

5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*

Site Name: *Hadar 10 Fed Com 4H*

Well Name: *Hadar 10 Fed Com 4H*

Plan: *P1:V1*

29 January 2014

Oil Conservation Division
Case No. 15286
Exhibit No. II



Weatherford®

devon

Hadar 10 Fed Com 4H
Eddy Co, NM



Plan Data for Hadar 10 Fed Com 4H

Plan Point Information:

Dogleg Severity Unit: °/100.00ft Position offsets from Slot centre										
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	OLS	
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)	
0.00	0.00	0.00	0.00	0.00	0.00	607504.35	685311.81	0.00	0.00	
8552.80	0.00	0.00	8552.80	0.00	0.00	607504.35	685311.81	0.00	0.00	
8688.22	16.25	30.00	8686.41	16.52	9.54	607520.87	685321.35	9.65	12.00	
9364.90	89.32	89.61	9084.16	118.52	476.01	607622.87	685787.82	476.81	12.00	
13737.45	89.32	89.61	9136.00	148.63	4848.15	607652.98	690159.96	4849.05	0.00	

Plan Data for Hadar 10 Fed Com 4H

Target Set Information:

Name: Hadar 10 Fed Com 4H

Position offsets from Slot centre

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	Comment
(USft)	(USft)	(USft)	(USft)	(USft)	(USft)		
LP Tgt	9081.00	117.53	234.25	607621.88	685546.06	Cuboid	
PBHL	9136.00	148.63	4848.15	607652.98	690159.96	Cuboid	

Plan Data for Hadar 10 Fed Com 4H

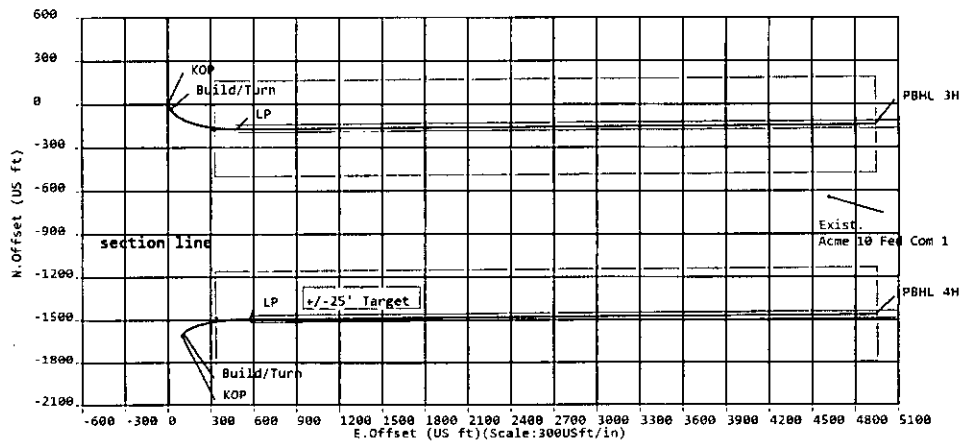
Slot: Hadar 10 Fed Com 4H

Position:

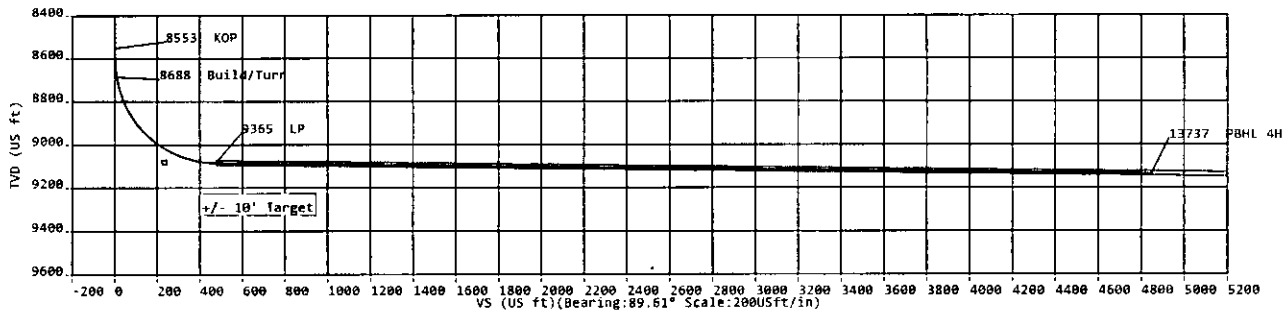
Offset is from Site centre

+N/-S: 0.00USft Northing: 607504.35USft Latitude: 32°40'9.1"
+E/-W: 0.00USft Easting: 685311.81USft Longitude: -103°51'55.6"
Elevation Above VRD: 1561.00USft

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



KB-3587
GL-3561



Sign Off: Russell Joyner

Hadar 10 Fed Com 4H

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 4H	Units : US ft	North Reference : Grid	Convergence Angle : 0.25	
	Position	Northing : 607504.35 US ft	Latitude : 32° 40' 9.13"	
		Easting : 685311.81 US ft	Longitude : -103° 51' 55.64"	
	Elevation above Mean Sea Level: 3561.00 US ft			
Comment :				
Slot Name Hadar 10 Fed Com 4H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 607504.35 US ft	Latitude : 32°40'9.13"	
	+E / -W : 0.00 US ft	Easting : 685311.81 US ft	Longitude : -103°51'55.64"	
	Slot TVD Reference : Ground Elevation			
	Elevation above Mean Sea Level : 3561.00 US ft			
Comment :				
Well Name Hadar 10 Fed Com 4H	Type : Main well		UWI :	Plan : P1:V1
	Rig Height Drill Floor : 26.00 US ft		Comment :	
	Relative to Mean Sea Level: 3587.00 US ft			
	Closure Distance : 4850.43 US ft		Closure Azimuth : 88.244°	
	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 : 48578.9nT	Dec : 7.54°	Dip : 60.47° Date : 20/Mar/2014

Target Set

Name : Hadar 10 Fed Com 4H **Number of Targets :** 2

Comment :

Target Name: LP Tgt Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 117.53US ft	Northing : 607621.88 US ft	Latitude : 32°40'10.28"	
	+E / -W : 234.25 US ft	Easting : 685546.06US ft	Longitude : -103°51'52.89"	
	TVD (Drill Floor) : 9081.00 US ft			
Orientation Azimuth : 0.00°		Inclination : 0.00°		
Dimensions Length : 20.00 US ft		Breadth : 20.00 US ft	Height : 20.00 US ft	

SD Plan Report

Target Name:	Position (Relative to Slot centre)					
PBHL	+N / -S : 148.63US ft	Northing : 607652.98 US ft		Latitude : 32°40'10.39"		
	+E / -W : 4848.15 US ft	Easting : 690159.96US ft		Longitude : -103°50'58.91"		
Shape:	TVD (Drill Floor) : 9136.00 US ft					
Cuboid	Orientation Azimuth : 89.61°		Inclination : -0.68°			
	Dimensions Length : 8744.00 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)											Comment
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 (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8552.80	0.00	0.00	8552.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
8688.22	16.25	30.00	8686.41	16.52	9.54	12.00	9.65	12.00	0.00	30.00	Build/Turn
9364.90	89.32	89.61	9084.16	118.52	476.01	12.00	476.81	10.80	8.81	60.78	LP
13737.45	89.32	89.61	9136.00	148.63	4848.15	0.00	4849.05	0.00	0.00	0.00	PBHL 4H

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)											Comment
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)		
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	607504.35	685311.81		
8552.80	0.00	0.00	8552.80	0.00	0.00	0.00	0.00	607504.35	685311.81		KOP
8600.00	5.66	30.00	8599.92	2.02	1.17	1.18	12.00	607506.37	685312.98		
8688.22	16.25	30.00	8686.41	16.52	9.54	9.65	12.00	607520.87	685321.35		Build/Turn
8700.00	16.98	34.23	8697.70	19.37	11.33	11.46	12.00	607523.72	685323.14		
8800.00	25.55	57.99	8790.97	42.96	37.93	38.22	12.00	607547.31	685349.74		
8900.00	36.05	69.53	8876.82	64.77	83.96	84.39	12.00	607569.12	685395.77		
9000.00	47.19	76.29	8951.49	83.82	147.39	147.96	12.00	607588.17	685459.20		
9100.00	58.61	80.94	9011.74	99.30	225.46	226.13	12.00	607603.65	685537.27		
9200.00	70.16	84.56	9054.91	110.52	314.75	315.50	12.00	607614.87	685626.56		
9300.00	81.77	87.69	9079.12	116.99	411.37	412.16	12.00	607621.34	685723.18		
9364.90	89.32	89.61	9084.16	118.52	476.01	476.81	12.00	607622.87	685787.82		LP
9400.00	89.32	89.61	9084.58	118.76	511.11	511.90	0.00	607623.11	685822.92		
9500.00	89.32	89.61	9085.76	119.45	611.10	611.89	0.00	607623.80	685922.91		
9600.00	89.32	89.61	9086.95	120.13	711.09	711.89	0.00	607624.48	686022.90		
9700.00	89.32	89.61	9088.13	120.82	811.08	811.88	0.00	607625.17	686122.89		
9800.00	89.32	89.61	9089.32	121.51	911.07	911.87	0.00	607625.86	686222.88		
9900.00	89.32	89.61	9090.51	122.20	1011.06	1011.87	0.00	607626.55	686322.87		
10000.00	89.32	89.61	9091.69	122.89	1111.05	1111.86	0.00	607627.24	686422.86		
10100.00	89.32	89.61	9092.88	123.58	1211.04	1211.85	0.00	607627.93	686522.85		
10200.00	89.32	89.61	9094.06	124.27	1311.03	1311.84	0.00	607628.62	686622.84		
10300.00	89.32	89.61	9095.25	124.96	1411.02	1411.84	0.00	607629.31	686722.83		
10400.00	89.32	89.61	9096.43	125.64	1511.01	1511.83	0.00	607629.99	686822.82		
10500.00	89.32	89.61	9097.62	126.33	1611.00	1611.82	0.00	607630.68	686922.81		
10600.00	89.32	89.61	9098.80	127.02	1710.99	1711.82	0.00	607631.37	687022.80		
10700.00	89.32	89.61	9099.99	127.71	1810.98	1811.81	0.00	607632.06	687122.79		
10800.00	89.32	89.61	9101.18	128.40	1910.97	1911.80	0.00	607632.75	687222.78		
10900.00	89.32	89.61	9102.36	129.09	2010.96	2011.79	0.00	607633.44	687322.77		
11000.00	89.32	89.61	9103.55	129.78	2110.95	2111.79	0.00	607634.13	687422.76		
11099.99	89.32	89.61	9104.73	130.47	2210.94	2211.78	0.00	607634.82	687522.75		
11199.99	89.32	89.61	9105.92	131.15	2310.93	2311.77	0.00	607635.50	687622.74		
11299.99	89.32	89.61	9107.10	131.84	2410.92	2411.76	0.00	607636.19	687722.73		
11399.99	89.32	89.61	9108.29	132.53	2510.91	2511.76	0.00	607636.88	687822.72		
11499.99	89.32	89.61	9109.47	133.22	2610.90	2611.75	0.00	607637.57	687922.71		
11599.99	89.32	89.61	9110.66	133.91	2710.89	2711.74	0.00	607638.26	688022.70		

SD 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
11699.99	89.32	89.61	9111.85	134.60	2810.88	2811.74	0.00	607638.95	688122.69	
11799.99	89.32	89.61	9113.03	135.29	2910.87	2911.73	0.00	607639.64	688222.68	
11899.99	89.32	89.61	9114.22	135.98	3010.87	3011.72	0.00	607640.33	688322.68	
11999.99	89.32	89.61	9115.40	136.66	3110.86	3111.71	0.00	607641.01	688422.67	
12099.99	89.32	89.61	9116.59	137.35	3210.85	3211.71	0.00	607641.70	688522.66	
12199.99	89.32	89.61	9117.77	138.04	3310.84	3311.70	0.00	607642.39	688622.65	
12299.99	89.32	89.61	9118.96	138.73	3410.83	3411.69	0.00	607643.08	688722.64	
12399.99	89.32	89.61	9120.14	139.42	3510.82	3511.69	0.00	607643.77	688822.63	
12499.99	89.32	89.61	9121.33	140.11	3610.81	3611.68	0.00	607644.46	688922.62	
12599.99	89.32	89.61	9122.51	140.80	3710.80	3711.67	0.00	607645.15	689022.61	
12699.99	89.32	89.61	9123.70	141.48	3810.79	3811.66	0.00	607645.83	689122.60	
12799.99	89.32	89.61	9124.89	142.17	3910.78	3911.66	0.00	607646.52	689222.59	
12899.99	89.32	89.61	9126.07	142.86	4010.77	4011.65	0.00	607647.21	689322.58	
12999.99	89.32	89.61	9127.26	143.55	4110.76	4111.64	0.00	607647.90	689422.57	
13099.99	89.32	89.61	9128.44	144.24	4210.75	4211.63	0.00	607648.59	689522.56	
13199.99	89.32	89.61	9129.63	144.93	4310.74	4311.63	0.00	607649.28	689622.55	
13299.99	89.32	89.61	9130.81	145.62	4410.73	4411.62	0.00	607649.97	689722.54	
13399.99	89.32	89.61	9132.00	146.31	4510.72	4511.61	0.00	607650.66	689822.53	
13499.99	89.32	89.61	9133.18	146.99	4610.71	4611.61	0.00	607651.34	689922.52	
13599.99	89.32	89.61	9134.37	147.68	4710.70	4711.60	0.00	607652.03	690022.51	
13699.99	89.32	89.61	9135.56	148.37	4810.69	4811.59	0.00	607652.72	690122.50	
13737.45	89.32	89.61	9136.00	148.63	4848.15	4849.05	0.00	607652.98	690159.96	PBHL 4H



Weatherford

Weatherford Drilling Services

GeoDec v5.03

Report Date: January 28, 2014
Job Number: _____
Customer: Devon Energy
Well Name: Hadar 10 Fed Com 4H
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 607504.350 USFT	Latitude 32.6692028 DEG
East/West 685311.810 USFT	Longitude -103.8654542 DEG
Grid Convergence: .25°	
Total Correction: +7.29°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.66920° N	32° 40 min 9.130 sec
Longitude =	103.86545° W	103° 51 min 55.635 sec

Magnetic Declination =	7.54°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6721
Local Field Strength =	48579 nT	Magnetic Vector X = 23739 nT
Magnetic Dip =	60.47°	Magnetic Vector Y = 3141 nT
Magnetic Model =	bggm2013	Magnetic Vector Z = 42267 nT
Spud Date =	Mar 20, 2014	Magnetic Vector H = 23946 nT

Signed: _____

Date: _____