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Phone: (575) 748-1283 Fax: (575) 748-9720
District III
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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 30-015-41149	² Pool Code 96-721	³ Pool Name Laguna Salado; Bone Spring
⁴ Property Code 30668	⁵ Property Name SPUD "16" STATE	⁶ Well Number 11H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 2961.2

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		2030	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
L	16	23 S	29 E		1980	SOUTH	330	WEST	EDDY

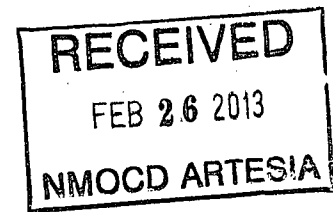
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

S89°48'46"W 2640.91 FT NW CORNER SEC. 16 LAT. = 32.3124616°N LONG. = 103.9983011°W NMSP EAST (FT) N = 477567.65 E = 644840.01 CALCULATED		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 CALCULATED		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Melanie Crawford</i> 2/19/13 Signature Date Melanie Crawford Printed Name melanie.crawford@devn.com E-mail Address
S00°10'38"W 2659.24 FT SW CORNER SEC. 16 COMPUTED LAT. = 32.2978385°N LONG. = 103.9984042°W NMSP EAST (FT) N = 472247.83 E = 644824.77 CALCULATED		S00°10'38"W 2657.91 FT SE CORNER SEC. 16 LAT. = 32.3051581°N LONG. = 103.9811621°W NMSP EAST (FT) N = 474927.68 E = 650143.55 CALCULATED		
SPUD "16" STATE #11H ELEV. = 2961.2' LAT. = 32.3034306°N (NAD83) LONG. = 103.9833088°W NMSP EAST (FT) N = 474297.09 E = 649482.37 BOTTOM OF HOLE LAT. = 32.3032817°N LONG. = 103.9972962°W NMSP EAST (FT) N = 474229.08 E = 645160.90 SURFACE LOCATION LAT. = 32.2978522°N LONG. = 103.9812070°W NMSP EAST (FT) N = 472269.85 E = 650138.42 330' 660' 1980' 2030' N89°47'24"E 2658.04 FT N89°47'24"E 2658.04 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: 001010N F. JARAMILA OPLS 12797 SURV 10, 1199B

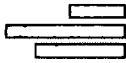


Weatherford®



Drilling Services

Proposal



devon

SPUD 16 STATE #11H

EDDY COUNTY, NM

WELL FILE: **PLAN 2**

FEBRUARY 12, 2013

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Spud 16 State #11H Eddy Co., NM



KB ELEV: 2986
GL ELEV: 2961

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	5430.00	0.00	0.00	5430.00	0.00	0.00	0.00	0.00	0.00	
3	6817.73	41.63	91.72	6698.80	-14.46	482.16	3.00	0.00	-481.87	
4	7100.76	41.63	91.72	6910.35	-20.09	670.11	0.00	0.00	-669.71	
5	8308.09	91.20	269.76	7776.52	-48.81	269.79	11.00	177.33	-268.99	
6	8618.09	91.20	269.76	7770.00	-50.11	-40.14	0.00	0.00	40.92	LP/Tgt
7	12900.40	91.20	269.76	7680.00	-68.01	-4321.47	0.00	0.00	4322.01	PBHL

SITE DETAILS

Spud 16 State #11H
Site Centre Northing: 474297.09
Easting: 649482.37
Ground Level: 2961.00
Positional Uncertainty: 0.00
Convergence: 0.19

WELL DETAILS

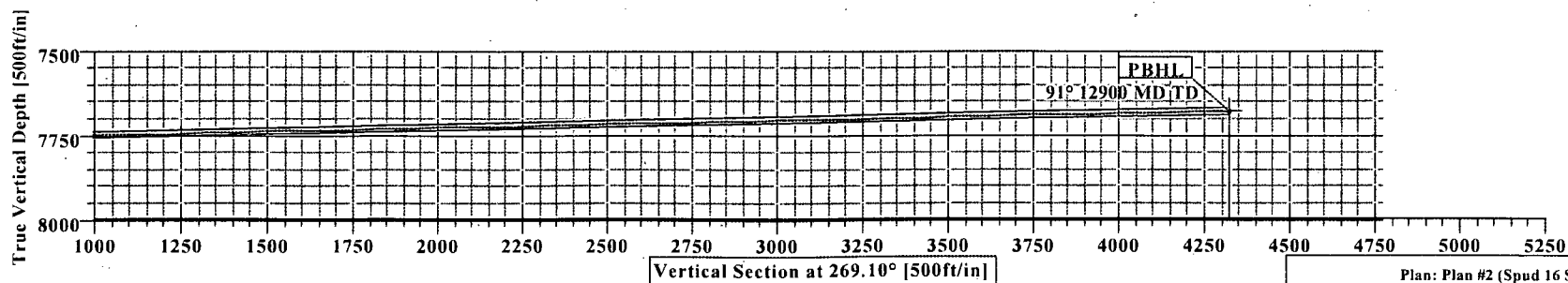
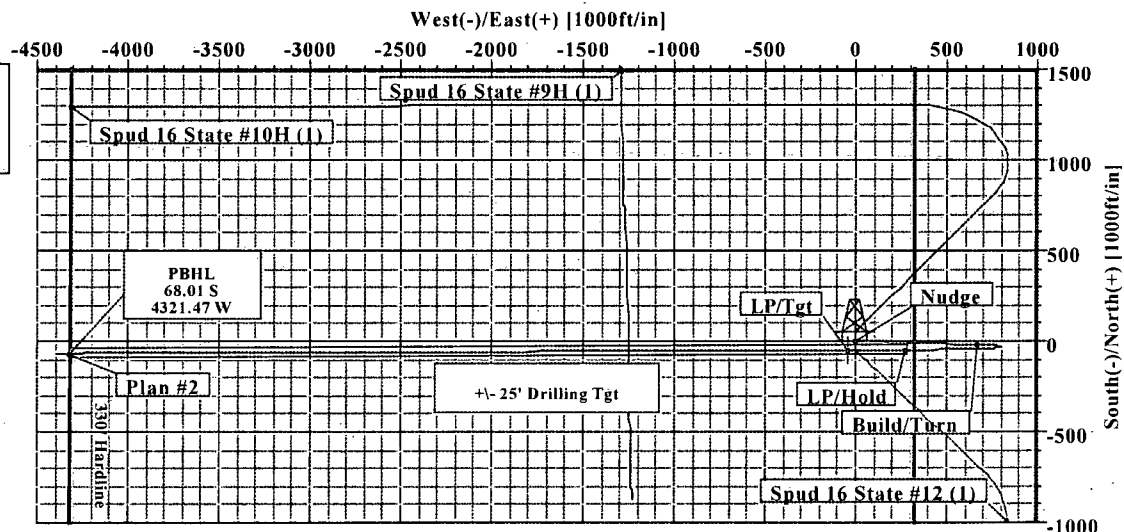
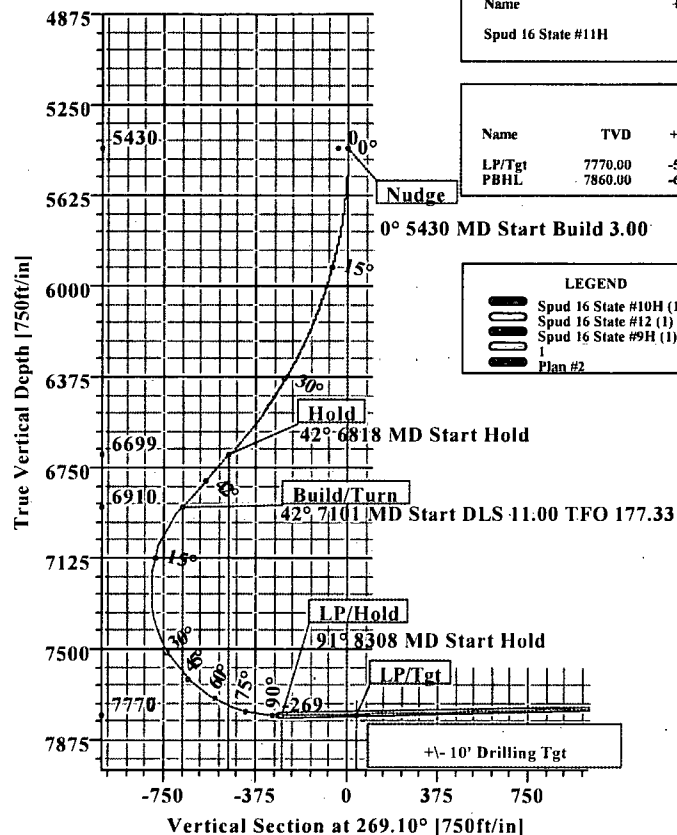
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slut
Spud 16 State #11H	0.00	0.00	474297.09	649482.37	32°18'12.341N	103°58'59.927W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
LP/Tgt	7770.00	-50.11	-40.14	474246.98	649442.23	32°18'11.846N	103°59'00.396W	Point
PBHL	7860.00	-68.01	-4321.47	474229.08	645160.90	32°18'11.805N	103°59'50.282W	Point



Weatherford



Plan: Plan #2 (Spud 16 State #11H/1)

Created By: Russell W. Joyner

Date: 2/12/2013



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy Date: 2/12/2013 Time: 09:20:15 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Spud 16 State #11H, Grid North
Site: Spud 16 State #11H Vertical (TVD) Reference: SITE 2986.0
Well: Spud 16 State #11H Section (VS) Reference: Well (0.00N,0.00E,269.10Azi)
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 #11H

Site Position: Northing: 474297.09 ft Latitude: 32 18 12.341 N
From: Map Easting: 649482.37 ft Longitude: 103 58 59.927 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 2961.00 ft Grid Convergence: 0.19 deg

Well: Spud 16 State #11H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 474297.09 ft Latitude: 32 18 12.341 N
+E/-W 0.00 ft Easting: 649482.37 ft Longitude: 103 58 59.927 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: 4/15/2013 Above System Datum: Mean Sea Level
Field Strength: 48461 nT Declination: 7.56 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.14 deg
ft +E/-W Direction
deg
0.00 0.00 0.00 269.10

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	
5430.00	0.00	0.00	5430.00	0.00	0.00	0.00	0.00	0.00	0.00	
6817.73	41.63	91.72	6698.80	-14.46	482.16	3.00	3.00	0.00	0.00	
7100.76	41.63	91.72	6910.35	-20.09	670.11	0.00	0.00	0.00	0.00	
8308.09	91.20	269.76	7776.52	-48.81	269.79	11.00	4.11	14.75	177.33	
8618.09	91.20	269.76	7770.00	-50.11	-40.14	0.00	0.00	0.00	0.00	LP/Tgt
12900.40	91.20	269.76	7680.00	-68.01	-4321.47	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
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	474297.09	649482.37	
5430.00	0.00	0.00	5430.00	0.00	0.00	0.00	0.00	474297.09	649482.37	Nudge
5500.00	2.10	91.72	5499.98	-0.04	1.28	-1.28	3.00	474297.05	649483.65	
5600.00	5.10	91.72	5599.78	-0.23	7.56	-7.55	3.00	474296.86	649489.93	
5700.00	8.10	91.72	5699.10	-0.57	19.04	-19.03	3.00	474296.52	649501.41	
5800.00	11.10	91.72	5797.69	-1.07	35.71	-35.69	3.00	474296.02	649518.08	
5900.00	14.10	91.72	5895.27	-1.72	57.51	-57.48	3.00	474295.37	649539.88	
6000.00	17.10	91.72	5991.58	-2.53	84.39	-84.34	3.00	474294.56	649566.76	
6100.00	20.10	91.72	6086.34	-3.49	116.27	-116.20	3.00	474293.60	649598.64	
6200.00	23.10	91.72	6179.31	-4.59	153.06	-152.97	3.00	474292.50	649635.43	
6300.00	26.10	91.72	6270.22	-5.84	194.67	-194.55	3.00	474291.25	649677.04	
6400.00	29.10	91.72	6358.83	-7.22	240.97	-240.83	3.00	474289.87	649723.34	
6500.00	32.10	91.72	6444.90	-8.75	291.84	-291.67	3.00	474288.34	649774.21	
6600.00	35.10	91.72	6528.18	-10.41	347.15	-346.95	3.00	474286.68	649829.52	
6700.00	38.10	91.72	6608.45	-12.19	406.74	-406.50	3.00	474284.90	649889.11	
6800.00	41.10	91.72	6685.49	-14.10	470.45	-470.17	3.00	474282.99	649952.82	
6817.73	41.63	91.72	6698.80	-14.46	482.16	-481.87	3.00	474282.63	649964.53	Hold
6900.00	41.63	91.72	6760.29	-16.09	536.79	-536.47	0.00	474281.00	650019.16	
7000.00	41.63	91.72	6835.03	-18.08	603.20	-602.84	0.00	474279.01	650085.57	
7100.76	41.63	91.72	6910.35	-20.09	670.11	-669.71	0.00	474277.00	650152.48	Build/Turn



Weatherford

Wft Plan Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1

Date: 2/12/2013 Time: 09:20:15 Page: 2
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0
Section (VS) Reference: Well (0.00N,0.00E,269.10Azi)
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
7150.00	36.22	92.14	6948.64	-21.13	701.01	-700.60	11.00	474275.96	650183.38	
7200.00	30.73	92.71	6990.33	-22.28	728.56	-728.12	11.00	474274.81	650210.93	
7250.00	25.24	93.48	7034.46	-23.53	751.98	-751.52	11.00	474273.56	650234.35	
7300.00	19.76	94.66	7080.64	-24.87	771.06	-770.58	11.00	474272.22	650253.43	
7350.00	14.29	96.70	7128.43	-26.28	785.63	-785.12	11.00	474270.81	650268.00	
7400.00	8.86	101.16	7177.39	-27.74	795.54	-795.01	11.00	474269.35	650277.91	
7450.00	3.64	118.78	7227.08	-29.26	800.72	-800.16	11.00	474267.83	650283.09	
7500.00	2.91	232.32	7277.04	-30.80	801.11	-800.52	11.00	474266.29	650283.48	
7550.00	8.01	257.03	7326.80	-32.36	796.70	-796.09	11.00	474264.73	650279.07	
7600.00	13.43	262.28	7375.91	-33.92	787.54	-786.91	11.00	474263.17	650269.91	
7650.00	18.90	264.54	7423.92	-35.47	773.72	-773.07	11.00	474261.62	650256.09	
7700.00	24.38	265.81	7470.38	-37.00	755.36	-754.68	11.00	474260.09	650237.73	
7750.00	29.86	266.64	7514.86	-38.49	732.62	-731.93	11.00	474258.60	650214.99	
7800.00	35.35	267.22	7556.97	-39.92	705.73	-705.01	11.00	474257.17	650188.10	
7850.00	40.85	267.67	7596.30	-41.28	674.92	-674.18	11.00	474255.81	650157.29	
7900.00	46.34	268.03	7632.50	-42.57	640.48	-639.73	11.00	474254.52	650122.85	
7950.00	51.84	268.33	7665.23	-43.76	602.72	-601.96	11.00	474253.33	650085.09	
8000.00	57.33	268.59	7694.19	-44.86	562.01	-561.23	11.00	474252.23	650044.38	
8050.00	62.83	268.81	7719.12	-45.84	518.70	-517.91	11.00	474251.25	650001.07	
8100.00	68.33	269.02	7739.79	-46.70	473.20	-472.40	11.00	474250.39	649955.57	
8150.00	73.82	269.21	7756.00	-47.43	425.92	-425.13	11.00	474249.66	649908.29	
8200.00	79.32	269.39	7767.60	-48.02	377.31	-376.51	11.00	474249.07	649859.68	
8250.00	84.82	269.56	7774.50	-48.47	327.81	-327.01	11.00	474248.62	649810.18	
8300.00	90.31	269.73	7776.62	-48.78	277.88	-277.08	11.00	474248.31	649760.25	
8308.09	91.20	269.76	7776.52	-48.81	269.79	-268.99	11.00	474248.28	649752.16	LP/Hold
8400.00	91.20	269.76	7774.58	-49.20	177.90	-177.10	0.00	474247.89	649660.27	
8500.00	91.20	269.76	7772.48	-49.62	77.92	-77.13	0.00	474247.47	649560.29	
8600.00	91.20	269.76	7770.38	-50.03	-22.06	22.84	0.00	474247.06	649460.31	
8618.09	91.20	269.76	7770.00	-50.11	-40.14	40.92	0.00	474246.98	649442.23	LP/Tgt
8700.00	91.20	269.76	7768.28	-50.45	-122.03	122.81	0.00	474246.64	649360.34	
8800.00	91.20	269.76	7766.18	-50.87	-222.01	222.78	0.00	474246.22	649260.36	
8900.00	91.20	269.76	7764.08	-51.29	-321.99	322.75	0.00	474245.80	649160.38	
9000.00	91.20	269.76	7761.97	-51.71	-421.96	422.72	0.00	474245.38	649060.41	
9100.00	91.20	269.76	7759.87	-52.12	-521.94	522.69	0.00	474244.97	648960.43	
9200.00	91.20	269.76	7757.77	-52.54	-621.92	622.67	0.00	474244.55	648860.45	
9300.00	91.20	269.76	7755.67	-52.96	-721.89	722.64	0.00	474244.13	648760.48	
9400.00	91.20	269.76	7753.57	-53.38	-821.87	822.61	0.00	474243.71	648660.50	
9500.00	91.20	269.76	7751.47	-53.80	-921.85	922.58	0.00	474243.29	648560.52	
9600.00	91.20	269.76	7749.36	-54.21	-1021.83	1022.55	0.00	474242.88	648460.54	
9700.00	91.20	269.76	7747.26	-54.63	-1121.80	1122.52	0.00	474242.46	648360.57	
9800.00	91.20	269.76	7745.16	-55.05	-1221.78	1222.49	0.00	474242.04	648260.59	
9900.00	91.20	269.76	7743.06	-55.47	-1321.76	1322.46	0.00	474241.62	648160.61	
10000.00	91.20	269.76	7740.96	-55.89	-1421.73	1422.44	0.00	474241.20	648060.64	
10100.00	91.20	269.76	7738.86	-56.30	-1521.71	1522.41	0.00	474240.79	647960.66	
10200.00	91.20	269.76	7736.75	-56.72	-1621.69	1622.38	0.00	474240.37	647860.68	
10300.00	91.20	269.76	7734.65	-57.14	-1721.66	1722.35	0.00	474239.95	647760.71	
10400.00	91.20	269.76	7732.55	-57.56	-1821.64	1822.32	0.00	474239.53	647660.73	
10500.00	91.20	269.76	7730.45	-57.98	-1921.62	1922.29	0.00	474239.11	647560.75	
10600.00	91.20	269.76	7728.35	-58.39	-2021.60	2022.26	0.00	474238.70	647460.77	
10700.00	91.20	269.76	7726.25	-58.81	-2121.57	2122.23	0.00	474238.28	647360.80	
10800.00	91.20	269.76	7724.14	-59.23	-2221.55	2222.21	0.00	474237.86	647260.82	
10900.00	91.20	269.76	7722.04	-59.65	-2321.53	2322.18	0.00	474237.44	647160.84	
11000.00	91.20	269.76	7719.94	-60.07	-2421.50	2422.15	0.00	474237.02	647060.87	



Weatherford

Wft Plan Report X Y's.



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Spud 16 State #11H
Well: Spud 16 State #11H
Wellpath: 1

Date: 2/12/2013 Time: 09:20:15 Page: 3
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0
Section (VS) Reference: Well (0.00N,0.00E,269.10Azi)
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
11100.00	91.20	269.76	7717.84	-60.48	-2521.48	2522.12	0.00	474236.61	646960.89	
11200.00	91.20	269.76	7715.74	-60.90	-2621.46	2622.09	0.00	474236.19	646860.91	
11300.00	91.20	269.76	7713.64	-61.32	-2721.44	2722.06	0.00	474235.77	646760.93	
11400.00	91.20	269.76	7711.53	-61.74	-2821.41	2822.03	0.00	474235.35	646660.96	
11500.00	91.20	269.76	7709.43	-62.16	-2921.39	2922.01	0.00	474234.93	646560.98	
11600.00	91.20	269.76	7707.33	-62.57	-3021.37	3021.98	0.00	474234.52	646461.00	
11700.00	91.20	269.76	7705.23	-62.99	-3121.34	3121.95	0.00	474234.10	646361.03	
11800.00	91.20	269.76	7703.13	-63.41	-3221.32	3221.92	0.00	474233.68	646261.05	
11900.00	91.20	269.76	7701.03	-63.83	-3321.30	3321.89	0.00	474233.26	646161.07	
12000.00	91.20	269.76	7698.92	-64.25	-3421.27	3421.86	0.00	474232.84	646061.10	
12100.00	91.20	269.76	7696.82	-64.66	-3521.25	3521.83	0.00	474232.43	645961.12	
12200.00	91.20	269.76	7694.72	-65.08	-3621.23	3621.80	0.00	474232.01	645861.14	
12300.00	91.20	269.76	7692.62	-65.50	-3721.21	3721.78	0.00	474231.59	645761.16	
12400.00	91.20	269.76	7690.52	-65.92	-3821.18	3821.75	0.00	474231.17	645661.19	
12500.00	91.20	269.76	7688.42	-66.34	-3921.16	3921.72	0.00	474230.75	645561.21	
12600.00	91.20	269.76	7686.31	-66.75	-4021.14	4021.69	0.00	474230.34	645461.23	
12700.00	91.20	269.76	7684.21	-67.17	-4121.11	4121.66	0.00	474229.92	645361.26	
12800.00	91.20	269.76	7682.11	-67.59	-4221.09	4221.63	0.00	474229.50	645261.28	
12900.40	91.20	269.76	7680.00	-68.01	-4321.47	4322.01	0.00	474229.08	645160.90	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 -Rectangle (4602x50)		7680.00	-68.01	-4321.47	474229.08	645160.90	32 18 11.805 N	103 59 50.282 W
LP/Tgt		7770.00	-50.11	-40.14	474246.98	649442.23	32 18 11.846 N	103 59 0.396 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
5430.00	5430.00	Nudge
6817.73	6698.80	Hold
7100.76	6910.34	Build/Turn
8308.09	7776.52	LP/Hold
8618.09	7770.00	LP/Tgt/Hold
12900.40	7680.00	PBHL



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 1
Co-ordinate(N/E) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method MD + Stations Interval: 100.00 ft
Depth Range: 0.00 to 12900.40 ft
Maximum Radius 40000.00 ft

Reference: Plan: Plan #2
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #2

Date Composed: 2/12/2013

Principal: Yes

Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
Spud 16 State #10	Spud 16 State #10H	1 V0 Plan: Plan #2 V1	5300.00	5302.00	49.99	26.44	2.12	
Spud 16 State #12	Spud 16 State #12	1 V0 Plan: Plan #2 V1	5500.00	5499.98	49.99	25.56	2.05	
Spud 16 State #9H	Spud 16 State #9H	1 V1	9900.00	7971.41	309.42	279.70	10.41	

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
0.00	0.00	2.00	2.00	0.00	0.00	0.21	49.99	0.18	49.99	49.99	29654.73	
100.00	100.00	102.00	102.00	0.08	0.09	0.21	49.99	0.18	49.99	49.82	288.84	
200.00	200.00	202.00	202.00	0.31	0.31	0.21	49.99	0.18	49.99	49.37	80.29	
300.00	300.00	302.00	302.00	0.53	0.54	0.21	49.99	0.18	49.99	48.92	46.63	
400.00	400.00	402.00	402.00	0.76	0.76	0.21	49.99	0.18	49.99	48.47	32.85	
500.00	500.00	502.00	502.00	0.98	0.99	0.21	49.99	0.18	49.99	48.02	25.36	
600.00	600.00	602.00	602.00	1.21	1.21	0.21	49.99	0.18	49.99	47.57	20.65	
700.00	700.00	702.00	702.00	1.43	1.44	0.21	49.99	0.18	49.99	47.12	17.42	
800.00	800.00	802.00	802.00	1.66	1.66	0.21	49.99	0.18	49.99	46.67	15.06	
900.00	900.00	902.00	902.00	1.88	1.89	0.21	49.99	0.18	49.99	46.22	13.26	
1000.00	1000.00	1002.00	1002.00	2.11	2.11	0.21	49.99	0.18	49.99	45.77	11.85	
1100.00	1100.00	1102.00	1102.00	2.33	2.34	0.21	49.99	0.18	49.99	45.32	10.71	
1200.00	1200.00	1202.00	1202.00	2.56	2.56	0.21	49.99	0.18	49.99	44.87	9.77	
1300.00	1300.00	1302.00	1302.00	2.78	2.79	0.21	49.99	0.18	49.99	44.42	8.98	
1400.00	1400.00	1402.00	1402.00	3.01	3.01	0.21	49.99	0.18	49.99	43.97	8.31	
1500.00	1500.00	1502.00	1502.00	3.23	3.24	0.21	49.99	0.18	49.99	43.52	7.73	
1600.00	1600.00	1602.00	1602.00	3.46	3.46	0.21	49.99	0.18	49.99	43.07	7.23	
1700.00	1700.00	1702.00	1702.00	3.68	3.69	0.21	49.99	0.18	49.99	42.62	6.79	
1800.00	1800.00	1802.00	1802.00	3.91	3.91	0.21	49.99	0.18	49.99	42.18	6.40	
1900.00	1900.00	1902.00	1902.00	4.13	4.13	0.21	49.99	0.18	49.99	41.73	6.05	
2000.00	2000.00	2002.00	2002.00	4.35	4.36	0.21	49.99	0.18	49.99	41.28	5.74	
2100.00	2100.00	2102.00	2102.00	4.58	4.58	0.21	49.99	0.18	49.99	40.83	5.46	
2200.00	2200.00	2202.00	2202.00	4.80	4.81	0.21	49.99	0.18	49.99	40.38	5.20	
2300.00	2300.00	2302.00	2302.00	5.03	5.03	0.21	49.99	0.18	49.99	39.93	4.97	
2400.00	2400.00	2402.00	2402.00	5.25	5.26	0.21	49.99	0.18	49.99	39.48	4.76	
2500.00	2500.00	2502.00	2502.00	5.48	5.48	0.21	49.99	0.18	49.99	39.03	4.56	
2600.00	2600.00	2602.00	2602.00	5.70	5.71	0.21	49.99	0.18	49.99	38.58	4.38	
2700.00	2700.00	2702.00	2702.00	5.93	5.93	0.21	49.99	0.18	49.99	38.13	4.21	
2800.00	2800.00	2802.00	2802.00	6.15	6.16	0.21	49.99	0.18	49.99	37.68	4.06	
2900.00	2900.00	2902.00	2902.00	6.38	6.38	0.21	49.99	0.18	49.99	37.23	3.92	
3000.00	3000.00	3002.00	3002.00	6.60	6.61	0.21	49.99	0.18	49.99	36.78	3.78	
3100.00	3100.00	3102.00	3102.00	6.83	6.83	0.21	49.99	0.18	49.99	36.33	3.66	
3200.00	3200.00	3202.00	3202.00	7.05	7.06	0.21	49.99	0.18	49.99	35.88	3.54	
3300.00	3300.00	3302.00	3302.00	7.28	7.28	0.21	49.99	0.18	49.99	35.43	3.43	
3400.00	3400.00	3402.00	3402.00	7.50	7.51	0.21	49.99	0.18	49.99	34.98	3.33	
3500.00	3500.00	3502.00	3502.00	7.73	7.73	0.21	49.99	0.18	49.99	34.53	3.23	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013

Time: 09:19:11

Page: 2

Co-ordinate(N/E) Reference: Well: Spud 16 State #11H, 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 ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
3600.00	3600.00	3602.00	3602.00	7.95	7.96	0.21	49.99	0.18	49.99	34.08	3.14	
3700.00	3700.00	3702.00	3702.00	8.18	8.18	0.21	49.99	0.18	49.99	33.63	3.06	
3800.00	3800.00	3802.00	3802.00	8.40	8.41	0.21	49.99	0.18	49.99	33.18	2.97	
3900.00	3900.00	3902.00	3902.00	8.63	8.63	0.21	49.99	0.18	49.99	32.74	2.90	
4000.00	4000.00	4002.00	4002.00	8.85	8.85	0.21	49.99	0.18	49.99	32.29	2.82	
4100.00	4100.00	4102.00	4102.00	9.07	9.08	0.21	49.99	0.18	49.99	31.84	2.75	
4200.00	4200.00	4202.00	4202.00	9.30	9.30	0.21	49.99	0.18	49.99	31.39	2.69	
4300.00	4300.00	4302.00	4302.00	9.52	9.53	0.21	49.99	0.18	49.99	30.94	2.62	
4400.00	4400.00	4402.00	4402.00	9.75	9.75	0.21	49.99	0.18	49.99	30.49	2.56	
4500.00	4500.00	4502.00	4502.00	9.97	9.98	0.21	49.99	0.18	49.99	30.04	2.51	
4600.00	4600.00	4602.00	4602.00	10.20	10.20	0.21	49.99	0.18	49.99	29.59	2.45	
4700.00	4700.00	4702.00	4702.00	10.42	10.43	0.21	49.99	0.18	49.99	29.14	2.40	
4800.00	4800.00	4802.00	4802.00	10.65	10.65	0.21	49.99	0.18	49.99	28.69	2.35	
4900.00	4900.00	4902.00	4902.00	10.87	10.88	0.21	49.99	0.18	49.99	28.24	2.30	
5000.00	5000.00	5002.00	5002.00	11.10	11.10	0.21	49.99	0.18	49.99	27.79	2.25	
5100.00	5100.00	5102.00	5102.00	11.32	11.33	0.21	49.99	0.18	49.99	27.34	2.21	
5200.00	5200.00	5202.00	5202.00	11.55	11.55	0.21	49.99	0.18	49.99	26.89	2.16	
5300.00	5300.00	5302.00	5302.00	11.77	11.78	0.21	49.99	0.18	49.99	26.44	2.12	
5400.00	5400.00	5400.65	5400.63	12.00	12.00	1.24	50.92	1.10	50.95	26.96	2.12	
5430.00	5430.00	5430.04	5430.00	12.06	12.06	2.24	51.85	2.03	51.93	27.81	2.15	
5500.00	5499.98	5498.48	5498.26	12.21	12.21	272.70	55.26	5.41	55.57	31.18	2.28	
5600.00	5599.78	5595.79	5594.93	12.41	12.42	273.91	63.09	13.20	63.93	39.16	2.58	
5700.00	5699.10	5692.36	5690.19	12.61	12.64	273.48	74.30	24.34	75.85	50.70	3.02	
5800.00	5797.69	5787.97	5783.60	12.83	12.86	272.16	88.75	38.70	91.30	65.77	3.58	
5900.00	5895.27	5882.44	5874.77	13.06	13.10	270.52	106.27	56.11	110.32	84.39	4.25	
6000.00	5991.58	5975.58	5963.36	13.31	13.36	268.90	126.65	76.37	132.91	106.54	5.04	
6100.00	6086.34	6067.24	6049.07	13.60	13.64	267.45	149.67	99.25	159.02	132.16	5.92	
6200.00	6179.31	6157.30	6131.67	13.93	13.96	266.25	175.11	124.53	188.60	161.16	6.87	
6300.00	6270.22	6245.64	6210.97	14.32	14.31	265.31	202.71	151.97	221.51	193.41	7.88	
6400.00	6358.83	6332.20	6286.84	14.78	14.70	264.62	232.26	181.33	257.65	228.77	8.92	
6500.00	6444.90	6416.93	6359.19	15.33	15.14	264.16	263.51	212.39	296.87	267.07	9.96	
6600.00	6528.18	6499.78	6428.00	15.98	15.62	263.91	296.24	244.91	339.01	308.15	10.99	
6700.00	6608.45	6580.74	6493.24	16.75	16.16	263.85	330.24	278.71	383.92	351.81	11.96	
6800.00	6685.49	6659.84	6554.96	17.64	16.75	263.96	365.32	313.57	431.44	397.90	12.86	
6817.73	6698.80	6673.67	6565.54	17.82	16.86	264.00	371.64	319.86	440.13	406.32	13.02	
6900.00	6760.29	6737.35	6613.40	18.65	17.39	263.02	401.43	349.46	481.24	446.13	13.71	
7000.00	6835.03	6813.65	6668.86	19.73	18.07	262.34	438.59	386.39	532.76	495.99	14.49	
7100.00	6909.78	6888.54	6721.23	20.87	18.80	262.09	476.56	424.12	585.84	547.32	15.21	
7100.76	6910.35	6889.10	6721.61	20.88	18.81	262.09	476.85	424.41	586.25	547.72	15.21	
7150.00	6948.64	6927.03	6747.34	21.39	19.20	258.57	496.61	444.05	612.71	573.45	15.61	
7200.00	6990.33	6968.89	6775.61	21.82	19.65	255.47	518.51	465.82	639.11	599.19	16.01	
7250.00	7034.46	7010.22	6803.51	22.19	20.10	252.67	540.14	487.31	664.86	624.38	16.42	
7300.00	7080.64	7050.62	6830.79	22.48	20.55	249.89	561.27	508.32	689.95	648.97	16.84	
7350.00	7128.43	7089.72	6857.19	22.72	21.00	246.58	581.73	528.65	714.40	673.05	17.28	
7400.00	7177.39	7127.17	6882.48	22.89	21.43	241.09	601.33	548.13	738.31	696.68	17.73	
7450.00	7227.08	7162.62	6906.42	23.01	21.85	222.60	619.87	566.56	761.78	719.98	18.22	
7500.00	7277.04	7195.75	6928.78	23.07	22.24	108.26	637.20	583.78	784.94	743.09	18.75	
7550.00	7326.80	7226.24	6949.37	23.10	22.60	82.74	653.16	599.64	807.92	766.13	19.33	
7600.00	7375.91	7253.82	6967.99	23.10	22.94	76.62	667.59	613.98	830.83	789.21	19.96	
7650.00	7423.92	7278.23	6984.47	23.08	23.24	73.37	680.36	626.67	853.76	812.44	20.66	
7700.00	7470.38	7299.25	6998.67	23.05	23.49	70.94	691.36	637.60	876.80	835.87	21.43	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 3
Co-ordinate(N/E) Reference: Well: Spud 16 State #11H, 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	TVD ft	Offset MD	TVD ft	Semi-Major Axis Ref	Offset ft	TFO-HS deg	Offset Location North	East	Ctr-Ctr Edge Distance ft	Separation Distance ft	Factor	Warning
7750.00	7514.86	7316.69	7010.44	23.01	23.71	68.74	700.48	646.67	899.96	859.53	22.26	
7800.00	7556.97	7330.39	7019.69	22.99	23.88	66.56	707.65	653.79	923.24	883.40	23.17	
7850.00	7596.30	7340.21	7026.32	23.00	24.00	64.29	712.78	658.90	946.59	907.41	24.16	
7900.00	7632.50	7346.07	7030.28	23.04	24.08	61.90	715.85	661.95	969.92	931.46	25.22	
7950.00	7665.23	7347.91	7031.52	23.13	24.10	59.38	716.82	662.91	993.09	955.39	26.34	
8000.00	7694.19	7345.72	7030.04	23.28	24.07	56.75	715.67	661.77	1015.93	979.01	27.52	
8050.00	7719.12	7339.52	7025.86	23.50	23.99	54.06	712.43	658.54	1038.23	1002.10	28.74	
8100.00	7739.79	7329.37	7019.00	23.79	23.87	51.34	707.11	653.26	1059.75	1024.38	29.96	
8150.00	7756.00	7315.35	7009.54	24.16	23.69	48.66	699.78	645.97	1080.25	1045.59	31.17	
8200.00	7767.60	7297.60	6997.55	24.60	23.47	46.05	690.49	636.74	1099.44	1065.42	32.31	
8250.00	7774.50	7276.28	6983.16	25.10	23.21	43.57	679.34	625.66	1117.06	1083.57	33.36	
8300.00	7776.62	7251.59	6966.48	25.66	22.91	41.24	666.42	612.82	1132.81	1099.75	34.26	
8308.09	7776.52	7247.29	6963.58	25.76	22.86	40.88	664.17	610.59	1135.17	1102.16	34.39	
8400.00	7774.58	7198.01	6930.31	26.94	22.26	38.75	638.39	584.96	1163.90	1131.16	35.55	
8500.00	7772.48	7144.38	6894.10	28.43	21.63	36.46	610.33	557.07	1200.08	1167.44	36.77	
8600.00	7770.38	7090.76	6857.89	30.10	21.01	34.23	582.27	529.19	1240.96	1208.28	37.98	
8618.09	7770.00	7081.06	6851.34	30.42	20.90	33.83	577.20	524.15	1248.82	1216.12	38.20	
8700.00	7768.28	7037.13	6821.69	31.92	20.40	32.05	554.22	501.31	1286.08	1253.27	39.20	
8800.00	7766.18	6983.51	6785.48	33.86	19.81	29.93	526.16	473.42	1335.02	1302.03	40.46	
8900.00	7764.08	6927.49	6764.06	35.91	36.04	89.91	1304.56	-326.81	1355.86	1284.09	18.89	
9000.00	7761.97	6937.49	6761.95	38.05	38.13	89.91	1304.20	-426.79	1355.92	1279.91	17.84	
9100.00	7759.87	6947.49	6759.85	40.27	40.29	89.91	1303.84	-526.76	1355.97	1275.58	16.87	
9200.00	7757.77	6957.49	6757.74	42.54	42.53	89.91	1303.48	-626.74	1356.03	1271.11	15.97	
9300.00	7755.67	6967.49	6755.63	44.87	44.82	89.91	1303.12	-726.72	1356.09	1266.54	15.14	
9400.00	7753.57	6977.49	6753.53	47.25	47.16	89.91	1302.76	-826.69	1356.15	1261.87	14.38	
9500.00	7751.47	6987.49	6751.42	49.66	49.54	89.91	1302.41	-926.67	1356.21	1257.12	13.69	
9600.00	7749.36	6997.49	6749.32	52.11	51.96	89.91	1302.05	-1026.65	1356.27	1252.31	13.05	
9700.00	7747.26	10079.49	6747.21	54.59	54.42	89.91	1301.69	-1126.63	1356.33	1247.43	12.45	
9800.00	7745.16	10179.49	6745.10	57.09	56.90	89.91	1301.33	-1226.60	1356.39	1242.50	11.91	
9900.00	7743.06	10279.49	6743.00	59.61	59.40	89.91	1300.97	-1326.58	1356.45	1237.52	11.41	
10000.00	7740.96	10379.49	6740.89	62.16	61.93	89.91	1300.61	-1426.56	1356.51	1232.51	10.94	
10100.00	7738.86	10479.49	6738.79	64.72	64.47	89.91	1300.25	-1526.53	1356.57	1227.46	10.51	
10200.00	7736.75	10579.49	6736.68	67.29	67.03	89.91	1299.89	-1626.51	1356.63	1222.38	10.11	
10300.00	7734.65	10679.49	6734.57	69.88	69.61	89.91	1299.54	-1726.49	1356.69	1217.27	9.73	
10400.00	7732.55	10779.49	6732.47	72.48	72.19	89.91	1299.18	-1826.47	1356.75	1212.13	9.38	
10500.00	7730.45	10879.49	6730.36	75.09	74.79	89.91	1298.82	-1926.44	1356.80	1206.98	9.06	
10600.00	7728.35	10979.49	6728.26	77.71	77.40	89.91	1298.46	-2026.42	1356.86	1201.80	8.75	
10700.00	7726.25	11079.49	6726.15	80.34	80.02	89.91	1298.10	-2126.40	1356.92	1196.61	8.46	
10800.00	7724.14	11179.49	6724.04	82.98	82.65	89.91	1297.74	-2226.37	1356.98	1191.40	8.20	
10900.00	7722.04	11279.49	6721.94	85.63	85.29	89.91	1297.38	-2326.35	1357.04	1186.17	7.94	
11000.00	7719.94	11379.49	6719.83	88.28	87.93	89.91	1297.02	-2426.33	1357.10	1180.93	7.70	
11100.00	7717.84	11479.49	6717.73	90.94	90.58	89.91	1296.67	-2526.31	1357.16	1175.68	7.48	
11200.00	7715.74	11579.49	6715.62	93.60	93.24	89.91	1296.31	-2626.28	1357.22	1170.42	7.27	
11300.00	7713.64	11679.49	6713.51	96.27	95.90	89.91	1295.95	-2726.26	1357.28	1165.15	7.06	
11400.00	7711.53	11779.49	6711.41	98.94	98.57	89.91	1295.59	-2826.24	1357.34	1159.87	6.87	
11500.00	7709.43	11879.49	6709.30	101.62	101.24	89.91	1295.23	-2926.21	1357.40	1154.58	6.69	
11600.00	7707.33	11979.49	6707.20	104.30	103.92	89.91	1294.87	-3026.19	1357.46	1149.28	6.52	
11700.00	7705.23	12079.49	6705.09	106.98	106.60	89.91	1294.51	-3126.17	1357.52	1143.97	6.36	
11800.00	7703.13	12179.49	6702.98	109.67	109.28	89.91	1294.15	-3226.15	1357.58	1138.66	6.20	
11900.00	7701.03	12279.49	6700.88	112.36	111.97	89.91	1293.80	-3326.12	1357.63	1133.34	6.05	
12000.00	7698.92	12379.49	6698.77	115.06	114.66	89.91	1293.44	-3426.10	1357.69	1128.01	5.91	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 4
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, 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	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		
12100.00	7696.82	12479.49	7696.67	117.75	117.35	89.91	1293.08	-3526.08	1357.75	1122.68	5.78	
12200.00	7694.72	12579.49	7694.56	120.45	120.04	89.91	1292.72	-3626.05	1357.81	1117.35	5.65	
12300.00	7692.62	12679.49	7692.45	123.15	122.74	89.91	1292.36	-3726.03	1357.87	1112.01	5.52	
12400.00	7690.52	12779.49	7690.35	125.86	125.44	89.91	1292.00	-3826.01	1357.93	1106.66	5.40	
12500.00	7688.42	12879.49	7688.24	128.56	128.14	89.91	1291.64	-3925.99	1357.99	1101.31	5.29	
12600.00	7686.31	12979.49	7686.14	131.27	130.85	89.91	1291.29	-4025.96	1358.05	1095.96	5.18	
12700.00	7684.21	13079.49	7684.03	133.98	133.55	89.91	1290.93	-4125.94	1358.11	1090.60	5.08	
12800.00	7682.11	13179.49	7681.92	136.69	136.26	89.91	1290.57	-4225.92	1358.17	1085.24	4.98	
12900.00	7680.01	13279.49	7679.82	139.41	138.97	89.91	1290.21	-4325.89	1358.23	1079.87	4.88	
12900.40	7680.00	13279.89	7679.81	139.42	138.98	89.91	1290.21	-4326.30	1358.23	1079.85	4.88	

Site: Spud 16 State #12
Well: Spud 16 State #12
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		
0.00	0.00	0.00	0.00	0.00	0.00	180.05	-50.01	-0.04	50.01			No Data
100.00	100.00	100.00	100.00	0.08	0.08	180.05	-50.01	-0.04	50.01	49.84	296.66	
200.00	200.00	200.00	200.00	0.31	0.31	180.05	-50.01	-0.04	50.01	49.39	80.91	
300.00	300.00	300.00	300.00	0.53	0.53	180.05	-50.01	-0.04	50.01	48.94	46.84	
400.00	400.00	400.00	400.00	0.76	0.76	180.05	-50.01	-0.04	50.01	48.49	32.96	
500.00	500.00	500.00	500.00	0.98	0.98	180.05	-50.01	-0.04	50.01	48.04	25.43	
600.00	600.00	600.00	600.00	1.21	1.21	180.05	-50.01	-0.04	50.01	47.59	20.70	
700.00	700.00	700.00	700.00	1.43	1.43	180.05	-50.01	-0.04	50.01	47.14	17.45	
800.00	800.00	800.00	800.00	1.66	1.66	180.05	-50.01	-0.04	50.01	46.69	15.08	
900.00	900.00	900.00	900.00	1.88	1.88	180.05	-50.01	-0.04	50.01	46.25	13.28	
1000.00	1000.00	1000.00	1000.00	2.11	2.11	180.05	-50.01	-0.04	50.01	45.80	11.87	
1100.00	1100.00	1100.00	1100.00	2.33	2.33	180.05	-50.01	-0.04	50.01	45.35	10.72	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	180.05	-50.01	-0.04	50.01	44.90	9.78	
1300.00	1300.00	1300.00	1300.00	2.78	2.78	180.05	-50.01	-0.04	50.01	44.45	8.99	
1400.00	1400.00	1400.00	1400.00	3.01	3.01	180.05	-50.01	-0.04	50.01	44.00	8.32	
1500.00	1500.00	1500.00	1500.00	3.23	3.23	180.05	-50.01	-0.04	50.01	43.55	7.74	
1600.00	1600.00	1600.00	1600.00	3.46	3.46	180.05	-50.01	-0.04	50.01	43.10	7.24	
1700.00	1700.00	1700.00	1700.00	3.68	3.68	180.05	-50.01	-0.04	50.01	42.65	6.79	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	180.05	-50.01	-0.04	50.01	42.20	6.40	
1900.00	1900.00	1900.00	1900.00	4.13	4.13	180.05	-50.01	-0.04	50.01	41.75	6.05	
2000.00	2000.00	2000.00	2000.00	4.35	4.35	180.05	-50.01	-0.04	50.01	41.30	5.74	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	180.05	-50.01	-0.04	50.01	40.85	5.46	
2200.00	2200.00	2200.00	2200.00	4.80	4.80	180.05	-50.01	-0.04	50.01	40.40	5.20	
2300.00	2300.00	2300.00	2300.00	5.03	5.03	180.05	-50.01	-0.04	50.01	39.95	4.97	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	180.05	-50.01	-0.04	50.01	39.50	4.76	
2500.00	2500.00	2500.00	2500.00	5.48	5.48	180.05	-50.01	-0.04	50.01	39.05	4.56	
2600.00	2600.00	2600.00	2600.00	5.70	5.70	180.05	-50.01	-0.04	50.01	38.60	4.38	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	180.05	-50.01	-0.04	50.01	38.15	4.22	
2800.00	2800.00	2800.00	2800.00	6.15	6.15	180.05	-50.01	-0.04	50.01	37.70	4.06	
2900.00	2900.00	2900.00	2900.00	6.38	6.38	180.05	-50.01	-0.04	50.01	37.25	3.92	
3000.00	3000.00	3000.00	3000.00	6.60	6.60	180.05	-50.01	-0.04	50.01	36.81	3.79	
3100.00	3100.00	3100.00	3100.00	6.83	6.83	180.05	-50.01	-0.04	50.01	36.36	3.66	
3200.00	3200.00	3200.00	3200.00	7.05	7.05	180.05	-50.01	-0.04	50.01	35.91	3.55	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	180.05	-50.01	-0.04	50.01	35.46	3.44	
3400.00	3400.00	3400.00	3400.00	7.50	7.50	180.05	-50.01	-0.04	50.01	35.01	3.33	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 5
Co-ordinate(N/E) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #12
Well: Spud 16 State #12
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	Semi-Major Axis TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3500.00	3500.00	3500.00	3500.00	7.73	7.73	180.05	-50.01	-0.04	50.01	34.56	3.24	
3600.00	3600.00	3600.00	3600.00	7.95	7.95	180.05	-50.01	-0.04	50.01	34.11	3.14	
3700.00	3700.00	3700.00	3700.00	8.18	8.18	180.05	-50.01	-0.04	50.01	33.66	3.06	
3800.00	3800.00	3800.00	3800.00	8.40	8.40	180.05	-50.01	-0.04	50.01	33.21	2.98	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	180.05	-50.01	-0.04	50.01	32.76	2.90	
4000.00	4000.00	4000.00	4000.00	8.85	8.85	180.05	-50.01	-0.04	50.01	32.31	2.83	
4100.00	4100.00	4100.00	4100.00	9.07	9.07	180.05	-50.01	-0.04	50.01	31.86	2.76	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	180.05	-50.01	-0.04	50.01	31.41	2.69	
4300.00	4300.00	4300.00	4300.00	9.52	9.52	180.05	-50.01	-0.04	50.01	30.96	2.63	
4400.00	4400.00	4400.00	4400.00	9.75	9.75	180.05	-50.01	-0.04	50.01	30.51	2.56	
4500.00	4500.00	4500.00	4500.00	9.97	9.97	180.05	-50.01	-0.04	50.01	30.06	2.51	
4600.00	4600.00	4600.00	4600.00	10.20	10.20	180.05	-50.01	-0.04	50.01	29.61	2.45	
4700.00	4700.00	4700.00	4700.00	10.42	10.42	180.05	-50.01	-0.04	50.01	29.16	2.40	
4800.00	4800.00	4800.00	4800.00	10.65	10.65	180.05	-50.01	-0.04	50.01	28.71	2.35	
4900.00	4900.00	4900.00	4900.00	10.87	10.87	180.05	-50.01	-0.04	50.01	28.26	2.30	
5000.00	5000.00	5000.00	5000.00	11.10	11.10	180.05	-50.01	-0.04	50.01	27.81	2.25	
5100.00	5100.00	5100.00	5100.00	11.32	11.32	180.05	-50.01	-0.04	50.01	27.36	2.21	
5200.00	5200.00	5200.00	5200.00	11.55	11.55	180.05	-50.01	-0.04	50.01	26.92	2.17	
5300.00	5300.00	5300.00	5300.00	11.77	11.77	180.05	-50.01	-0.04	50.01	26.47	2.12	
5400.00	5400.00	5400.00	5400.00	12.00	12.00	180.05	-50.01	-0.04	50.01	26.02	2.08	
5430.00	5430.00	5430.00	5430.00	12.06	12.06	180.05	-50.01	-0.04	50.01	25.88	2.07	
5500.00	5499.98	5499.98	5499.98	12.21	12.22	89.80	-50.01	-0.04	49.99	25.56	2.05	
5600.00	5599.78	5598.71	5598.69	12.41	12.43	95.69	-50.86	0.85	51.09	26.26	2.06	
5700.00	5699.10	5696.89	5696.68	12.61	12.60	102.05	-55.04	5.23	56.25	31.05	2.23	
5800.00	5797.69	5794.87	5794.02	12.83	12.78	107.43	-62.68	13.22	65.69	40.11	2.57	
5900.00	5895.27	5892.44	5890.27	13.06	12.96	111.31	-73.70	24.75	79.24	53.28	3.05	
6000.00	5991.58	5989.43	5985.01	13.31	13.16	113.82	-88.00	39.72	96.66	70.30	3.67	
6100.00	6086.34	6085.67	6077.86	13.60	13.38	115.26	-105.46	57.99	117.76	90.95	4.39	
6200.00	6179.31	6181.00	6168.47	13.93	13.62	115.96	-125.92	79.40	142.35	115.04	5.21	
6300.00	6270.22	6275.29	6256.51	14.32	13.90	116.15	-149.20	103.77	170.30	142.40	6.10	
6400.00	6358.83	6368.41	6341.74	14.78	14.22	115.99	-175.12	130.89	201.49	172.89	7.05	
6500.00	6444.90	6460.28	6423.93	15.33	14.59	115.59	-203.46	160.56	235.77	206.34	8.01	
6600.00	6528.18	6550.81	6502.89	15.98	15.01	115.00	-234.03	192.55	273.04	242.62	8.98	
6700.00	6608.45	6639.95	6578.52	16.75	15.51	114.28	-266.63	226.66	313.15	281.56	9.91	
6800.00	6685.49	6727.66	6650.70	17.64	16.06	113.45	-301.05	262.69	355.97	323.01	10.80	
6817.73	6698.80	6743.07	6663.13	17.82	16.17	113.30	-307.33	269.26	363.83	330.61	10.95	
6900.00	6760.29	6814.25	6719.64	18.65	16.69	113.45	-337.24	300.56	400.74	366.25	11.62	
7000.00	6835.03	6900.14	6785.60	19.73	17.39	113.09	-375.22	340.31	446.20	410.02	12.33	
7100.00	6909.78	6985.00	6848.28	20.87	18.19	112.31	-414.73	381.66	492.39	454.34	12.94	
7100.76	6910.35	6985.64	6848.74	20.88	18.20	112.30	-415.04	381.98	492.74	454.68	12.95	
7150.00	6948.64	7027.10	6878.42	21.39	18.62	113.69	-435.04	402.92	514.90	476.05	13.25	
7200.00	6990.33	7068.75	6907.60	21.82	19.07	114.23	-455.58	424.41	535.81	496.21	13.53	
7250.00	7034.46	7109.31	6935.37	22.19	19.51	114.00	-475.99	445.77	555.25	514.95	13.78	
7300.00	7080.64	7148.17	6961.39	22.48	19.97	112.94	-495.93	466.64	573.40	532.48	14.01	
7350.00	7128.43	7184.83	6985.40	22.72	20.41	110.75	-515.07	486.67	590.55	549.13	14.26	
7400.00	7177.39	7218.85	7007.20	22.89	20.84	105.99	-533.12	505.56	607.01	565.22	14.52	
7450.00	7227.08	7249.89	7026.68	23.01	21.25	88.06	-549.81	523.03	623.10	581.09	14.83	
7500.00	7277.04	7277.70	7043.79	23.07	21.61	334.30	-564.95	538.88	639.13	597.09	15.20	
7550.00	7326.80	7302.09	7058.54	23.10	21.94	309.53	-578.37	552.92	655.38	613.49	15.65	
7600.00	7375.91	7322.97	7070.96	23.10	22.24	304.48	-589.97	565.05	672.07	630.49	16.16	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 6
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #12
Well: Spud 16 State #12
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD ft	Offset MD	Offset TVD ft	Semi-Major Axis Ref	Offset TFO-HS deg	Offset Location North	Offset Location East	Ctr-Ctr Edge Distance ft	Separation Distance ft	Warning
7650.00	7423.92	7340.30	7081.14	23.08	22.49	302.73	-599.66	575.20	689.35 648.26	16.78
7700.00	7470.38	7354.10	7089.15	23.05	22.69	302.29	-607.42	583.32	707.33 666.88	17.49
7750.00	7514.86	7364.44	7095.10	23.01	22.83	302.65	-613.26	589.44	726.00 686.33	18.30
7800.00	7556.97	7371.41	7099.08	22.99	22.93	303.57	-617.22	593.57	745.32 706.56	19.23
7850.00	7596.30	7375.13	7101.20	23.00	22.99	304.95	-619.33	595.79	765.19 727.42	20.26
7900.00	7632.50	7375.75	7101.55	23.04	23.00	306.67	-619.68	596.15	785.44 748.73	21.40
7950.00	7665.23	7373.41	7100.22	23.13	22.96	308.67	-618.35	594.76	805.88 770.26	22.62
8000.00	7694.19	7368.27	7097.29	23.28	22.89	310.86	-615.44	591.71	826.28 791.74	23.93
8050.00	7719.12	7360.49	7092.84	23.50	22.78	313.16	-611.03	587.10	846.38 812.90	25.28
8100.00	7739.79	7350.24	7086.92	23.79	22.63	315.51	-605.25	581.05	865.94 833.43	26.64
8150.00	7756.00	7337.67	7079.60	24.16	22.45	317.85	-598.18	573.65	884.68 853.03	27.95
8200.00	7767.60	7322.93	7070.94	24.60	22.24	320.12	-589.94	565.03	902.36 871.43	29.17
8250.00	7774.50	7300.00	7057.29	25.10	21.91	322.63	-577.22	551.72	918.75 888.46	30.33
8300.00	7776.62	7287.58	7049.79	25.66	21.74	324.33	-570.37	544.55	933.52 903.49	31.09
8308.09	7776.52	7284.40	7047.87	25.76	21.70	324.64	-568.63	542.73	935.75 905.77	31.21
8400.00	7774.58	7248.57	7025.86	26.94	21.23	326.44	-549.10	522.29	963.90 933.95	32.18
8500.00	7772.48	7210.70	7002.02	28.43	20.73	328.32	-528.77	501.01	1001.10 970.95	33.20
8600.00	7770.38	7173.96	6978.34	30.10	20.28	330.10	-509.36	480.70	1044.55 1014.00	34.19
8618.09	7770.00	7167.43	6974.07	30.42	20.20	330.41	-505.95	477.12	1053.02 1022.38	34.37
8700.00	7768.28	7138.33	6954.86	31.92	19.86	331.79	-490.85	461.32	1093.57 1062.51	35.21
8800.00	7766.18	7100.00	6929.05	33.86	19.40	333.56	-471.27	440.83	1147.55 1115.98	36.34
8900.00	7764.08	7070.29	6908.66	35.91	19.08	334.89	-456.35	425.21	1205.86 1173.62	37.40
9000.00	7761.97	7037.83	6886.00	38.05	18.74	336.30	-440.29	408.41	1268.01 1235.15	38.59
9100.00	7759.87	9579.19	7760.05	40.27	40.85	269.99	-1372.11	-516.42	1320.00 1238.99	16.30
9200.00	7757.77	9679.19	7757.94	42.54	43.11	269.99	-1372.53	-616.40	1320.00 1234.45	15.43
9300.00	7755.67	9779.19	7755.84	44.87	45.42	269.99	-1372.95	-716.38	1320.00 1229.80	14.63
9400.00	7753.57	9879.19	7753.74	47.25	47.78	269.99	-1373.37	-816.36	1320.00 1225.06	13.90
9500.00	7751.47	9979.19	7751.64	49.66	50.17	269.99	-1373.78	-916.33	1320.00 1220.24	13.23
9600.00	7749.36	10079.19	7749.54	52.11	52.61	269.99	-1374.20	-1016.31	1320.00 1215.36	12.61
9700.00	7747.26	10179.19	7747.44	54.59	55.07	269.99	-1374.62	-1116.29	1320.00 1210.41	12.05
9800.00	7745.16	10279.19	7745.34	57.09	57.56	269.99	-1375.04	-1216.26	1320.00 1205.41	11.52
9900.00	7743.06	10379.19	7743.24	59.61	60.07	269.99	-1375.46	-1316.24	1320.00 1200.37	11.03
10000.00	7740.96	10479.19	7741.14	62.16	62.61	269.99	-1375.87	-1416.22	1320.00 1195.29	10.58
10100.00	7738.86	10579.19	7739.04	64.72	65.16	269.99	-1376.29	-1516.19	1320.00 1190.18	10.17
10200.00	7736.75	10679.19	7736.94	67.29	67.72	269.99	-1376.71	-1616.17	1320.00 1185.03	9.78
10300.00	7734.65	10779.19	7734.83	69.88	70.30	269.99	-1377.13	-1716.15	1320.00 1179.86	9.42
10400.00	7732.55	10879.19	7732.73	72.48	72.90	269.99	-1377.55	-1816.13	1320.00 1174.66	9.08
10500.00	7730.45	10979.19	7730.63	75.09	75.50	269.99	-1377.96	-1916.10	1320.00 1169.44	8.77
10600.00	7728.35	11079.19	7728.53	77.71	78.12	269.99	-1378.38	-2016.08	1320.00 1164.21	8.47
10700.00	7726.25	11179.19	7726.43	80.34	80.74	269.99	-1378.80	-2116.06	1320.00 1158.95	8.20
10800.00	7724.14	11279.19	7724.33	82.98	83.37	269.99	-1379.22	-2216.03	1320.00 1153.68	7.94
10900.00	7722.04	11379.19	7722.23	85.63	86.01	269.99	-1379.64	-2316.01	1320.00 1148.39	7.69
11000.00	7719.94	11479.19	7720.13	88.28	88.66	269.99	-1380.05	-2415.99	1320.00 1143.09	7.46
11100.00	7717.84	11579.19	7718.03	90.94	91.31	269.99	-1380.47	-2515.97	1320.00 1137.78	7.24
11200.00	7715.74	11679.19	7715.93	93.60	93.97	269.99	-1380.89	-2615.94	1320.00 1132.45	7.04
11300.00	7713.64	11779.19	7713.83	96.27	96.64	269.99	-1381.31	-2715.92	1320.00 1127.12	6.84
11400.00	7711.53	11879.19	7711.72	98.94	99.31	269.99	-1381.73	-2815.90	1320.00 1121.78	6.66
11500.00	7709.43	11979.19	7709.62	101.62	101.98	269.99	-1382.15	-2915.87	1320.00 1116.43	6.48
11600.00	7707.33	12079.19	7707.52	104.30	104.66	269.99	-1382.56	-3015.85	1320.00 1111.07	6.32
11700.00	7705.23	12179.19	7705.42	106.98	107.34	269.99	-1382.98	-3115.83	1320.00 1105.70	6.16
11800.00	7703.13	12279.19	7703.32	109.67	110.02	269.99	-1383.40	-3215.80	1320.00 1100.33	6.01



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 7
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, Grid North
Vertical (TVD) Reference: SITE 2986.0

Db: Sybase

Site: Spud 16 State #12
Well: Spud 16 State #12
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		
11900.00	7701.03	12379.19	7701.22	112.36	112.71	269.99	-1383.82	-3315.78	1320.00	1094.95	5.87	
12000.00	7698.92	12479.19	7699.12	115.06	115.40	269.99	-1384.24	-3415.76	1320.00	1089.56	5.73	
12100.00	7696.82	12579.19	7697.02	117.75	118.10	269.99	-1384.65	-3515.74	1320.00	1084.17	5.60	
12200.00	7694.72	12679.19	7694.92	120.45	120.79	269.99	-1385.07	-3615.71	1320.00	1078.77	5.47	
12300.00	7692.62	12779.19	7692.82	123.15	123.49	269.99	-1385.49	-3715.69	1320.00	1073.37	5.35	
12400.00	7690.52	12879.19	7690.72	125.86	126.19	269.99	-1385.91	-3815.67	1320.00	1067.97	5.24	
12500.00	7688.42	12979.19	7688.61	128.56	128.90	269.99	-1386.33	-3915.64	1320.00	1062.56	5.13	
12600.00	7686.31	13079.19	7686.51	131.27	131.60	269.99	-1386.74	-4015.62	1320.00	1057.15	5.02	
12700.00	7684.21	13179.19	7684.41	133.98	134.31	269.99	-1387.16	-4115.60	1320.00	1051.73	4.92	
12800.00	7682.11	13279.19	7682.31	136.69	137.02	269.99	-1387.58	-4215.58	1320.00	1046.31	4.82	
12900.00	7680.01	13379.19	7680.21	139.41	139.73	269.99	-1388.00	-4315.55	1320.00	1040.88	4.73	
12900.40	7680.00	13379.59	7680.20	139.42	139.74	269.99	-1388.00	-4315.95	1320.00	1040.86	4.73	

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	234.63	-870.78	-1226.55	6967.20			No Data
100.00	100.00	6800.00	6797.88	0.08	0.00	234.63	-870.78	-1226.55	6869.59	6869.51	81309.23	
200.00	200.00	6800.00	6797.88	0.31	0.00	234.63	-870.78	-1226.55	6772.05	6771.74	21898.08	
300.00	300.00	6800.00	6797.88	0.53	0.00	234.63	-870.78	-1226.55	6674.59	6674.05	12498.78	
400.00	400.00	6800.00	6797.88	0.76	0.00	234.63	-870.78	-1226.55	6577.20	6576.44	8668.06	
500.00	500.00	6800.00	6797.88	0.98	0.00	234.63	-870.78	-1226.55	6479.89	6478.91	6588.26	
600.00	600.00	6800.00	6797.88	1.21	0.00	234.63	-870.78	-1226.55	6382.66	6381.46	5282.27	
700.00	700.00	6800.00	6797.88	1.43	0.00	234.63	-870.78	-1226.55	6285.52	6284.09	4386.01	
800.00	800.00	6800.00	6797.88	1.66	0.00	234.63	-870.78	-1226.55	6188.48	6186.82	3732.83	
900.00	900.00	6800.00	6797.88	1.88	0.00	234.63	-870.78	-1226.55	6091.52	6089.64	3235.67	
1000.00	1000.00	6800.00	6797.88	2.11	0.00	234.63	-870.78	-1226.55	5994.67	5992.56	2844.61	
1100.00	1100.00	6800.00	6797.88	2.33	0.00	234.63	-870.78	-1226.55	5897.93	5895.59	2528.97	
1200.00	1200.00	6800.00	6797.88	2.56	0.00	234.63	-870.78	-1226.55	5801.29	5798.73	2268.86	
1300.00	1300.00	6800.00	6797.88	2.78	0.00	234.63	-870.78	-1226.55	5704.77	5701.99	2050.84	
1400.00	1400.00	6800.00	6797.88	3.01	0.00	234.63	-870.78	-1226.55	5608.37	5605.36	1865.45	
1500.00	1500.00	6800.00	6797.88	3.23	0.00	234.63	-870.78	-1226.55	5512.10	5508.87	1705.89	
1600.00	1600.00	6800.00	6797.88	3.46	0.00	234.63	-870.78	-1226.55	5415.96	5412.51	1567.13	
1700.00	1700.00	6800.00	6797.88	3.68	0.00	234.63	-870.78	-1226.55	5319.97	5316.29	1445.35	
1800.00	1800.00	6800.00	6797.88	3.91	0.00	234.63	-870.78	-1226.55	5224.13	5220.22	1337.63	
1900.00	1900.00	6800.00	6797.88	4.13	0.00	234.63	-870.78	-1226.55	5128.44	5124.31	1241.67	
2000.00	2000.00	6800.00	6797.88	4.35	0.00	234.63	-870.78	-1226.55	5032.93	5028.57	1155.65	
2100.00	2100.00	6800.00	6797.88	4.58	0.00	234.63	-870.78	-1226.55	4937.59	4933.01	1078.12	
2200.00	2200.00	6800.00	6797.88	4.80	0.00	234.63	-870.78	-1226.55	4842.44	4837.63	1007.88	
2300.00	2300.00	6800.00	6797.88	5.03	0.00	234.63	-870.78	-1226.55	4747.48	4742.46	943.96	
2400.00	2400.00	6800.00	6797.88	5.25	0.00	234.63	-870.78	-1226.55	4652.74	4647.49	885.54	
2500.00	2500.00	6800.00	6797.88	5.48	0.00	234.63	-870.78	-1226.55	4558.23	4552.75	831.96	
2600.00	2600.00	6800.00	6797.88	5.70	0.00	234.63	-870.78	-1226.55	4463.95	4458.25	782.65	
2700.00	2700.00	6800.00	6797.88	5.93	0.00	234.63	-870.78	-1226.55	4369.93	4364.00	737.12	
2800.00	2800.00	6800.00	6797.88	6.15	0.00	234.63	-870.78	-1226.55	4276.18	4270.03	694.96	
2900.00	2900.00	6800.00	6797.88	6.38	0.00	234.63	-870.78	-1226.55	4182.72	4176.34	655.81	
3000.00	3000.00	6800.00	6797.88	6.60	0.00	234.63	-870.78	-1226.55	4089.57	4082.97	619.38	
3100.00	3100.00	6800.00	6797.88	6.83	0.00	234.63	-870.78	-1226.55	3996.75	3989.92	585.39	
3200.00	3200.00	6800.00	6797.88	7.05	0.00	234.63	-870.78	-1226.55	3904.28	3897.23	553.62	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013

Time: 09:19:11

Page: 8

Co-ordinate(N/E) Reference: Well: Spud 16 State #11H, 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 MD ft	Offset 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
3300.00	3300.00	6800.00	6797.88	7.28	0.00	234.63	-870.78	-1226.55	3812.20	3804.92	523.87	
3400.00	3400.00	6800.00	6797.88	7.50	0.00	234.63	-870.78	-1226.55	3720.52	3713.02	495.95	
3500.00	3500.00	6800.00	6797.88	7.73	0.00	234.63	-870.78	-1226.55	3629.28	3621.56	469.72	
3600.00	3600.00	6800.00	6797.88	7.95	0.00	234.63	-870.78	-1226.55	3538.52	3530.57	445.02	
3700.00	3700.00	6800.00	6797.88	8.18	0.00	234.63	-870.78	-1226.55	3448.27	3440.09	421.75	
3800.00	3800.00	6800.00	6797.88	8.40	0.00	234.63	-870.78	-1226.55	3358.57	3350.17	399.79	
3900.00	3900.00	6800.00	6797.88	8.63	0.00	234.63	-870.78	-1226.55	3269.46	3260.84	379.04	
4000.00	4000.00	6800.00	6797.88	8.85	0.00	234.63	-870.78	-1226.55	3181.01	3172.16	359.42	
4100.00	4100.00	6800.00	6797.88	9.07	0.00	234.63	-870.78	-1226.55	3093.26	3084.18	340.85	
4200.00	4200.00	6800.00	6797.88	9.30	0.00	234.63	-870.78	-1226.55	3006.27	2996.97	323.26	
4300.00	4300.00	6800.00	6797.88	9.52	0.00	234.63	-870.78	-1226.55	2920.12	2910.59	306.58	
4400.00	4400.00	6800.00	6797.88	9.75	0.00	234.63	-870.78	-1226.55	2834.87	2825.12	290.77	
4500.00	4500.00	6800.00	6797.88	9.97	0.00	234.63	-870.78	-1226.55	2750.62	2740.65	275.77	
4600.00	4600.00	6800.00	6797.88	10.20	0.00	234.63	-870.78	-1226.55	2667.46	2657.26	261.54	
4700.00	4700.00	6800.00	6797.88	10.42	0.00	234.63	-870.78	-1226.55	2585.49	2575.07	248.04	
4800.00	4800.00	6800.00	6797.88	10.65	0.00	234.63	-870.78	-1226.55	2504.84	2494.19	235.23	
4900.00	4900.00	6800.00	6797.88	10.87	0.00	234.63	-870.78	-1226.55	2425.62	2414.75	223.08	
5000.00	5000.00	6800.00	6797.88	11.10	0.00	234.63	-870.78	-1226.55	2347.99	2336.89	211.57	
5100.00	5100.00	6800.00	6797.88	11.32	0.00	234.63	-870.78	-1226.55	2272.11	2260.79	200.67	
5200.00	5200.00	6800.00	6797.88	11.55	0.00	234.63	-870.78	-1226.55	2198.16	2186.61	190.36	
5300.00	5300.00	6800.00	6797.88	11.77	0.00	234.63	-870.78	-1226.55	2126.34	2114.57	180.62	
5400.00	5400.00	6800.00	6797.88	12.00	0.00	234.63	-870.78	-1226.55	2056.88	2044.88	171.45	
5430.00	5430.00	6800.00	6797.88	12.06	0.00	234.63	-870.78	-1226.55	2036.54	2024.47	168.80	
5500.00	5499.98	6800.00	6797.88	12.21	0.00	143.99	-870.78	-1226.55	1990.80	1978.60	163.09	
5600.00	5599.78	6800.00	6797.88	12.41	0.00	145.29	-870.78	-1226.55	1930.89	1918.51	155.96	
5700.00	5699.10	6800.00	6797.88	12.61	0.00	146.34	-870.78	-1226.55	1878.06	1865.52	149.82	
5800.00	5797.69	6800.00	6797.88	12.83	0.00	147.17	-870.78	-1226.55	1833.06	1820.39	144.64	
5900.00	5895.27	6800.00	6797.88	13.06	0.00	147.80	-870.78	-1226.55	1796.62	1783.82	140.42	
6000.00	5991.58	6800.00	6797.88	13.31	0.00	148.25	-870.78	-1226.55	1769.36	1756.46	137.12	
6100.00	6086.34	6800.00	6797.88	13.60	0.00	148.53	-870.78	-1226.55	1751.80	1738.79	134.70	
6200.00	6179.31	6800.00	6797.88	13.93	0.00	148.65	-870.78	-1226.55	1744.26	1731.16	133.09	
6300.00	6270.22	6800.00	6797.88	14.32	0.00	148.61	-870.78	-1226.55	1746.91	1733.70	132.19	
6400.00	6358.83	6800.00	6797.88	14.78	0.00	148.41	-870.78	-1226.55	1759.69	1746.35	131.89	
6500.00	6444.90	6800.00	6797.88	15.33	0.00	148.04	-870.78	-1226.55	1782.35	1768.85	132.01	
6600.00	6528.18	6800.00	6797.88	15.98	0.00	147.50	-870.78	-1226.55	1814.45	1800.74	132.33	
6700.00	6608.45	7992.00	7437.12	16.75	15.09	177.65	-37.06	-1249.51	1854.40	1827.67	69.38	
6800.00	6685.49	7992.00	7437.12	17.64	15.09	177.62	-37.06	-1249.51	1879.17	1852.32	69.99	
6817.73	6698.80	7992.00	7437.12	17.82	15.09	177.61	-37.06	-1249.51	1884.60	1857.74	70.14	
6900.00	6760.29	7992.00	7437.12	18.65	15.09	177.61	-37.06	-1249.51	1912.12	1884.89	70.21	
7000.00	6835.03	7992.00	7437.12	19.73	15.09	177.61	-37.06	-1249.51	1949.73	1922.06	70.46	
7100.00	6909.78	7979.90	7437.21	20.87	14.88	177.23	-49.16	-1249.29	1991.59	1963.68	71.35	
7100.76	6910.35	7979.88	7437.21	20.88	14.88	177.23	-49.18	-1249.28	1991.93	1964.01	71.36	
7150.00	6948.64	7978.66	7437.22	21.39	14.86	176.86	-50.40	-1249.26	2011.98	1983.31	70.18	
7200.00	6990.33	7977.37	7437.23	21.82	14.84	176.36	-51.69	-1249.24	2028.98	1999.65	69.16	
7250.00	7034.46	7976.04	7437.24	22.19	14.82	175.64	-53.02	-1249.22	2042.54	2012.64	68.32	
7300.00	7080.64	7974.67	7437.26	22.48	14.80	174.51	-54.39	-1249.20	2052.58	2022.23	67.64	
7350.00	7128.43	7973.28	7437.27	22.72	14.77	172.53	-55.78	-1249.17	2059.07	2028.40	67.14	
7400.00	7177.39	7971.88	7437.29	22.89	14.75	168.11	-57.18	-1249.15	2061.99	2031.13	66.80	
7450.00	7227.08	7970.46	7437.30	23.01	14.73	150.54	-58.60	-1249.13	2061.32	2030.39	66.63	
7500.00	7277.04	7969.05	7437.32	23.07	14.70	37.04	-60.01	-1249.11	2057.07	2026.19	66.62	
7550.00	7326.80	7967.65	7437.33	23.10	14.68	12.37	-61.41	-1249.09	2049.25	2018.56	66.76	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013

Time: 09:19:11

Page: 9

Co-ordinate(NE) Reference: Well: Spud 16 State #11H, 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 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
7600.00	7375.91	7966.28	7437.35	23.10	14.66	7.15	-62.78	-1249.07	2037.90	2007.50	67.04	
7650.00	7423.92	7964.93	7437.37	23.08	14.63	4.93	-64.13	-1249.05	2023.05	1993.07	67.46	
7700.00	7470.38	7963.64	7437.38	23.05	14.61	3.68	-65.42	-1249.03	2004.78	1975.30	68.00	
7750.00	7514.86	7962.40	7437.40	23.01	14.59	2.88	-66.66	-1249.01	1983.16	1954.26	68.64	
7800.00	7556.97	7961.23	7437.42	22.99	14.57	2.30	-67.82	-1249.00	1958.27	1930.03	69.34	
7850.00	7596.30	7960.15	7437.43	23.00	14.55	1.86	-68.91	-1248.98	1930.24	1902.69	70.07	
7900.00	7632.50	7959.17	7437.45	23.04	14.54	1.49	-69.89	-1248.97	1899.18	1872.34	70.76	
7950.00	7665.23	7958.30	7437.46	23.13	14.52	1.17	-70.76	-1248.96	1865.23	1839.08	71.32	
8000.00	7694.19	7957.55	7437.47	23.28	14.51	0.87	-71.51	-1248.95	1828.56	1803.04	71.65	
8050.00	7719.12	7956.94	7437.48	23.50	14.50	0.56	-72.12	-1248.94	1789.35	1764.36	71.60	
8100.00	7739.79	7956.48	7437.49	23.79	14.49	0.23	-72.58	-1248.93	1747.80	1723.20	71.06	
8150.00	7756.00	7956.17	7437.49	24.16	14.49	-0.17	-72.88	-1248.93	1704.13	1679.75	69.89	
8200.00	7767.60	7956.04	7437.49	24.60	14.48	359.29	-73.02	-1248.93	1658.61	1634.24	68.06	
8250.00	7774.50	7956.08	7437.49	25.10	14.49	358.49	-72.97	-1248.93	1611.50	1586.94	65.59	
8300.00	7776.62	7956.30	7437.49	25.66	14.49	357.04	-72.75	-1248.93	1563.13	1538.14	62.56	
8308.09	7776.52	7956.36	7437.49	25.76	14.49	356.68	-72.70	-1248.93	1555.20	1530.12	62.01	
8400.00	7774.58	7957.00	7437.48	26.94	14.50	356.80	-72.06	-1248.94	1465.16	1439.69	57.54	
8500.00	7772.48	7957.72	7437.47	28.43	14.51	356.93	-71.34	-1248.95	1367.47	1341.56	52.78	
8600.00	7770.38	7958.47	7437.46	30.10	14.53	357.08	-70.59	-1248.96	1270.14	1243.76	48.16	
8618.09	7770.00	7958.60	7437.45	30.42	14.53	357.10	-70.45	-1248.96	1252.58	1226.12	47.34	
8700.00	7768.28	7959.24	7437.44	31.92	14.54	357.22	-69.82	-1248.97	1173.26	1146.40	43.69	
8800.00	7766.18	7960.04	7437.43	33.86	14.55	357.37	-69.01	-1248.98	1076.94	1049.60	39.39	
8900.00	7764.08	7960.88	7437.42	35.91	14.57	357.53	-68.18	-1248.99	981.37	953.54	35.27	
9000.00	7761.97	7961.75	7437.41	38.05	14.58	357.70	-67.31	-1249.00	886.77	858.46	31.33	
9100.00	7759.87	7962.65	7437.40	40.27	14.60	357.87	-66.41	-1249.01	793.49	764.73	27.59	
9200.00	7757.77	7963.59	7437.39	42.54	14.61	358.05	-65.47	-1249.03	702.07	672.89	24.06	
9300.00	7755.67	7964.56	7437.37	44.87	14.63	358.23	-64.49	-1249.04	613.33	583.81	20.78	
9400.00	7753.57	7965.58	7437.36	47.25	14.64	358.42	-63.48	-1249.06	528.62	498.88	17.77	
9500.00	7751.47	7966.65	7437.35	49.66	14.66	358.63	-62.41	-1249.07	450.23	420.46	15.13	
9600.00	7749.36	7967.76	7437.33	52.11	14.68	358.84	-61.30	-1249.09	382.06	352.57	12.96	
9700.00	7747.26	7968.92	7437.32	54.59	14.70	359.06	-60.14	-1249.11	330.49	301.53	11.41	
9800.00	7745.16	7970.14	7437.30	57.09	14.72	359.29	-58.92	-1249.12	304.11	275.38	10.58	
9900.00	7743.06	7971.41	7437.29	59.61	14.74	-0.47	-57.65	-1249.14	309.42	279.70	10.41	
10000.00	7740.96	7972.74	7437.28	62.16	14.76	-0.22	-56.32	-1249.16	344.95	313.37	10.92	
10100.00	7738.86	7974.15	7437.26	64.72	14.79	0.05	-54.91	-1249.19	402.79	369.39	12.06	
10200.00	7736.75	7975.62	7437.25	67.29	14.81	0.33	-53.44	-1249.21	474.85	439.96	13.61	
10300.00	7734.65	7977.17	7437.23	69.88	14.84	0.62	-51.89	-1249.24	555.63	519.51	15.38	
10400.00	7732.55	7978.81	7437.22	72.48	14.87	0.93	-50.25	-1249.27	641.84	604.67	17.27	
10500.00	7730.45	7980.53	7437.20	75.09	14.90	1.26	-48.53	-1249.30	731.57	693.43	19.18	
10600.00	7728.35	7982.36	7437.19	77.71	14.93	1.60	-46.70	-1249.33	823.66	784.62	21.10	
10700.00	7726.25	7984.29	7437.17	80.34	14.96	1.97	-44.77	-1249.36	917.41	877.49	22.98	
10800.00	7724.14	7986.34	7437.16	82.98	14.99	2.36	-42.72	-1249.40	1012.35	971.56	24.82	
10900.00	7722.04	7988.52	7437.14	85.63	15.03	2.77	-40.54	-1249.44	1108.18	1066.51	26.59	
11000.00	7719.94	7990.84	7437.13	88.28	15.07	3.21	-38.23	-1249.49	1204.69	1162.13	28.30	
11100.00	7717.84	7992.85	7437.12	90.94	15.10	3.59	-36.21	-1249.53	1301.72	1258.27	29.96	
11200.00	7715.74	7994.50	7437.11	93.60	15.13	3.90	-34.57	-1249.56	1399.16	1354.85	31.57	
11300.00	7713.64	7996.17	7437.10	96.27	15.16	4.21	-32.90	-1249.60	1496.94	1451.74	33.12	
11400.00	7711.53	7997.86	7437.08	98.94	15.19	4.53	-31.20	-1249.63	1595.00	1548.90	34.60	
11500.00	7709.43	7999.58	7437.07	101.62	15.22	4.85	-29.49	-1249.67	1693.28	1646.27	36.02	
11600.00	7707.33	8001.32	7437.06	104.30	15.25	5.18	-27.75	-1249.71	1791.75	1743.81	37.37	
11700.00	7705.23	8003.08	7437.05	106.98	15.28	5.51	-25.98	-1249.74	1890.38	1841.48	38.66	



Weatherford Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Spud 16 State #11H
Reference Well: Spud 16 State #11H
Reference Wellpath:

Date: 2/12/2013 Time: 09:19:11 Page: 10
Co-ordinate(NE) Reference: Well: Spud 16 State #11H, 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		
11800.00	7703.13	8004.87	7437.03	109.67	15.31	5.85	-24.20	-1249.78	1989.14	1939.27	39.89	
11900.00	7701.03	8006.69	7437.01	112.36	15.34	6.19	-22.38	-1249.82	2088.02	2037.16	41.05	
12000.00	7698.92	8008.53	7437.00	115.06	15.37	6.53	-20.54	-1249.86	2187.00	2135.11	42.15	
12100.00	7696.82	8010.39	7436.98	117.75	15.40	6.88	-18.68	-1249.90	2286.07	2233.14	43.19	
12200.00	7694.72	8012.29	7436.96	120.45	15.43	7.23	-16.78	-1249.94	2385.21	2331.21	44.16	
12300.00	7692.62	8014.21	7436.94	123.15	15.46	7.59	-14.86	-1249.98	2484.42	2429.31	45.08	
12400.00	7690.52	8016.16	7436.92	125.86	15.50	7.95	-12.91	-1250.02	2583.70	2527.45	45.94	
12500.00	7688.42	8018.14	7436.89	128.56	15.53	8.32	-10.93	-1250.06	2683.02	2625.61	46.74	
12600.00	7686.31	8020.15	7436.87	131.27	15.56	8.69	-8.93	-1250.11	2782.39	2723.79	47.48	
12700.00	7684.21	8022.18	7436.84	133.98	15.60	9.06	-6.89	-1250.15	2881.80	2821.97	48.16	
12800.00	7682.11	8024.25	7436.81	136.69	15.63	9.44	-4.82	-1250.20	2981.25	2920.16	48.80	
12900.00	7680.01	8026.35	7436.79	139.41	15.67	9.83	-2.72	-1250.25	3080.74	3018.34	49.37	
12900.40	7680.00	8026.36	7436.79	139.42	15.67	9.83	-2.71	-1250.25	3081.14	3018.74	49.38	

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

GeoDec v5.03

Report Date: February 12, 2013
Job Number: _____
Customer: Devon Energy
Well Name: Spud 16 State #11H
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 474297.090 USFT	Latitude 32.3034306 DEG
East/West 649482.370 USFT	Longitude -103.9833088 DEG
Grid Convergence: .19°	
Total Correction: +7.47°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.30343° N	32° 18 min 12.350 sec
Longitude =	103.98331° W	103° 58 min 59.912 sec

Magnetic Declination =	7.66°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6513
Local Field Strength =	48433 nT	Magnetic Vector X = 23928 nT
Magnetic Dip =	60.10°	Magnetic Vector Y = 3220 nT
Magnetic Model =	bggm2012	Magnetic Vector Z = 41986 nT
Spud Date =	Apr 15, 2013	Magnetic Vector H = 24144 nT

Signed: _____

Date: _____