5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Hadar 10 Fed Com 3H*
Well Name: *Hadar 10 Fed Com 3H Lat*
Plan: *P1:V1*

29 January 2014

Oil Conservation Division
Case No. 15273
Exhibit No. 11

Weatherford®

devon

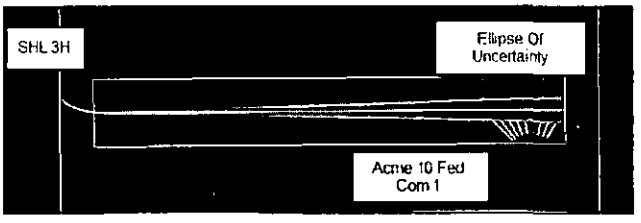
Weatherford

Hadar 10 Fed Com 3H
Eddy Co, NM

Plan Data for Hadar 10 Fed Com 3H Lat

Plan Point Information:
DogLeg Severity Unit: °/100.00ft Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	VSec (USft)	DLS (DLSU)
8501.00	0.00	0.00	8501.00	0.00	0.00	609114.35	685210.40	0.00	0.00
8705.17	24.50	150.00	8699.00	-37.23	21.50	609077.12	685231.90	21.24	12.00
9350.34	89.19	89.61	9052.65	-172.03	483.46	608942.32	685693.86	482.27	12.00
13806.48	89.19	89.61	9116.00	-141.41	4939.04	608972.94	690149.44	4937.96	0.00



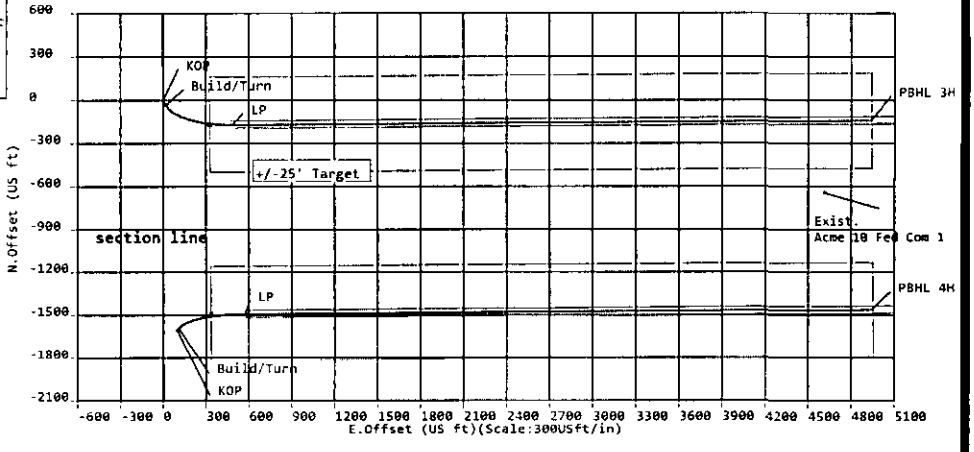
Plan Data for Hadar 10 Fed Com 3H Lat

Target Set Information:
Name: Hadar 10 Fed Com 3H
Position offsets from Slot centre

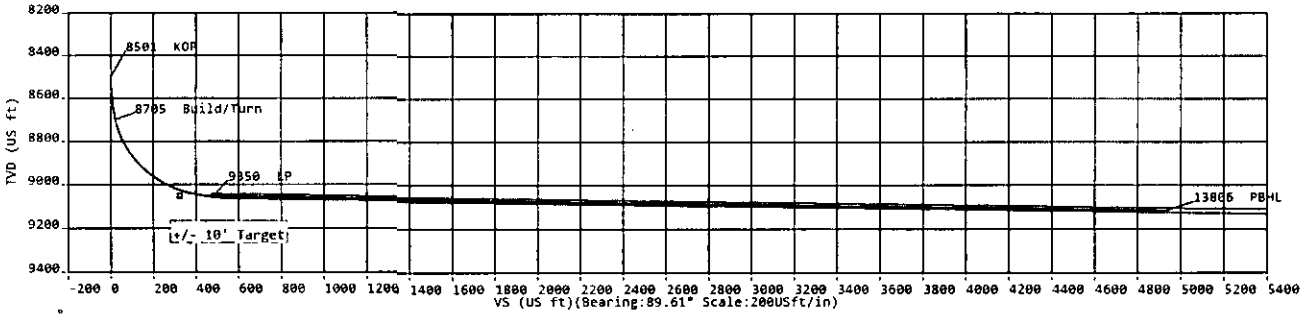
Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Northing (USft)	Easting (USft)	Shape	Comment
LP Tgt	9051.00	-172.51	326.30	608941.84	685536.70	Cuboid	
PBHL 3H	9116.00	-141.41	4939.04	608972.94	690149.44	Cuboid	

Plan Data for Hadar 10 Fed Com 3H Lat

Slot: Hadar 10 Fed Com 3H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 609114.35USft Latitude: 32°40'25.1"
+E/-W: 0.00USft Easting: 685210.40USft Longitude: -103°51'56.7"
Elevation Above VRD: 3570.00USft



Hadar 10 Fed Com 3H Lat
Hadar 10 Fed Com 3H Pilot
Exist. Acme 10 Fed Com 1
Hadar 10 Fed Com 4H



Sign Off: Russell Joyner

Hadar 10 Fed Com 3H Lat

Field Name
Eddy Co, NM (Nad 83 NME)

Map Units : US ft **Company Name :** Devon Energy
Vertical Reference Datum (VRD) : Mean Sea Level
Projected Coordinate System : NAD83 / New Mexico East (ftUS)
Comment :

Site Name
Hadar 10 Fed Com 3H

Units : US ft **North Reference** : Grid **Convergence Angle :** 0.25

Position		
	Northing : 609114.35 US ft	**Latitude :** 32° 40' 25.07"
	Easting : 685210.40 US ft	**Longitude :** -103° 51' 56.74"

Elevation above Mean Sea Level:3570.00 US ft
Comment :

Slot Name
Hadar 10 Fed Com 3H

Position (Offsets relative to Site Centre)

+N / -S : 0.00 US ft	**Northing :**609114.35 US ft	**Latitude :** 32°40'25.07"
+E / -W : 0.00 US ft	**Easting :**685210.40 US ft	**Longitude :** -103°51'56.74"

Slot TVD Reference : Ground Elevation
Elevation above Mean Sea Level : 3570.00 US ft
Comment :

Well Name
Hadar 10 Fed Com 3H Lat

Type : Sidetrack **UWI :** **Plan :** P1:V1
Parent : Hadar 10 Fed Com 3H Pilot **Tie Point Method :** MD **Tie Point :**8501.00 US ft
Rig Height *Drill Floor* : 26.00 US ft **Relative to Mean Sea Level:** 3596.00 US ft **Comment :**
Closure Distance : 4941.06 US ft **Closure Azimuth :** 91.64°
Vertical Section (Position of Origin Relative to Slot)
+N / -S : 0.00 US ft **+E / -W :** 0.00 US ft **Az :**89.61°
Magnetic Parameters
Model : BGGM **Field Strength :** 48590.5nT **Dec :** 7.55° **Dip :** 60.47° **Date :** 20/Feb/2014

Target Set

Name : Hadar 10 Fed Com 3H **Number of Targets :** 2

Comment :

Target Name:
LP Tgt

Position (Relative to Slot centre)

+N / -S : -172.51US ft	**Northing :** 608941.84 US ft	**Latitude :** 32°40'23.34"
+E / -W : 326.30 US ft	**Easting :** 685536.70US ft	**Longitude :** -103°51'52.93"

TVD (Drill Floor) : 9051.00 US ft

Shape:
Cuboid

Orientation **Azimuth :** 0.00° **Inclination :** 0.00°
Dimensions **Length :** 20.00 US ft **Breadth :** 20.00 US ft **Height :** 20.00 US ft

5D Plan Report

Target Name:	Position (Relative to Slot centre)		
PBHL 3H	**+N / -S :** -141.41US ft	**Northing :** 608972.94 US ft	**Latitude :** 32°40'23.45"
Shape:	**+E / -W :** 4939.04 US ft	**Easting :** 690149.44US ft	**Longitude :** -103°50'58.96"
Cuboid	**TVD (Drill Floor) :** 9116.00 US ft		
	Orientation **Azimuth :** 89.61°	**Inclination :** -0.80°	
	Dimensions **Length :** 8930.00 US ft	**Breadth :** 50.00 US ft	**Height :** 20.00 US ft

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	VS (US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
8501.00	0.00	0.00	8501.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
8705.17	24.50	150.00	8699.00	-37.23	21.50	12.00	21.24	12.00	0.00	150.00	Build/Turn
9350.34	89.19	89.61	9052.65	-172.03	483.46	12.00	482.27	10.03	-9.36	297.03	LP
13806.48	89.19	89.61	9116.00	-141.41	4939.04	0.00	4937.96	0.00	0.00	0.00	PBHL

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)

MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
8501.00	0.00	0.00	8501.00	0.00	0.00	0.00	0.00	609114.35	685210.40	KOP
8601.00	12.00	150.00	8600.27	-9.04	5.22	5.16	12.00	609105.31	685215.62	
8701.00	24.00	150.00	8695.20	-35.75	20.64	20.40	12.00	609078.60	685231.04	
8705.17	24.50	150.00	8699.00	-37.23	21.50	21.24	12.00	609077.12	685231.90	Build/Turn
8801.00	31.34	130.03	8783.81	-70.58	50.61	50.13	12.00	609043.77	685261.01	
8901.00	40.59	116.92	8864.78	-102.15	99.71	99.01	12.00	609012.20	685310.11	
9001.00	50.85	108.16	8934.57	-129.07	165.80	164.92	12.00	608985.28	685376.20	
9101.00	61.59	101.70	8990.13	-150.15	246.00	244.97	12.00	608964.20	685456.40	
9201.00	72.58	96.45	9029.04	-164.48	336.80	335.68	12.00	608949.87	685547.20	
9301.00	83.69	91.80	9049.58	-171.43	434.23	433.06	12.00	608942.92	685644.63	
9350.34	89.19	89.61	9052.65	-172.03	483.46	482.27	12.00	608942.32	685693.86	LP
9401.00	89.19	89.61	9053.37	-171.68	534.11	532.93	0.00	608942.67	685744.51	
9501.00	89.19	89.61	9054.79	-170.99	634.09	632.92	0.00	608943.36	685844.49	
9601.00	89.19	89.61	9056.21	-170.31	734.08	732.91	0.00	608944.04	685944.48	
9701.00	89.19	89.61	9057.64	-169.62	834.07	832.90	0.00	608944.73	686044.47	
9801.00	89.19	89.61	9059.06	-168.93	934.06	932.88	0.00	608945.42	686144.46	
9901.00	89.19	89.61	9060.48	-168.25	1034.04	1032.87	0.00	608946.10	686244.44	
10001.00	89.19	89.61	9061.90	-167.56	1134.03	1132.86	0.00	608946.79	686344.43	
10101.00	89.19	89.61	9063.32	-166.87	1234.02	1232.85	0.00	608947.48	686444.42	
10201.00	89.19	89.61	9064.74	-166.18	1334.01	1332.84	0.00	608948.17	686544.41	
10301.00	89.19	89.61	9066.17	-165.50	1433.99	1432.83	0.00	608948.85	686644.39	
10401.00	89.19	89.61	9067.59	-164.81	1533.98	1532.82	0.00	608949.54	686744.38	
10501.00	89.19	89.61	9069.01	-164.12	1633.97	1632.81	0.00	608950.23	686844.37	
10601.00	89.19	89.61	9070.43	-163.44	1733.96	1732.80	0.00	608950.91	686944.36	
10701.00	89.19	89.61	9071.85	-162.75	1833.94	1832.79	0.00	608951.60	687044.34	
10801.00	89.19	89.61	9073.27	-162.06	1933.93	1932.78	0.00	608952.29	687144.33	
10901.00	89.19	89.61	9074.70	-161.37	2033.92	2032.77	0.00	608952.98	687244.32	
11001.00	89.19	89.61	9076.12	-160.69	2133.90	2132.76	0.00	608953.66	687344.30	
11100.99	89.19	89.61	9077.54	-160.00	2233.89	2232.75	0.00	608954.35	687444.29	
11200.99	89.19	89.61	9078.96	-159.31	2333.88	2332.74	0.00	608955.04	687544.28	
11300.99	89.19	89.61	9080.38	-158.63	2433.87	2432.73	0.00	608955.72	687644.27	
11400.99	89.19	89.61	9081.80	-157.94	2533.85	2532.72	0.00	608956.41	687744.25	
11500.99	89.19	89.61	9083.22	-157.25	2633.84	2632.71	0.00	608957.10	687844.24	
11600.99	89.19	89.61	9084.65	-156.56	2733.83	2732.70	0.00	608957.79	687944.23	
11700.99	89.19	89.61	9086.07	-155.88	2833.82	2832.69	0.00	608958.47	688044.22	
11800.99	89.19	89.61	9087.49	-155.19	2933.80	2932.68	0.00	608959.16	688144.20	

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
11900.99	89.19	89.61	9088.91	-154.50	3033.79	3032.67	0.00	608959.85	688244.19	
12000.99	89.19	89.61	9090.33	-153.82	3133.78	3132.66	0.00	608960.53	688344.18	
12100.99	89.19	89.61	9091.75	-153.13	3233.77	3232.65	0.00	608961.22	688444.17	
12200.99	89.19	89.61	9093.18	-152.44	3333.75	3332.64	0.00	608961.91	688544.15	
12300.99	89.19	89.61	9094.60	-151.75	3433.74	3432.63	0.00	608962.60	688644.14	
12400.99	89.19	89.61	9096.02	-151.07	3533.73	3532.62	0.00	608963.28	688744.13	
12500.99	89.19	89.61	9097.44	-150.38	3633.71	3632.61	0.00	608963.97	688844.11	
12600.99	89.19	89.61	9098.86	-149.69	3733.70	3732.60	0.00	608964.66	688944.10	
12700.99	89.19	89.61	9100.28	-149.01	3833.69	3832.59	0.00	608965.34	689044.09	
12800.99	89.19	89.61	9101.71	-148.32	3933.68	3932.58	0.00	608966.03	689144.08	
12900.99	89.19	89.61	9103.13	-147.63	4033.66	4032.57	0.00	608966.72	689244.06	
13000.99	89.19	89.61	9104.55	-146.94	4133.65	4132.56	0.00	608967.41	689344.05	
13100.99	89.19	89.61	9105.97	-146.26	4233.64	4232.54	0.00	608968.09	689444.04	
13200.99	89.19	89.61	9107.39	-145.57	4333.63	4332.53	0.00	608968.78	689544.03	
13300.99	89.19	89.61	9108.81	-144.88	4433.61	4432.52	0.00	608969.47	689644.01	
13400.99	89.19	89.61	9110.24	-144.20	4533.60	4532.51	0.00	608970.15	689744.00	
13500.99	89.19	89.61	9111.66	-143.51	4633.59	4632.50	0.00	608970.84	689843.99	
13600.99	89.19	89.61	9113.08	-142.82	4733.58	4732.49	0.00	608971.53	689943.98	
13700.99	89.19	89.61	9114.50	-142.13	4833.56	4832.48	0.00	608972.22	690043.96	
13800.99	89.19	89.61	9115.92	-141.45	4933.55	4932.47	0.00	608972.90	690143.95	
13806.48	89.19	89.61	9116.00	-141.41	4939.04	4937.96	0.00	608972.94	690149.44	PBHL

5D Anti-Collision Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*
Site Name: *Hadar 10 Fed Com 3H*
Well Name: *Hadar 10 Fed Com 3H Lat*

29 January 2014

Weatherford

Hadar 10 Fed Com 3H Lat

Field Name Eddy Co, NM (Nad 83 NME)	**Map Units :** US ft		**Company Name :** Devon Energy
	Vertical Reference Datum (VRD) : Mean Sea Level		
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)		
	Comment :		
Site Name Hadar 10 Fed Com 3H	**Units :** US ft	**North Reference** : Grid	**Convergence Angle :** 0.25
	Position	**Northing :** 609114.35 US ft	**Latitude :** 32° 40' 25.07"
		Easting : 685210.40 US ft	**Longitude :** -103° 51' 56.74"
	Elevation above Mean Sea Level:3570.00 US ft		
	Comment :		
Slot Name Hadar 10 Fed Com 3H	**Position (Offsets relative to Site Centre)**		
	+N / -S : 0.00 US ft	**Northing :**609114.35 US ft	**Latitude :** 32°40'25.07"
	+E / -W : 0.00 US ft	**Easting :**685210.40 US ft	**Longitude :** -103°51'56.74"
	Slot TVD Reference : Ground Elevation		
	Elevation above Mean Sea Level : 3570.00 US ft		
	Comment :		
Well Name Hadar 10 Fed Com 3H Lat	**Type :** Sidetrack	**UWI :**	**Plan :** Working Plan
	Parent : Hadar 10 Fed Com 3H Pilot	**Tie Point Method :** MD	**Tie Point :**8501.00 US ft
	Rig Height *Drill Floor* : 26.00 US ft **Relative to Mean Sea Level:** 3596.00 US ft	**Comment :**	
	Closure Distance : 4941.06 US ft	**Closure Azimuth :** 91.64°	
	Vertical Section (Position of Origin Relative to Slot)		
	+N / -S : 0.00 US ft	**+E / -W :** 0.00 US ft	**Az :**89.61°
	Magnetic Parameters		
	Model : BGGM **Field Strength :** 48590.5nT	**Dec :** 7.55°	**Dip :** 60.47° **Date :** 20/Feb/2014

Collision / Uncertainty Analysis

Primary Well	Start MD (US ft)	End MD (US ft)	Collision Risk Interval	No. of Std Deviations in Error Computation
Hadar 10 Fed Com 3H Lat (p)	0.00	13806.48	100.00	2

Secondary Well Names

Exist. Acme 10 Fed Com 1 (s)

Anti Collision Report Terminology

S.Minor, S.Major :Radii of the ellipse of uncertainty at the current location as seen in the along hole direction.
PHI :Angle between high-side vector and semi-minor axis
TVD Spread :Total TVD range of the ellipsoid of uncertainty at the current location
ES :Distance between the extremities of the primary and secondary uncertainty ellipsoids in the direction Cr-Cr
T.Face to Sec :Angle between the Hi-Side vector of the primary well at the current location and line of closest approach between the two wells

Separation factors calculated using Pedal Curve (Independent Uncertainty). Well path created using minimum curvature.

Anti Collision Proximity Summary (TVD relative to)

SF

Secondary Well Name	Pri MD (US ft)	Sec MD (US ft)	TVD (US ft)	CC (US ft)	ES (US ft)	SF	Risk
Exist. Acme 10 Fed Com 1 (s)	13494.36	9092.06	9111.56	501.72	102.22	1.26	SF (Med)

Secondary Well : Exist. Acme 10 Fed Com 1 (s) (TVD Relative to Drill Floor (Primary) ; All Azimuth Relative to GRID NORTH)

Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
8501.00	8501.00	8481.50	97.95	252.92	252.92	4662.94	4390.47	17.11	
8601.00	8600.27	8580.77	307.24	255.88	255.88	4656.53	4380.97	16.90	
8701.00	8695.20	8675.70	305.08	258.71	258.71	4637.67	4359.12	16.65	
8801.00	8783.82	8764.32	322.90	261.47	261.47	4603.48	4322.08	16.36	
8901.00	8864.78	8845.28	334.31	263.95	263.95	4550.90	4266.87	16.02	
9001.00	8934.57	8915.07	342.06	266.08	266.08	4482.10	4195.83	15.66	
9101.00	8990.13	8970.63	349.09	267.76	267.76	4400.02	4111.98	15.28	
9201.00	9029.04	9009.54	359.86	268.93	268.93	4308.19	4018.88	14.89	
9301.00	9049.58	9030.08	36.53	269.55	269.55	4210.59	3920.67	14.52	
9401.00	9053.37	9033.87	83.40	269.66	269.66	4111.34	3821.23	14.17	
9501.00	9054.79	9035.29	83.56	269.70	269.70	4012.12	3721.95	13.83	
9601.00	9056.21	9036.71	83.72	269.75	269.75	3912.93	3622.74	13.48	
9701.00	9057.64	9038.14	83.88	269.79	269.79	3813.79	3523.49	13.14	
9801.00	9059.06	9039.56	84.04	269.83	269.83	3714.69	3424.28	12.79	
9901.00	9060.48	9040.98	84.20	269.87	269.87	3615.64	3325.13	12.45	
10001.00	9061.90	9042.40	84.37	269.92	269.92	3516.64	3226.03	12.10	
10101.00	9063.32	9043.82	84.53	269.96	269.96	3417.71	3127.00	11.76	
10201.00	9064.74	9045.24	84.69	270.00	270.00	3318.83	3028.03	11.41	
10301.00	9066.17	9046.67	84.85	270.04	270.04	3220.03	2929.03	11.07	
10401.00	9067.59	9048.09	85.01	270.09	270.09	3121.30	2830.11	10.72	
10501.00	9069.01	9049.51	85.17	270.13	270.13	3022.65	2731.27	10.37	
10601.00	9070.43	9050.93	85.33	270.17	270.17	2924.09	2632.53	10.03	
10701.00	9071.85	9052.35	85.49	270.21	270.21	2825.63	2533.88	9.69	
10801.00	9073.27	9053.77	85.65	270.26	270.26	2727.29	2435.22	9.34	
10901.00	9074.70	9055.20	85.82	270.30	270.30	2629.07	2336.67	8.99	
11001.00	9076.12	9056.62	85.98	270.34	270.34	2530.99	2238.25	8.65	
11101.00	9077.54	9058.04	86.14	270.38	270.38	2433.06	2139.98	8.30	
11201.00	9078.96	9059.46	86.30	270.43	270.43	2335.31	2041.76	7.96	
11301.00	9080.38	9060.88	86.46	270.47	270.47	2237.76	1943.67	7.61	
11401.00	9081.80	9062.30	86.62	270.51	270.51	2140.43	1845.79	7.26	
11501.00	9083.22	9063.72	86.79	270.55	270.55	2043.36	1748.15	6.92	
11601.00	9084.65	9065.15	86.95	270.60	270.60	1946.58	1650.57	6.58	
11701.00	9086.07	9066.57	87.11	270.64	270.64	1850.15	1553.04	6.23	
11801.00	9087.49	9067.99	87.27	270.68	270.68	1754.11	1455.44	5.87	
11901.00	9088.91	9069.41	87.43	270.72	270.72	1658.54	1358.00	5.52	
12001.00	9090.33	9070.83	87.60	270.77	270.77	1563.53	1260.93	5.17	
12101.00	9091.75	9072.25	87.76	270.81	270.81	1469.17	1164.40	4.82	
12201.00	9093.18	9073.68	87.92	270.85	270.85	1375.61	1068.36	4.48	
12301.00	9094.60	9075.10	88.08	270.89	270.89	1283.03	973.01	4.14	
12401.00	9096.02	9076.52	88.25	270.94	270.94	1191.63	878.75	3.81	
12501.00	9097.44	9077.94	88.41	270.98	270.98	1101.74	784.43	3.47	
12601.00	9098.86	9079.36	88.57	271.02	271.02	1013.73	691.03	3.14	
12701.00	9100.28	9080.78	88.73	271.06	271.06	928.16	599.89	2.83	
12801.00	9101.71	9082.21	88.89	271.11	271.11	845.75	511.25	2.53	
12901.00	9103.13	9083.63	89.06	271.15	271.15	767.54	424.27	2.24	
13001.00	9104.55	9085.05	89.22	271.19	271.19	694.93	342.90	1.97	SF (Lo)
13101.00	9105.97	9086.47	89.38	271.23	271.23	629.87	266.77	1.73	SF (Lo)
13201.00	9107.39	9087.89	89.54	271.27	271.27	574.93	200.43	1.54	SF (Lo)
13301.00	9108.81	9089.31	89.71	271.32	271.32	533.24	147.74	1.38	SF (Med)
13401.00	9110.24	9090.74	89.87	271.36	271.36	508.08	113.43	1.29	SF (Med)
13501.00	9111.66	9092.16	90.03	271.40	271.40	501.93	102.33	1.26	SF (Med)
13601.00	9113.08	9093.58	90.19	271.44	271.44	515.48	115.98	1.29	SF (Med)

5D Anti-Collision Report

Secondary Well : Exist. Acme 10 Fed Com 1 (s) (TVD Relative to Drill Floor (Primary) ; All Azimuth Relative to GRID NORTH)									
Pri MD (US ft)	TVD (US ft)	Sec MD (US ft)	T.Face to Sec (°)	S.Major (US ft)	S.Minor (US ft)	CC (US ft)	ES (US ft)	SF	Risk
13701.00	9114.50	9095.00	90.36	271.49	271.49	547.27	151.95	1.38	SF (Med)
13801.00	9115.92	9096.42	90.52	271.53	271.53	594.38	205.44	1.53	SF (Lo)
13806.48	9116.00	9096.50	90.53	271.53	271.53	597.34	208.86	1.54	SF (Lo)

Weatherford Drilling Services

GeoDec v5.03

Report Date:	January 28, 2014
Job Number:	
Customer:	Devon Energy
Well Name:	Hadar 10 Fed Com 3H
API Number:	
Rig Name:	
Location:	Eddy Co., NM (NAD 83)
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 609114.350 USFT	Latitude 32.6736293 DEG
East/West 685210.400 USFT	Longitude -103.8657607 DEG
Grid Convergence: .25°	
Total Correction: +7.30°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.67363° N	32° 40 min 25.065 sec
Longitude =	103.86576° W	103° 51 min 56.739 sec

Magnetic Declination =	7.55°	[True North Offset]	
Local Gravity =	.9988 g	CheckSum =	6608
Local Field Strength =	48591 nT	Magnetic Vector X =	23739 nT
Magnetic Dip =	60.47°	Magnetic Vector Y =	3145 nT
Magnetic Model =	bggm2013	Magnetic Vector Z =	42280 nT
Spud Date =	Feb 20, 2014	Magnetic Vector H =	23947 nT

Signed:_____ Date:_____