016.74	4017.14	0.00	476998.80	649544.87	
11500.00	89.36	90.81	7728.09	-58.08	4116.72	4117.13	0.00	476997.39	649644.85	
11600.00	89.36	90.81	7729.20	-59.49	4216.71	4217.13	0.00	476995.98	649744.84	
11671.26	89.36	90.81	7730.00	-60.50	4287.96	4288.39	0.00	476994.97	649816.09	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			7730.00	-60.50	4287.96	476994.97	649816.09	32 18 39 028 N	103 58 55 935 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company:	Devon Energy	Date:	3/8/2012	Time:	10:17:37	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Spud 16 State #8H, Grid North				
Site:	Spud 16 State #8H	Vertical (TVD) Reference:	SITE 2989 0				
Well:	Spud 16 State #8H	Section (VS) Reference:	Well (0.00N, 0.00E, 90.81Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature Db: Sybase				

Annotation

MD ft	TVD ft	
6973.85	6973.85	KOP
8090.85	7690.00	LP
11671.26	7730.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 3/8/2012 Time: 10:40:47 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H Co-ordinate(NE) Reference: Well: Spud 16 State #8H, Grid North
Reference Well: Spud 16 State #8H Vertical (TVD) Reference: SITE 2989.0
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria

Interpolation Method: MD Interval: 30.00 ft
Depth Range: 0.00 to 11671.26 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: 3/8/2012

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Spud 16 State #9H	Spud 16 State #9H	1 V0 Plan Plan #1 V1	10230.00	10630.53	367.69	303.89	5.76	

Site: Spud 16 State #9H
Well: Spud 16 State #9H
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 TFO-HS deg	Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	8.00	-8.00	0.00	0.01	142.40	-3519.91	2710.39	4442.53		No Data
30.00	30.00	22.00	22.00	0.01	0.02	142.40	-3519.91	2710.39	4442.53		No Data
60.00	60.00	52.00	52.00	0.05	0.04	142.40	-3519.91	2710.39	4442.53	4442.43	48802.74
90.00	90.00	82.00	82.00	0.08	0.07	142.40	-3519.91	2710.39	4442.53	4442.38	29610.65
120.00	120.00	112.00	112.00	0.14	0.11	142.40	-3519.91	2710.39	4442.53	4442.28	17886.98
150.00	150.00	142.00	142.00	0.20	0.18	142.40	-3519.91	2710.39	4442.53	4442.14	11592.44
180.00	180.00	172.00	172.00	0.27	0.25	142.40	-3519.91	2710.39	4442.53	4442.01	8574.89
210.00	210.00	202.00	202.00	0.34	0.31	142.40	-3519.91	2710.39	4442.53	4441.87	6803.82
240.00	240.00	232.00	232.00	0.41	0.38	142.40	-3519.91	2710.39	4442.53	4441.74	5639.12
270.00	270.00	262.00	262.00	0.47	0.45	142.40	-3519.91	2710.39	4442.53	4441.60	4814.89
300.00	300.00	292.00	292.00	0.54	0.52	142.40	-3519.91	2710.39	4442.53	4441.47	4200.87
330.00	330.00	322.00	322.00	0.61	0.58	142.40	-3519.91	2710.39	4442.53	4441.33	3725.75
360.00	360.00	352.00	352.00	0.68	0.65	142.40	-3519.91	2710.39	4442.53	4441.20	3347.18
390.00	390.00	382.00	382.00	0.74	0.72	142.40	-3519.91	2710.39	4442.53	4441.06	3038.45
420.00	420.00	412.00	412.00	0.81	0.79	142.40	-3519.91	2710.39	4442.53	4440.93	2781.86
450.00	450.00	442.00	442.00	0.88	0.85	142.40	-3519.91	2710.39	4442.53	4440.79	2565.23
480.00	480.00	472.00	472.00	0.95	0.92	142.40	-3519.91	2710.39	4442.53	4440.66	2379.90
510.00	510.00	502.00	502.00	1.01	0.99	142.40	-3519.91	2710.39	4442.53	4440.52	2219.55
540.00	540.00	532.00	532.00	1.08	1.06	142.40	-3519.91	2710.39	4442.53	4440.39	2079.44
570.00	570.00	562.00	562.00	1.15	1.12	142.40	-3519.91	2710.39	4442.53	4440.25	1955.97
600.00	600.00	592.00	592.00	1.22	1.19	142.40	-3519.91	2710.39	4442.53	4440.12	1846.34
630.00	630.00	622.00	622.00	1.28	1.26	142.40	-3519.91	2710.39	4442.53	4439.98	1748.35
660.00	660.00	652.00	652.00	1.35	1.32	142.40	-3519.91	2710.39	4442.53	4439.85	1660.24
690.00	690.00	682.00	682.00	1.42	1.39	142.40	-3519.91	2710.39	4442.53	4439.71	1580.58
720.00	720.00	712.00	712.00	1.49	1.46	142.40	-3519.91	2710.39	4442.53	4439.58	1508.21
750.00	750.00	742.00	742.00	1.55	1.53	142.40	-3519.91	2710.39	4442.53	4439.44	1442.18
780.00	780.00	772.00	772.00	1.62	1.59	142.40	-3519.91	2710.39	4442.53	4439.31	1381.69
810.00	810.00	802.00	802.00	1.69	1.66	142.40	-3519.91	2710.39	4442.53	4439.18	1326.07
840.00	840.00	832.00	832.00	1.76	1.73	142.40	-3519.91	2710.39	4442.53	4439.04	1274.76
870.00	870.00	862.00	862.00	1.82	1.80	142.40	-3519.91	2710.39	4442.53	4438.91	1227.27
900.00	900.00	892.00	892.00	1.89	1.86	142.40	-3519.91	2710.39	4442.53	4438.77	1183.19
930.00	930.00	922.00	922.00	1.96	1.93	142.40	-3519.91	2710.39	4442.53	4438.64	1142.16
960.00	960.00	952.00	952.00	2.03	2.00	142.40	-3519.91	2710.39	4442.53	4438.50	1103.89
990.00	990.00	982.00	982.00	2.09	2.07	142.40	-3519.91	2710.39	4442.53	4438.37	1068.10
1020.00	1020.00	1012.00	1012.00	2.16	2.13	142.40	-3519.91	2710.39	4442.53	4438.23	1034.55
1050.00	1050.00	1042.00	1042.00	2.23	2.20	142.40	-3519.91	2710.39	4442.53	4438.10	1003.05



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10:40:47
Page: 2

Co-ordinate(NE) Reference: Well Spud 16 State #8H, Grid North
Vertical (TVD) Reference: SITE 2989 0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS deg	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
1080.00	1080.00	1072.00	1072.00	2.29	2.27	142.40	-3519.91	2710.39	4442.53	4437.96	973.41	
1110.00	1110.00	1102.00	1102.00	2.36	2.34	142.40	-3519.91	2710.39	4442.53	4437.83	945.47	
1140.00	1140.00	1132.00	1132.00	2.43	2.40	142.40	-3519.91	2710.39	4442.53	4437.69	919.09	
1170.00	1170.00	1162.00	1162.00	2.50	2.47	142.40	-3519.91	2710.39	4442.53	4437.56	894.15	
1200.00	1200.00	1192.00	1192.00	2.56	2.54	142.40	-3519.91	2710.39	4442.53	4437.42	870.52	
1230.00	1230.00	1222.00	1222.00	2.63	2.61	142.40	-3519.91	2710.39	4442.53	4437.29	848.11	
1260.00	1260.00	1252.00	1252.00	2.70	2.67	142.40	-3519.91	2710.39	4442.53	4437.15	826.82	
1290.00	1290.00	1282.00	1282.00	2.77	2.74	142.40	-3519.91	2710.39	4442.53	4437.02	806.57	
1320.00	1320.00	1312.00	1312.00	2.83	2.81	142.40	-3519.91	2710.39	4442.53	4436.88	787.30	
1350.00	1350.00	1342.00	1342.00	2.90	2.88	142.40	-3519.91	2710.39	4442.53	4436.75	768.92	
1380.00	1380.00	1372.00	1372.00	2.97	2.94	142.40	-3519.91	2710.39	4442.53	4436.61	751.38	
1410.00	1410.00	1402.00	1402.00	3.04	3.01	142.40	-3519.91	2710.39	4442.53	4436.48	734.63	
1440.00	1440.00	1432.00	1432.00	3.10	3.08	142.40	-3519.91	2710.39	4442.53	4436.34	718.60	
1470.00	1470.00	1462.00	1462.00	3.17	3.15	142.40	-3519.91	2710.39	4442.53	4436.21	703.26	
1500.00	1500.00	1492.00	1492.00	3.24	3.21	142.40	-3519.91	2710.39	4442.53	4436.07	688.56	
1530.00	1530.00	1522.00	1522.00	3.31	3.28	142.40	-3519.91	2710.39	4442.53	4435.94	674.46	
1560.00	1560.00	1552.00	1552.00	3.37	3.35	142.40	-3519.91	2710.39	4442.53	4435.80	660.93	
1590.00	1590.00	1582.00	1582.00	3.44	3.42	142.40	-3519.91	2710.39	4442.53	4435.67	647.93	
1620.00	1620.00	1612.00	1612.00	3.51	3.48	142.40	-3519.91	2710.39	4442.53	4435.53	635.43	
1650.00	1650.00	1642.00	1642.00	3.58	3.55	142.40	-3519.91	2710.39	4442.53	4435.40	623.41	
1680.00	1680.00	1672.00	1672.00	3.64	3.62	142.40	-3519.91	2710.39	4442.53	4435.26	611.83	
1710.00	1710.00	1702.00	1702.00	3.71	3.69	142.40	-3519.91	2710.39	4442.53	4435.13	600.67	
1740.00	1740.00	1732.00	1732.00	3.78	3.75	142.40	-3519.91	2710.39	4442.53	4434.99	589.92	
1770.00	1770.00	1762.00	1762.00	3.85	3.82	142.40	-3519.91	2710.39	4442.53	4434.86	579.54	
1800.00	1800.00	1792.00	1792.00	3.91	3.89	142.40	-3519.91	2710.39	4442.53	4434.72	569.52	
1830.00	1830.00	1822.00	1822.00	3.98	3.95	142.40	-3519.91	2710.39	4442.53	4434.59	559.84	
1860.00	1860.00	1852.00	1852.00	4.05	4.02	142.40	-3519.91	2710.39	4442.53	4434.45	550.48	
1890.00	1890.00	1882.00	1882.00	4.12	4.09	142.40	-3519.91	2710.39	4442.53	4434.32	541.44	
1920.00	1920.00	1912.00	1912.00	4.18	4.16	142.40	-3519.91	2710.39	4442.53	4434.19	532.68	
1950.00	1950.00	1942.00	1942.00	4.25	4.22	142.40	-3519.91	2710.39	4442.53	4434.05	524.20	
1980.00	1980.00	1972.00	1972.00	4.32	4.29	142.40	-3519.91	2710.39	4442.53	4433.92	515.99	
2010.00	2010.00	2002.00	2002.00	4.39	4.36	142.40	-3519.91	2710.39	4442.53	4433.78	508.04	
2040.00	2040.00	2032.00	2032.00	4.45	4.43	142.40	-3519.91	2710.39	4442.53	4433.65	500.32	
2070.00	2070.00	2062.00	2062.00	4.52	4.49	142.40	-3519.91	2710.39	4442.53	4433.51	492.83	
2100.00	2100.00	2092.00	2092.00	4.59	4.56	142.40	-3519.91	2710.39	4442.53	4433.38	485.57	
2130.00	2130.00	2122.00	2122.00	4.65	4.63	142.40	-3519.91	2710.39	4442.53	4433.24	478.52	
2160.00	2160.00	2152.00	2152.00	4.72	4.70	142.40	-3519.91	2710.39	4442.53	4433.11	471.66	
2190.00	2190.00	2182.00	2182.00	4.79	4.76	142.40	-3519.91	2710.39	4442.53	4432.97	465.01	
2220.00	2220.00	2212.00	2212.00	4.86	4.83	142.40	-3519.91	2710.39	4442.53	4432.84	458.53	
2250.00	2250.00	2242.00	2242.00	4.92	4.90	142.40	-3519.91	2710.39	4442.53	4432.70	452.24	
2280.00	2280.00	2272.00	2272.00	4.99	4.97	142.40	-3519.91	2710.39	4442.53	4432.57	446.11	
2310.00	2310.00	2302.00	2302.00	5.06	5.03	142.40	-3519.91	2710.39	4442.53	4432.43	440.15	
2340.00	2340.00	2332.00	2332.00	5.13	5.10	142.40	-3519.91	2710.39	4442.53	4432.30	434.35	
2370.00	2370.00	2362.00	2362.00	5.19	5.17	142.40	-3519.91	2710.39	4442.53	4432.16	428.70	
2400.00	2400.00	2392.00	2392.00	5.26	5.24	142.40	-3519.91	2710.39	4442.53	4432.03	423.19	
2430.00	2430.00	2422.00	2422.00	5.33	5.30	142.40	-3519.91	2710.39	4442.53	4431.89	417.82	
2460.00	2460.00	2452.00	2452.00	5.40	5.37	142.40	-3519.91	2710.39	4442.53	4431.76	412.59	
2490.00	2490.00	2482.00	2482.00	5.46	5.44	142.40	-3519.91	2710.39	4442.53	4431.62	407.49	
2520.00	2520.00	2512.00	2512.00	5.53	5.51	142.40	-3519.91	2710.39	4442.53	4431.49	402.51	
2550.00	2550.00	2542.00	2542.00	5.60	5.57	142.40	-3519.91	2710.39	4442.53	4431.35	397.65	
2580.00	2580.00	2572.00	2572.00	5.67	5.64	142.40	-3519.91	2710.39	4442.53	4431.22	392.91	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10:40 47
Page: 3

Co-ordinate(NE) Reference: Well: Spud 16 State #8H, Grd North
Vertical (TVD) Reference: SITE 2989.0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V0 Plan Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation		Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
2610.00	2610.00	2602.00	2602.00	5.73	5.71	142.40	-3519.91	2710.39	4442.53	4431.08	388.27	
2640.00	2640.00	2632.00	2632.00	5.80	5.78	142.40	-3519.91	2710.39	4442.53	4430.95	383.75	
2670.00	2670.00	2662.00	2662.00	5.87	5.84	142.40	-3519.91	2710.39	4442.53	4430.81	379.33	
2700.00	2700.00	2692.00	2692.00	5.94	5.91	142.40	-3519.91	2710.39	4442.53	4430.68	375.01	
2730.00	2730.00	2722.00	2722.00	6.00	5.98	142.40	-3519.91	2710.39	4442.53	4430.54	370.79	
2760.00	2760.00	2752.00	2752.00	6.07	6.05	142.40	-3519.91	2710.39	4442.53	4430.41	366.67	
2790.00	2790.00	2782.00	2782.00	6.14	6.11	142.40	-3519.91	2710.39	4442.53	4430.27	362.63	
2820.00	2820.00	2812.00	2812.00	6.21	6.18	142.40	-3519.91	2710.39	4442.53	4430.14	358.68	
2850.00	2850.00	2842.00	2842.00	6.27	6.25	142.40	-3519.91	2710.39	4442.53	4430.00	354.82	
2880.00	2880.00	2872.00	2872.00	6.34	6.31	142.40	-3519.91	2710.39	4442.53	4429.87	351.04	
2910.00	2910.00	2902.00	2902.00	6.41	6.38	142.40	-3519.91	2710.39	4442.53	4429.73	347.34	
2940.00	2940.00	2932.00	2932.00	6.48	6.45	142.40	-3519.91	2710.39	4442.53	4429.60	343.71	
2970.00	2970.00	2962.00	2962.00	6.54	6.52	142.40	-3519.91	2710.39	4442.53	4429.47	340.16	
3000.00	3000.00	2992.00	2992.00	6.61	6.58	142.40	-3519.91	2710.39	4442.53	4429.33	336.69	
3030.00	3030.00	3022.00	3022.00	6.68	6.65	142.40	-3519.91	2710.39	4442.53	4429.20	333.28	
3060.00	3060.00	3052.00	3052.00	6.75	6.72	142.40	-3519.91	2710.39	4442.53	4429.06	329.94	
3090.00	3090.00	3082.00	3082.00	6.81	6.79	142.40	-3519.91	2710.39	4442.53	4428.93	326.67	
3120.00	3120.00	3112.00	3112.00	6.88	6.85	142.40	-3519.91	2710.39	4442.53	4428.79	323.46	
3150.00	3150.00	3142.00	3142.00	6.95	6.92	142.40	-3519.91	2710.39	4442.53	4428.66	320.32	
3180.00	3180.00	3172.00	3172.00	7.01	6.99	142.40	-3519.91	2710.39	4442.53	4428.52	317.23	
3210.00	3210.00	3202.00	3202.00	7.08	7.06	142.40	-3519.91	2710.39	4442.53	4428.39	314.21	
3240.00	3240.00	3232.00	3232.00	7.15	7.12	142.40	-3519.91	2710.39	4442.53	4428.25	311.24	
3270.00	3270.00	3262.00	3262.00	7.22	7.19	142.40	-3519.91	2710.39	4442.53	4428.12	308.32	
3300.00	3300.00	3292.00	3292.00	7.28	7.26	142.40	-3519.91	2710.39	4442.53	4427.98	305.46	
3330.00	3330.00	3322.00	3322.00	7.35	7.33	142.40	-3519.91	2710.39	4442.53	4427.85	302.66	
3360.00	3360.00	3352.00	3352.00	7.42	7.39	142.40	-3519.91	2710.39	4442.53	4427.71	299.90	
3390.00	3390.00	3382.00	3382.00	7.49	7.46	142.40	-3519.91	2710.39	4442.53	4427.58	297.20	
3420.00	3420.00	3412.00	3412.00	7.55	7.53	142.40	-3519.91	2710.39	4442.53	4427.44	294.54	
3450.00	3450.00	3442.00	3442.00	7.62	7.60	142.40	-3519.91	2710.39	4442.53	4427.31	291.93	
3480.00	3480.00	3472.00	3472.00	7.69	7.66	142.40	-3519.91	2710.39	4442.53	4427.17	289.37	
3510.00	3510.00	3502.00	3502.00	7.76	7.73	142.40	-3519.91	2710.39	4442.53	4427.04	286.85	
3540.00	3540.00	3532.00	3532.00	7.82	7.80	142.40	-3519.91	2710.39	4442.53	4426.90	284.37	
3570.00	3570.00	3562.00	3562.00	7.89	7.87	142.40	-3519.91	2710.39	4442.53	4426.77	281.94	
3600.00	3600.00	3592.00	3592.00	7.96	7.93	142.40	-3519.91	2710.39	4442.53	4426.63	279.54	
3630.00	3630.00	3622.00	3622.00	8.03	8.00	142.40	-3519.91	2710.39	4442.53	4426.50	277.19	
3660.00	3660.00	3652.00	3652.00	8.09	8.07	142.40	-3519.91	2710.39	4442.53	4426.36	274.88	
3690.00	3690.00	3682.00	3682.00	8.16	8.14	142.40	-3519.91	2710.39	4442.53	4426.23	272.60	
3720.00	3720.00	3712.00	3712.00	8.23	8.20	142.40	-3519.91	2710.39	4442.53	4426.09	270.37	
3750.00	3750.00	3742.00	3742.00	8.30	8.27	142.40	-3519.91	2710.39	4442.53	4425.96	268.17	
3780.00	3780.00	3772.00	3772.00	8.36	8.34	142.40	-3519.91	2710.39	4442.53	4425.82	266.00	
3810.00	3810.00	3802.00	3802.00	8.43	8.41	142.40	-3519.91	2710.39	4442.53	4425.69	263.87	
3840.00	3840.00	10725.91	7400.00	8.50	67.06	88.89	51.24	2641.11	4439.45	4385.72	82.64	
3870.00	3870.00	10725.91	7400.00	8.57	67.06	88.89	51.24	2641.11	4415.37	4361.42	81.84	
3900.00	3900.00	10725.91	7400.00	8.63	67.06	88.89	51.24	2641.11	4391.37	4337.19	81.05	
3930.00	3930.00	10725.91	7400.00	8.70	67.06	88.89	51.24	2641.11	4367.44	4313.03	80.26	
3960.00	3960.00	10725.91	7400.00	8.77	67.06	88.89	51.24	2641.11	4343.59	4288.94	79.48	
3990.00	3990.00	10725.91	7400.00	8.84	67.06	88.89	51.24	2641.11	4319.81	4264.93	78.71	
4020.00	4020.00	10725.91	7400.00	8.90	67.06	88.89	51.24	2641.11	4296.12	4240.99	77.94	
4050.00	4050.00	10725.91	7400.00	8.97	67.06	88.89	51.24	2641.11	4272.50	4217.13	77.17	
4080.00	4080.00	10725.91	7400.00	9.04	67.06	88.89	51.24	2641.11	4248.96	4193.36	76.42	
4110.00	4110.00	10725.91	7400.00	9.11	67.06	88.89	51.24	2641.11	4225.50	4169.66	75.66	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10:40:47
Page: 4

Co-ordinate(NE) Reference: Well, Spud 16 State #8H, Grd North
Vertical (TVD) Reference: SITE 2989.0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 VO 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	Distance	Factor		
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	ft	ft		
4140.00	4140.00	10725.91	7400.00	9.17	67.06	88.89	51.24	2641.11	4202.13	4146.04	74.92			
4170.00	4170.00	10725.91	7400.00	9.24	67.06	88.89	51.24	2641.11	4178.84	4122.51	74.18			
4200.00	4200.00	10725.91	7400.00	9.31	67.06	88.89	51.24	2641.11	4155.64	4099.06	73.44			
4230.00	4230.00	10725.91	7400.00	9.37	67.06	88.89	51.24	2641.11	4132.52	4075.69	72.72			
4260.00	4260.00	10725.91	7400.00	9.44	67.06	88.89	51.24	2641.11	4109.50	4052.42	71.99			
4290.00	4290.00	10725.91	7400.00	9.51	67.06	88.89	51.24	2641.11	4086.56	4029.23	71.28			
4320.00	4320.00	10725.91	7400.00	9.58	67.06	88.89	51.24	2641.11	4063.72	4006.13	70.57			
4350.00	4350.00	10725.91	7400.00	9.64	67.06	88.89	51.24	2641.11	4040.97	3983.13	69.86			
4380.00	4380.00	10725.91	7400.00	9.71	67.06	88.89	51.24	2641.11	4018.31	3960.21	69.16			
4410.00	4410.00	10725.91	7400.00	9.78	67.06	88.89	51.24	2641.11	3995.76	3937.40	68.47			
4440.00	4440.00	10725.91	7400.00	9.85	67.06	88.89	51.24	2641.11	3973.30	3914.68	67.78			
4470.00	4470.00	10725.91	7400.00	9.91	67.06	88.89	51.24	2641.11	3950.94	3892.06	67.10			
4500.00	4500.00	10725.91	7400.00	9.98	67.06	88.89	51.24	2641.11	3928.68	3869.54	66.43			
4530.00	4530.00	10725.91	7400.00	10.05	67.06	88.89	51.24	2641.11	3906.53	3847.12	65.76			
4560.00	4560.00	10725.91	7400.00	10.12	67.06	88.89	51.24	2641.11	3884.48	3824.80	65.09			
4590.00	4590.00	10725.91	7400.00	10.18	67.06	88.89	51.24	2641.11	3862.54	3802.59	64.43			
4620.00	4620.00	10725.91	7400.00	10.25	67.06	88.89	51.24	2641.11	3840.70	3780.49	63.78			
4650.00	4650.00	10725.91	7400.00	10.32	67.06	88.89	51.24	2641.11	3818.98	3758.50	63.14			
4680.00	4680.00	10725.91	7400.00	10.39	67.06	88.89	51.24	2641.11	3797.37	3736.61	62.50			
4710.00	4710.00	10725.91	7400.00	10.45	67.06	88.89	51.24	2641.11	3775.88	3714.84	61.86			
4740.00	4740.00	10725.91	7400.00	10.52	67.06	88.89	51.24	2641.11	3754.50	3693.19	61.24			
4770.00	4770.00	10725.91	7400.00	10.59	67.06	88.89	51.24	2641.11	3733.24	3671.65	60.61			
4800.00	4800.00	10725.91	7400.00	10.66	67.06	88.89	51.24	2641.11	3712.11	3650.24	60.00			
4830.00	4830.00	10725.91	7400.00	10.72	67.06	88.89	51.24	2641.11	3691.09	3628.94	59.39			
4860.00	4860.00	10725.91	7400.00	10.79	67.06	88.89	51.24	2641.11	3670.20	3607.77	58.79			
4890.00	4890.00	10725.91	7400.00	10.86	67.06	88.89	51.24	2641.11	3649.44	3586.72	58.19			
4920.00	4920.00	10725.91	7400.00	10.93	67.06	88.89	51.24	2641.11	3628.80	3565.80	57.60			
4950.00	4950.00	10725.91	7400.00	10.99	67.06	88.89	51.24	2641.11	3608.30	3545.01	57.01			
4980.00	4980.00	10725.91	7400.00	11.06	67.06	88.89	51.24	2641.11	3587.93	3524.35	56.43			
5010.00	5010.00	10725.91	7400.00	11.13	67.06	88.89	51.24	2641.11	3567.70	3503.83	55.86			
5040.00	5040.00	10725.91	7400.00	11.20	67.06	88.89	51.24	2641.11	3547.60	3483.45	55.29			
5070.00	5070.00	10725.91	7400.00	11.26	67.06	88.89	51.24	2641.11	3527.65	3463.20	54.73			
5100.00	5100.00	10725.91	7400.00	11.33	67.06	88.89	51.24	2641.11	3507.84	3443.09	54.18			
5130.00	5130.00	10725.91	7400.00	11.40	67.06	88.89	51.24	2641.11	3488.17	3423.13	53.63			
5160.00	5160.00	10725.91	7400.00	11.47	67.06	88.89	51.24	2641.11	3468.66	3403.32	53.09			
5190.00	5190.00	10725.91	7400.00	11.53	67.06	88.89	51.24	2641.11	3449.29	3383.66	52.56			
5220.00	5220.00	10725.91	7400.00	11.60	67.06	88.89	51.24	2641.11	3430.07	3364.15	52.03			
5250.00	5250.00	10725.91	7400.00	11.67	67.06	88.89	51.24	2641.11	3411.02	3344.79	51.50			
5280.00	5280.00	10725.91	7400.00	11.74	67.06	88.89	51.24	2641.11	3392.12	3325.59	50.99			
5310.00	5310.00	10725.91	7400.00	11.80	67.06	88.89	51.24	2641.11	3373.38	3306.55	50.48			
5340.00	5340.00	10725.91	7400.00	11.87	67.06	88.89	51.24	2641.11	3354.80	3287.67	49.97			
5370.00	5370.00	10725.91	7400.00	11.94	67.06	88.89	51.24	2641.11	3336.39	3268.96	49.48			
5400.00	5400.00	10725.91	7400.00	12.00	67.06	88.89	51.24	2641.11	3318.15	3250.42	48.99			
5430.00	5430.00	10725.91	7400.00	12.07	67.06	88.89	51.24	2641.11	3300.08	3232.04	48.50			
5460.00	5460.00	10725.91	7400.00	12.14	67.06	88.89	51.24	2641.11	3282.19	3213.85	48.02			
5490.00	5490.00	10725.91	7400.00	12.21	67.06	88.89	51.24	2641.11	3264.47	3195.83	47.55			
5520.00	5520.00	10725.91	7400.00	12.27	67.06	88.89	51.24	2641.11	3246.94	3177.98	47.09			
5550.00	5550.00	10725.91	7400.00	12.34	67.06	88.89	51.24	2641.11	3229.59	3160.33	46.63			
5580.00	5580.00	10725.91	7400.00	12.41	67.06	88.89	51.24	2641.11	3212.42	3142.86	46.18			
5610.00	5610.00	10725.91	7400.00	12.48	67.06	88.89	51.24	2641.11	3195.45	3125.57	45.73			
5640.00	5640.00	10725.91	7400.00	12.54	67.06	88.89	51.24	2641.11	3178.66	3108.48	45.29			



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10 40 47
Page: 5

Co-ordinate(NE) Reference: Well: Spud 16 State #8H, Grid North
Vertical (TVD) Reference: SITE 2989 0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V0 Plan. Plan #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 Distance	Edge Distance	Separation Factor	Warning
5670 00	5670 00	10725 91	7400.00	12 61	67.06	88.89	51 24	2641 11	3162 07	3091.59	44.86	
5700.00	5700.00	10725 91	7400.00	12 68	67.06	88.89	51 24	2641 11	3145.68	3074.89	44.44	
5730 00	5730.00	10725.91	7400 00	12 75	67.06	88.89	51 24	2641 11	3129.50	3058.40	44.02	
5760 00	5760.00	10725 91	7400 00	12 81	67.06	88.89	51 24	2641 11	3113.51	3042.11	43.61	
5790 00	5790.00	10725 91	7400.00	12 88	67.06	88.89	51 24	2641 11	3097.74	3026.03	43.20	
5820 00	5820 00	10725.91	7400 00	12 95	67.06	88.89	51 24	2641 11	3082.18	3010.17	42.80	
5850.00	5850.00	10725.91	7400 00	13 02	67.06	88.89	51.24	2641.11	3066.83	2994.51	42.41	
5880 00	5880.00	10725.91	7400 00	13 08	67.06	88.89	51 24	2641 11	3051.70	2979.08	42.02	
5910 00	5910 00	10725 91	7400 00	13 15	67.06	88.89	51 24	2641 11	3036.79	2963.87	41.65	
5940.00	5940.00	10725 91	7400 00	13 22	67.06	88.89	51 24	2641 11	3022.10	2948.88	41.27	
5970 00	5970 00	10725 91	7400 00	13 29	67.06	88.89	51.24	2641.11	3007.64	2934.12	40.91	
6000 00	6000 00	10725 91	7400.00	13.35	67.06	88.89	51 24	2641.11	2993.41	2919.60	40.55	
6030 00	6030 00	10725.91	7400 00	13 42	67.06	88.89	51 24	2641 11	2979.42	2905.31	40.20	
6060 00	6060 00	10725 91	7400 00	13 49	67.06	88.89	51 24	2641 11	2965.67	2891.25	39.86	
6090 00	6090 00	10725 91	7400 00	13 56	67.06	88.89	51.24	2641.11	2952.15	2877.45	39.52	
6120 00	6120 00	10725 91	7400.00	13 62	67.06	88.89	51.24	2641.11	2938.88	2863.88	39.19	
6150 00	6150.00	10725 91	7400 00	13 69	67.06	88.89	51 24	2641.11	2925.86	2850.57	38.86	
6180 00	6180 00	10725 91	7400 00	13 76	67.06	88.89	51 24	2641.11	2913.08	2837.51	38.55	
6210 00	6210.00	10725 91	7400 00	13 83	67.06	88.89	51 24	2641 11	2900.56	2824.70	38.24	
6240 00	6240 00	10725.91	7400 00	13 89	67.06	88.89	51 24	2641 11	2888.30	2812.16	37.93	
6270.00	6270.00	10725.91	7400 00	13 96	67.06	88.89	51 24	2641.11	2876.30	2799.88	37.64	
6300 00	6300 00	10725 91	7400 00	14 03	67.06	88.89	51 24	2641 11	2864.56	2787.86	37.35	
6330.00	6330 00	10725 91	7400 00	14 10	67.06	88.89	51 24	2641 11	2853.09	2776.12	37.07	
6360 00	6360 00	10725 91	7400 00	14 16	67.06	88.89	51 24	2641 11	2841.90	2764.65	36.79	
6390 00	6390 00	10725 91	7400 00	14 23	67.06	88.89	51 24	2641 11	2830.97	2753.46	36.52	
6420 00	6420 00	10725 91	7400.00	14 30	67.06	88.89	51.24	2641.11	2820.32	2742.54	36.26	
6450 00	6450 00	10725 91	7400 00	14.36	67.06	88.89	51 24	2641 11	2809.95	2731.91	36.01	
6480.00	6480 00	10725 91	7400 00	14.43	67.06	88.89	51 24	2641 11	2799.87	2721.57	35.76	
6510 00	6510.00	10725 91	7400 00	14 50	67.06	88.89	51 24	2641 11	2790.07	2711.52	35.52	
6540 00	6540.00	10725 91	7400 00	14 57	67.06	88.89	51 24	2641.11	2780.56	2701.76	35.29	
6570 00	6570 00	10725.91	7400 00	14 63	67.06	88.89	51 24	2641 11	2771.34	2692.29	35.06	
6600 00	6600 00	10725 91	7400 00	14 70	67.06	88.89	51 24	2641.11	2762.41	2683.13	34.84	
6630 00	6630 00	10725 91	7400.00	14 77	67.06	88.89	51 24	2641 11	2753.79	2674.27	34.63	
6660 00	6660 00	10725 91	7400 00	14.84	67.06	88.89	51.24	2641.11	2745.46	2665.71	34.42	
6690 00	6690.00	10725 91	7400 00	14 90	67.06	88.89	51 24	2641 11	2737.44	2657.46	34.23	
6720 00	6720.00	10725 91	7400.00	14 97	67.06	88.89	51 24	2641.11	2729.73	2649.53	34.04	
6750 00	6750 00	10725.91	7400 00	15.04	67.06	88.89	51 24	2641 11	2722.32	2641.90	33.85	
6780 00	6780 00	10725 91	7400 00	15 11	67.06	88.89	51 24	2641 11	2715.23	2634.60	33.68	
6810 00	6810 00	10725 91	7400 00	15 17	67.06	88.89	51 24	2641.11	2708.44	2627.61	33.51	
6840 00	6840 00	10725 91	7400 00	15 24	67.06	88.89	51.24	2641.11	2701.98	2620.95	33.34	
6870 00	6870 00	10725 91	7400 00	15 31	67.06	88.89	51 24	2641.11	2695.83	2614.61	33.19	
6900 00	6900 00	10725 91	7400 00	15.38	67.06	88.89	51.24	2641.11	2690.01	2608.59	33.04	
6930.00	6930 00	10725 91	7400 00	15 44	67.06	88.89	51 24	2641 11	2684.50	2602.91	32.90	
6960 00	6960 00	10725 91	7400 00	15 51	67.06	88.89	51 24	2641.11	2679.32	2597.55	32.77	
6990 00	6990 00	10725 91	7400 00	15 58	67.06	358.07	51 24	2641.11	2674.29	2592.36	32.64	
7020 00	7019.97	10725 86	7400 00	15 65	67.06	358.06	51 19	2641 11	2668.48	2586.41	32.51	
7050.00	7049.86	10725 78	7400.00	15 71	67.06	358.04	51 11	2641 11	2661.77	2579.58	32.39	
7080 00	7079.61	10725 65	7400.00	15 78	67.05	358.02	50 98	2641 11	2654.15	2571.89	32.26	
7110 00	7109.18	10725 48	7400 00	15 85	67.05	358.00	50.81	2641.11	2645.64	2563.32	32.14	
7140.00	7138.51	10725 27	7400 00	15 92	67.05	357.98	50 60	2641.12	2636.24	2553.90	32.02	
7170 00	7167.56	10725 02	7400 00	15 98	67.04	357.95	50.35	2641.12	2625.96	2543.62	31.89	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD.83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10.40 47
Page: 6

Co-ordinate(NE) Reference: Well Spud.16 State #8H; Grid North
Vertical (TVD) Reference: SITE:2989.0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 VO 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.		
7200.00	7196.26	10724.73	7400.00	16.05	67.04	357.93	50.06	2641.13	2614.80	2532.50	31.77	
7230.00	7224.57	10724.40	7400.00	16.13	67.03	357.89	49.72	2641.14	2602.78	2520.54	31.65	
7260.00	7252.45	10724.02	7400.00	16.20	67.02	357.86	49.35	2641.14	2589.90	2507.76	31.53	
7290.00	7279.83	10723.61	7400.00	16.28	67.02	357.83	48.94	2641.15	2576.18	2494.15	31.40	
7320.00	7306.68	10723.17	7400.00	16.36	67.01	357.79	48.50	2641.16	2561.62	2479.73	31.28	
7350.00	7332.94	10722.68	7400.00	16.45	67.00	357.74	48.01	2641.17	2546.24	2464.51	31.16	
7380.00	7358.58	10722.16	7400.00	16.55	66.99	357.70	47.49	2641.18	2530.04	2448.50	31.03	
7410.00	7383.54	10721.60	7400.00	16.66	66.98	357.64	46.93	2641.19	2513.04	2431.72	30.90	
7440.00	7407.78	10721.01	7400.00	16.77	66.97	357.59	46.34	2641.20	2495.26	2414.17	30.77	
7470.00	7431.26	10720.38	7400.00	16.90	66.96	357.52	45.71	2641.21	2476.71	2395.86	30.63	
7500.00	7453.93	10719.72	7400.00	17.04	66.95	357.46	45.06	2641.23	2457.41	2376.82	30.49	
7530.00	7475.77	10719.04	7400.00	17.21	66.94	357.38	44.37	2641.24	2437.36	2357.06	30.35	
7560.00	7496.72	10718.32	7400.00	17.38	66.92	357.30	43.65	2641.25	2416.59	2336.59	30.20	
7590.00	7516.76	10717.57	7400.00	17.58	66.91	357.21	42.90	2641.27	2395.12	2315.42	30.05	
7620.00	7535.84	10716.79	7400.00	17.80	66.90	357.10	42.12	2641.28	2372.97	2293.58	29.89	
7650.00	7553.94	10715.99	7400.00	18.03	66.88	356.99	41.32	2641.30	2350.15	2271.08	29.72	
7680.00	7571.02	10715.17	7400.00	18.30	66.87	356.86	40.50	2641.31	2326.68	2247.94	29.55	
7710.00	7587.05	10714.32	7400.00	18.58	66.85	356.71	39.65	2641.33	2302.60	2224.18	29.36	
7740.00	7602.01	10713.44	7400.00	18.89	66.84	356.55	38.78	2641.35	2277.91	2199.82	29.17	
7770.00	7615.87	10712.55	7400.00	19.23	66.82	356.36	37.89	2641.37	2252.66	2174.87	28.96	
7800.00	7628.60	10711.64	7400.00	19.59	66.80	356.14	36.98	2641.38	2226.85	2149.37	28.74	
7830.00	7640.18	10710.72	7400.00	19.98	66.79	355.88	36.05	2641.40	2200.52	2123.32	28.50	
7860.00	7650.59	10709.77	7400.00	20.40	66.77	355.58	35.11	2641.42	2173.70	2096.77	28.25	
7890.00	7659.81	10708.82	7400.00	20.84	66.75	355.22	34.15	2641.44	2146.42	2069.72	27.99	
7920.00	7667.83	10707.85	7400.00	21.30	66.74	354.78	33.18	2641.46	2118.70	2042.20	27.70	
7950.00	7674.63	10706.87	7400.00	21.78	66.72	354.24	32.20	2641.48	2090.58	2014.25	27.39	
7980.00	7680.21	10705.88	7400.00	22.29	66.70	353.55	31.22	2641.49	2062.09	1985.87	27.05	
8010.00	7684.54	10704.89	7400.00	22.82	66.68	352.65	30.22	2641.51	2033.27	1957.10	26.69	
8040.00	7687.63	10703.89	7400.00	23.36	66.67	351.44	29.22	2641.53	2004.16	1927.94	26.29	
8070.00	7689.47	10702.89	7400.00	23.92	66.65	349.69	28.22	2641.55	1974.80	1898.37	25.84	
8100.00	7690.10	10701.88	7400.00	24.49	66.63	348.01	27.22	2641.57	1945.22	1868.50	25.35	
8130.00	7690.44	10700.88	7400.00	25.09	66.61	348.19	26.21	2641.59	1915.61	1838.81	24.94	
8160.00	7690.78	10699.87	7400.00	25.69	66.59	348.37	25.21	2641.61	1886.02	1809.13	24.53	
8190.00	7691.11	10698.87	7400.00	26.29	66.58	348.55	24.20	2641.63	1856.43	1779.47	24.12	
8220.00	7691.45	10697.86	7400.00	26.92	66.56	348.74	23.20	2641.65	1826.86	1749.82	23.71	
8250.00	7691.78	10696.86	7400.00	27.56	66.54	348.92	22.19	2641.67	1797.30	1720.18	23.31	
8280.00	7692.12	10695.85	7400.00	28.20	66.52	349.10	21.19	2641.69	1767.75	1690.56	22.90	
8310.00	7692.45	10694.85	7400.00	28.84	66.51	349.28	20.18	2641.71	1738.22	1660.95	22.49	
8340.00	7692.79	10693.84	7400.00	29.51	66.49	349.47	19.18	2641.73	1708.71	1631.35	22.09	
8370.00	7693.12	10692.84	7400.00	30.18	66.47	349.65	18.17	2641.75	1679.21	1601.77	21.68	
8400.00	7693.46	10691.83	7400.00	30.85	66.45	349.83	17.17	2641.77	1649.73	1572.22	21.28	
8430.00	7693.79	10690.83	7400.00	31.54	66.43	350.02	16.16	2641.79	1620.27	1542.67	20.88	
8460.00	7694.13	10689.82	7400.00	32.23	66.42	350.20	15.16	2641.81	1590.83	1513.15	20.48	
8490.00	7694.46	10688.82	7400.00	32.93	66.40	350.39	14.15	2641.83	1561.40	1483.65	20.08	
8520.00	7694.80	10687.81	7400.00	33.63	66.38	350.57	13.15	2641.85	1532.00	1454.17	19.68	
8550.00	7695.13	10686.81	7400.00	34.34	66.36	350.76	12.14	2641.86	1502.63	1424.72	19.29	
8580.00	7695.47	10685.80	7400.00	35.05	66.34	350.94	11.14	2641.88	1473.28	1395.29	18.89	
8610.00	7695.80	10684.80	7400.00	35.77	66.33	351.12	10.13	2641.90	1443.95	1365.90	18.50	
8640.00	7696.14	10683.79	7400.00	36.50	66.31	351.31	9.13	2641.92	1414.65	1336.53	18.11	
8670.00	7696.47	10682.79	7400.00	37.22	66.29	351.50	8.12	2641.94	1385.38	1307.19	17.72	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1

Date: 3/8/2012
Time: 10:40 47
Page: 7

Co-ordinate(NE) Reference: Well: Spud 16 State #8H, Grid North
Vertical (TVD) Reference: SITE 2989 0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
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	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	ft	ft	ft	ft	
8700 00	7696 81	10681 78	7400 00	37.95	66 27	351 68	7 12	2641 96	1356 14	1277 89	17 33				
8730 00	7697 14	10680 78	7400 00	38.69	66 26	351 87	6 11	2641 98	1326 94	1248 62	16 94				
8760 00	7697 48	10679 77	7400 00	39 43	66 24	352 05	5 11	2642 00	1297 77	1219 40	16 56				
8790 00	7697 81	10678 77	7400 00	40 17	66 22	352 24	4 10	2642 02	1268 64	1190 21	16 18				
8820 00	7698 15	10677 76	7400 00	40 92	66 20	352 42	3 10	2642 04	1239 54	1161 07	15 80				
8850 00	7698 48	10676 76	7400 00	41 67	66 18	352 61	2 10	2642 06	1210 50	1131 98	15 42				
8880 00	7698 82	10675 75	7400 00	42 42	66 17	352 80	1 09	2642 08	1181 50	1102 94	15 04				
8910 00	7699 15	10674 75	7400 00	43 17	66 15	352 98	0 09	2642 10	1152 55	1073 96	14 67				
8940 00	7699 49	10673 74	7400 00	43 93	66 13	353 17	-0 92	2642 12	1123 65	1045 04	14 29				
8970 00	7699 82	10672 74	7400 00	44 69	66 11	353 36	-1 92	2642 14	1094 81	1016 18	13 92				
9000 00	7700 16	10671 73	7400 00	45 45	66 09	353 55	-2 93	2642 16	1066 04	987 40	13 56				
9030 00	7700 49	10670 73	7400 00	46 22	66 08	353 73	-3 93	2642 18	1037 33	958 69	13 19				
9060 00	7700 83	10669 72	7400 00	46 98	66 06	353 92	-4 94	2642 20	1008 70	930 07	12 83				
9090 00	7701 16	10668 72	7400 00	47 75	66 04	354 11	-5 94	2642 22	980 15	901 55	12 47				
9120 00	7701 50	10667 71	7400 00	48 52	66 02	354 29	-6 95	2642 24	951 68	873 12	12 11				
9150 00	7701 83	10666 71	7400 00	49 29	66 01	354 48	-7 95	2642 25	923 32	844 80	11 76				
9180 00	7702 17	10665 70	7400 00	50 07	65 99	354 67	-8 96	2642 27	895 05	816 61	11 41				
9210 00	7702 50	10664 70	7400 00	50 84	65 97	354 86	-9 96	2642 29	866 91	788 55	11 06				
9240 00	7702 84	10663 69	7400 00	51 62	65 95	355 05	-10 97	2642 31	838 89	760 63	10 72				
9270 00	7703 18	10662 69	7400 00	52 40	65 93	355 23	-11 97	2642 33	811 01	732 89	10 38				
9300 00	7703 51	10661 68	7400 00	53 17	65 92	355 42	-12 98	2642 35	783 29	705 32	10 05				
9330 00	7703 85	10660 68	7400 00	53 96	65 90	355 61	-13 98	2642 37	755 74	677 96	9 72				
9360 00	7704 18	10659 67	7400 00	54 74	65 88	355 80	-14 99	2642 39	728 38	650 83	9 39				
9390 00	7704 52	10658 67	7400 00	55 52	65 86	355 99	-15 99	2642 41	701 24	623 95	9 07				
9420 00	7704 85	10657 66	7400 00	56 31	65 84	356 18	-17 00	2642 43	674 34	597 37	8 76				
9450 00	7705 19	10656 66	7400 00	57 10	65 83	356 37	-18 00	2642 45	647 70	571 11	8 46				
9480 00	7705 52	10655 65	7400 00	57 88	65 81	356 56	-19 01	2642 47	621 38	545 21	8 16				
9510 00	7705 86	10654 65	7400 00	58 67	65 79	356 74	-20 01	2642 49	595 40	519 74	7 87				
9540 00	7706 19	10653 64	7400 00	59 46	65 77	356 93	-21 02	2642 51	569 81	494 75	7 59				
9570 00	7706 53	10652 64	7400 00	60 25	65 76	357 12	-22 02	2642 53	544 67	470 31	7 32				
9600 00	7706 86	10651 63	7400 00	61 04	65 74	357 31	-23 02	2642 55	520 05	446 51	7 07				
9630 00	7707 20	10650 63	7400 00	61 84	65 72	357 50	-24 03	2642 57	496 01	423 43	6 83				
9660 00	7707 53	10649 62	7400 00	62 63	65 70	357 69	-25 03	2642 59	472 66	401 19	6 61				
9690 00	7707 87	10648 62	7400 00	63 42	65 68	357 88	-26 04	2642 61	450 09	379 93	6 42				
9720 00	7708 20	10647 61	7400 00	64 22	65 67	358 07	-27 04	2642 62	428 43	359 79	6 24				
9750 00	7708 54	10646 61	7400 00	65 01	65 65	358 26	-28 05	2642 64	407 83	340 95	6 10				
9780 00	7708 87	10645 60	7400 00	65 81	65 63	358 45	-29 05	2642 66	388 45	323 60	5 99				
9810 00	7709 21	10644 60	7400 00	66 61	65 61	358 64	-30 06	2642 68	370 49	307 94	5 92				
9840 00	7709 54	10643 59	7400 00	67 41	65 60	358 83	-31 06	2642 70	354 16	294 18	5 90				
9870 00	7709 88	10642 59	7400 00	68 20	65 58	359 02	-32 07	2642 72	339 69	282 53	5 94				
9900 00	7710 21	10641 58	7400 00	69 00	65 56	359 20	-33 07	2642 74	327 34	273 13	6 04				
9930 00	7710 55	10640 58	7400 00	69 80	65 54	359 39	-34 08	2642 76	317 35	266 04	6 19				
9960 00	7710 88	10639 57	7400 00	70 60	65 52	-0 42	-35 08	2642 78	309 95	261 22	6 36				
9990 00	7711 22	10638 57	7400 00	71 40	65 51	-0 23	-36 09	2642 80	305 33	258 45	6 51				
10020 00	7711 55	10637 56	7400 00	72 21	65 49	-0 04	-37 09	2642 82	303 61	257 46	6 58				
10050 00	7711 89	10636 56	7400 00	73 01	65 47	0 15	-38 10	2642 84	304 84	258 11	6 52				
10080 00	7712 22	10635 55	7400 00	73 81	65 45	0 34	-39 10	2642 86	309 00	260 45	6 36				
10110 00	7712 56	10634 55	7400 00	74 61	65 43	0 53	-40 11	2642 88	315 95	264 73	6 17				
10140 00	7712 89	10633 54	7400 00	75 42	65 42	0 72	-41 11	2642 90	325 53	271 17	5 99				
10170 00	7713 23	10632 54	7400 00	76 22	65 40	0 91	-42 12	2642 92	337 51	279 89	5 86				
10200 00	7713 56	10631 53	7400 00	77 03	65 38	1 10	-43 12	2642 94	351 65	290 83	5 78				



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #8H
Reference Well: Spud 16 State #8H
Reference Wellpath: 1
Date: 3/8/2012
Time: 10 40 47
Page: 8
Co-ordinate(NE) Reference: Well Spud 16 State #8H, Grid North
Vertical (TVD) Reference: SITE 2989.0
Db: Sybase

Site: Spud 16 State #9H
Well: Spud 16 State #9H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		TFO-HS	Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset		North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
10230 00	7713 90	10630 53	7400 00	77 83	65 36	1 29	-44 13	2642.96	367.69	303.89	5.76	
10260 00	7714 23	10629 52	7400 00	78.64	65.35	1 48	-45 13	2642.98	385 40	318 87	5 79	
10290 00	7714 57	10628 52	7400 00	79.44	65 33	1 67	-46 14	2643.00	404.56	335 57	5.86	
10320 00	7714 90	10627 51	7400 00	80.25	65 31	1 86	-47 14	2643 01	424 97	353.79	5.97	
10350 00	7715 24	10626 51	7400 00	81 06	65 29	2 05	-48 14	2643 03	446 47	373 33	6 10	
10380 00	7715 58	10625 50	7400 00	81 87	65 27	2 24	-49 15	2643.05	468 89	394 01	6 26	
10410 00	7715 91	10624 50	7400 00	82 67	65 26	2 43	-50 15	2643.07	492 13	415 70	6 44	
10440 00	7716 25	10623 49	7400 00	83 48	65 24	2 61	-51 16	2643 09	516 06	438.24	6.63	
10470 00	7716 58	10622 49	7400 00	84 29	65.22	2.80	-52 16	2643 11	540 59	461 53	6 84	
10500 00	7716 92	10621 48	7400 00	85 10	65 20	2 99	-53 17	2643 13	565 65	485 47	7.06	
10530 00	7717 25	10620 48	7400 00	85 91	65.18	3 18	-54 17	2643 15	591 17	509 97	7 28	
10560 00	7717 59	10619 47	7400 00	86 72	65 17	3 37	-55 18	2643 17	617 08	534 96	7 51	
10590 00	7717 92	10618 47	7400 00	87 53	65 15	3 56	-56 18	2643 19	643.36	560 38	7 75	
10620 00	7718 26	10617 46	7400 00	88 34	65 13	3 75	-57 19	2643 21	669 94	586.17	8 00	
10650 00	7718 59	10616 46	7400 00	89 15	65 11	3 94	-58 19	2643 23	696 80	612 29	8 25	
10680 00	7718 93	10615 45	7400 00	89 96	65.10	4 13	-59 20	2643 25	723 91	638 71	8 50	
10710 00	7719 26	10614 45	7400 00	90 77	65 08	4 31	-60 20	2643 27	751 23	665 39	8 75	
10740 00	7719 60	10613 44	7400 00	91 58	65 06	4 50	-61 21	2643 29	778 75	692 29	9 01	
10770 00	7719 93	10612 44	7400 00	92 39	65 04	4 69	-62 21	2643 31	806 45	719 40	9 26	
10800 00	7720 27	10611 43	7400 00	93 20	65 02	4 88	-63 22	2643 33	834 30	746 70	9 52	
10830 00	7720 60	10610 43	7400 00	94 02	65 01	5 07	-64 22	2643 35	862 30	774 15	9 78	
10860 00	7720 94	10609 42	7400 00	94 83	64 99	5 26	-65 23	2643 37	890 42	801 76	10 04	
10890 00	7721 27	10608 42	7400 00	95 64	64 97	5 44	-66 23	2643 39	918 67	829 50	10 30	
10920 00	7721 61	10607 41	7400 00	96 45	64 95	5 63	-67 24	2643 40	947.02	857 36	10 56	
10950 00	7721 94	10606 41	7400 00	97 27	64 93	5 82	-68 24	2643 42	975 46	885 33	10 82	
10980 00	7722 28	10605 40	7400 00	98 08	64 92	6 01	-69 25	2643 44	1004 00	913 40	11 08	
11010 00	7722 61	10604 40	7400 00	98 89	64 90	6 19	-70 25	2643 46	1032 62	941 55	11 34	
11040 00	7722 95	10603 39	7400 00	99 71	64 88	6 38	-71 26	2643 48	1061.31	969 79	11 60	
11070 00	7723 28	10602 39	7400 00	100 52	64 86	6 57	-72 26	2643 50	1090 08	998 11	11 85	
11100 00	7723 62	10601 38	7400 00	101 33	64 85	6 76	-73 26	2643 52	1118 91	1026 49	12 11	
11130 00	7723 95	10600 38	7400 00	102 15	64 83	6 94	-74 27	2643 54	1147 79	1054.94	12 36	
11160 00	7724 29	10599 37	7400 00	102 96	64 81	7 13	-75 27	2643 56	1176 74	1083 44	12 61	
11190 00	7724 62	10598 37	7400 00	103 78	64 79	7 32	-76 28	2643 58	1205 73	1112 00	12 86	
11220 00	7724 96	10597 36	7400 00	104 59	64 77	7 50	-77 28	2643 60	1234.77	1140 61	13 11	
11250 00	7725 29	10596 36	7400 00	105 41	64 76	7 69	-78 29	2643 62	1263 85	1169 26	13 36	
11280 00	7725 63	10595 35	7400 00	106 22	64 74	7 87	-79 29	2643 64	1292 98	1197 95	13 61	
11310 00	7725 96	10594 35	7400 00	107 04	64 72	8 06	-80 30	2643 66	1322 14	1226 68	13 85	
11340 00	7726 30	10593 34	7400 00	107 85	64 70	8 25	-81 30	2643 68	1351 34	1255 45	14 09	
11370 00	7726 63	10592 34	7400 00	108 67	64 68	8 43	-82 31	2643 70	1380 57	1284 24	14 33	
11400 00	7726 97	10591 33	7400 00	109 49	64 67	8 62	-83 31	2643 72	1409 84	1313 07	14 57	
11430 00	7727 30	10590 33	7400 00	110 30	64 65	8 80	-84 32	2643 74	1439 13	1341 93	14 81	
11460 00	7727 64	10589 32	7400 00	111 12	64 63	8 99	-85 32	2643 76	1468 46	1370 81	15 04	
11490 00	7727 98	10588 32	7400 00	111 93	64 61	9 17	-86 33	2643 78	1497 80	1399 72	15 27	
11520 00	7728 31	10587 31	7400 00	112 75	64 60	9 36	-87 33	2643 79	1527 18	1428 65	15 50	
11550 00	7728 65	10586 31	7400 00	113 57	64 58	9 54	-88 34	2643 81	1556 57	1457 60	15 73	
11580 00	7728 98	10585 30	7400 00	114 38	64 56	9 72	-89 34	2643 83	1585 99	1486 57	15 95	
11610 00	7729 32	10584 30	7400 00	115 20	64 54	9 91	-90 35	2643 85	1615 43	1515 55	16 17	
11640 00	7729 65	10583 29	7400 00	116 02	64 52	10 09	-91 35	2643 87	1644 89	1544 56	16 39	
11670 00	7729 99	10582 29	7400 00	116 84	64 51	10 28	-92 36	2643 89	1674 37	1573 58	16 61	
11671 26	7730 00	10582 25	7400 00	116 87	64 51	10 28	-92 40	2643 89	1675 61	1574 80	16 62	

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

GeoDec v5.03

Report Date: March 08, 2012

Job Number: _____

Customer: Devon Energy

Well Name: Spud 16 State #8H

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 477055.470 USFT

Latitude 32.3110478 DEG

East/West 645528.130 USFT

Longitude -103.9960789 DEG

Grid Convergence: .18°

Total Correction: +7.51°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.31105° N 32° 18 min 39.772 sec

Longitude = 103.99608° W 103° 59 min 45.884 sec

Magnetic Declination = 7.69° [True North Offset]

Local Gravity = .9988 g CheckSum = 6579

Local Field Strength = 48561 nT Magnetic Vector X = 23935 nT

Magnetic Dip = 60.17° Magnetic Vector Y = 3231 nT

Magnetic Model = IGRF-2010g11 Magnetic Vector Z = 42129 nT

Spud Date = Apr 10, 2012 Magnetic Vector H = 24153 nT

Signed: _____

Date: _____