



North Thistle 34
State Com 2H
Lea Co, NM



Plan Data for North Thistle 34 State Com 2H

Plan Point Information:
DogLeg Severity Unit: */100.00ft
Position offsets from Slot centre
MD Inc Az TVD +N/-S +E/-W Northing Easting VSec DLS
(USft) (°) (°) (USft) (USft) (USft) (USft) (USft) (USft) (DLSU)
0.00 0.00 0.00 0.00 0.00 0.00 488963.77 777934.07 0.00 0.00
8999.54 0.00 0.00 8999.54 0.00 0.00 488963.77 777934.07 0.00 0.00
9749.54 90.00 359.57 9477.00 477.45 -3.60 489441.22 777930.47 477.47 12.00
13890.04 90.00 359.57 9477.00 4617.83 -34.82 493581.60 777899.25 4617.96 0.00

Plan Data for North Thistle 34 State Com 2H

Slot: North Thistle 34 State Com 2H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 488963.77USft Latitude: 32.341906°
+E/-W: 0.00USft Easting: 777934.07USft Longitude: -103.567243°
Elevation Above VRD: 3565.00USft

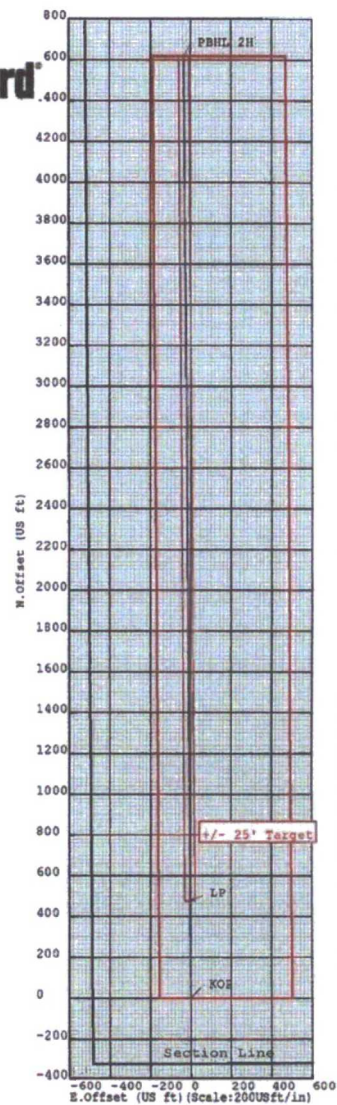
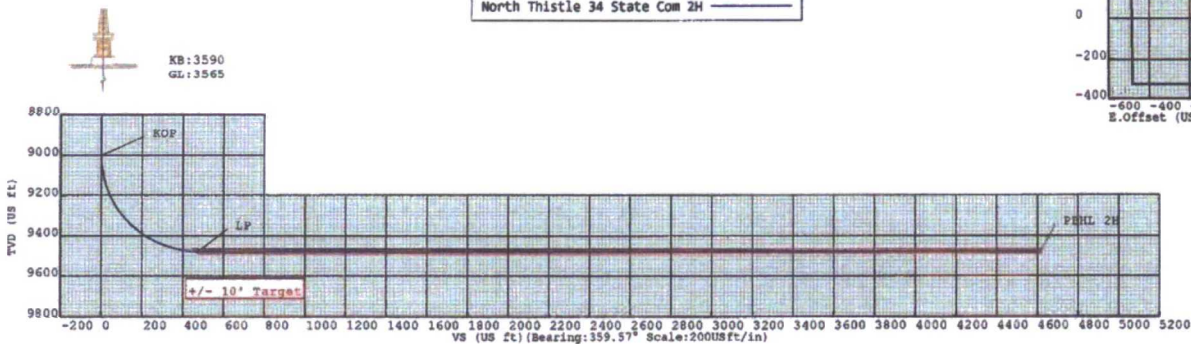
Plan Data for North Thistle 34 State Com 2H

Target Set Information:
Name: North Thistle 34 State Com 2H
Position offsets from Slot centre
Name TVD TVD SS +N/-S +E/-W Northing Easting
(USft) (USft) (USft) (USft) (USft) (USft)
PBHL 2H 9477.00 -5887.00 4617.83 -34.82 493581.60 777899.25

Plan Data for North Thistle 34 State Com 2H

Well: North Thistle 34 State Com 2H
Type: Main-Well
File Number:
Plan Folder: P1 Plan: P1:V1
Vertical Section: Position offset of origin from Slot centre:
+N/-S: 0.00USft Azimuth: 359.57°
+E/-W: 0.00USft
Magnetic Parameters:
Model: Field Strength: Declination: Dip: Date:
BGM NOT_DEFINED 48283(nT) 7.23° 60.25° 2015-10-15

North Thistle 34 State Com 2H





5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *North Thistle 34 State Com 2H*
Well Name: *North Thistle 34 State Com 2H*
Plan: *P1:V1*

16 July 2015





North Thistle 34 State Com 2H

Field Name: Lea Co, NM Nad 83 NMEZ	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: North Thistle 34 State Com 2H	Units: US ft	North Reference: Grid	Convergence Angle: 0.41	
	Position:	Northing: 488963.77US ft	Latitude: 32° 20' 30.86"	
		Easting: 777934.07US ft	Longitude: -103° 34' 2.07"	
	Elevation above MSL:3565.00 US ft	Comment:		
Slot: North Thistle 34 State Com 2H	Position (Relative to Site Centre)			
	+N/-S: 0.00US ft	Northing: 488963.77US ft	Latitude: 32°20'30.86"	
	+E/-W: 0.00US ft	Easting: 777934.07US ft	Longitude: -103°34'2.07"	
	Slot TVD Reference: Ground Elevation			
Elevation above MSL: 3565.00US ft	Comment:			
Well: North Thistle 34 State Com 2H	Type:Main well	UWI:	Plan:P1:V1	
	File Number:	Comment:		
	Closure Distance:4617.96US ft	Closure Azimuth:359.57°		
	Vertical Section: Position of Origin (Relative to Slot centre)			
	+N/-S: 0.00US ft	+E/-W: 0.00US ft	Az: 359.57°	
	Magnetic Parameters:			
	Model: BGGM_NOT_DEFIN	Field Strength: 48283.5nT	Declination: 7.23°	Dip: 60.25°
ED				

Drill floor: Plan: P1:V1

Rig Height (Kelly Bushing): **Elevation above MSL:** 3590.00us ft
25.00us ft

Inclination: 0.00°

Azimuth: 0.00°

Target set: North Thistle 34 State Com 2H **Comment:**

Target Name:	Shape:	TVD (US ft)	N Offset (US ft)	E Offset (US ft)	North Lag (US ft)	Easting (US ft)	Comment:
PBHL 2H	Cuboid	9477.00	4617.83	-34.82	493581.60	777899.25	

Wellpath created using minimum curvature.

Tie Point:
MD: 0.00USft **Inclination:** 0.00° **Azimuth:** 0.00° **TVD:** 0.00USft **North Offset:** 0.00USft **East Offset:** 0.00USft

SD Plan Report

Salient Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	B. Rate (°/100US ft)	T. Rate (°/100US ft)	T. Face (°)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8999.54	0.00	0.00	8999.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
9749.54	90.00	359.57	9477.00	477.45	-3.60	477.47	12.00	12.00	0.00	359.57	LP
13890.04	90.00	359.57	9477.00	4617.83	-34.82	4617.96	0.00	0.00	0.00	0.00	PBHL 2H

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100US ft)	Northing (US ft)	Easting (US ft)	Corr. height	
8900.00	0.00	0.00	8900.00	0.00	0.00	0.00	0.00	488963.77	777934.07		
8999.54	0.00	0.00	8999.54	0.00	0.00	0.00	0.00	488963.77	777934.07		KOP
9000.00	0.06	359.57	9000.00	0.00	-0.00	0.00	12.00	488963.77	777934.07		
9100.00	12.06	359.57	9099.26	10.53	-0.08	10.53	12.00	488974.30	777933.99		
9200.00	24.06	359.57	9194.16	41.47	-0.31	41.47	12.00	489005.24	777933.76		
9300.00	36.06	359.57	9280.56	91.46	-0.69	91.46	12.00	489055.23	777933.38		
9400.00	48.06	359.57	9354.67	158.32	-1.19	158.32	12.00	489122.09	777932.88		
9500.00	60.06	359.57	9413.27	239.12	-1.80	239.13	12.00	489202.89	777932.27		
9600.00	72.06	359.57	9453.78	330.35	-2.49	330.36	12.00	489294.12	777931.58		
9700.00	84.06	359.57	9474.44	428.00	-3.23	428.01	12.00	489391.77	777930.84		
9749.54	90.00	359.57	9477.00	477.45	-3.60	477.47	12.00	489441.22	777930.47		LP
9800.00	90.00	359.57	9477.00	527.91	-3.98	527.92	0.00	489491.68	777930.09		
9900.00	90.00	359.57	9477.00	627.91	-4.73	627.92	0.00	489591.68	777929.34		
10000.00	90.00	359.57	9477.00	727.90	-5.49	727.92	0.00	489691.67	777928.58		
10100.00	90.00	359.57	9477.00	827.90	-6.24	827.92	0.00	489791.67	777927.83		
10200.00	90.00	359.57	9477.00	927.90	-7.00	927.92	0.00	489891.67	777927.07		
10300.00	90.00	359.57	9477.00	1027.90	-7.75	1027.92	0.00	489991.67	777926.32		
10400.00	90.00	359.57	9477.00	1127.89	-8.50	1127.92	0.00	490091.66	777925.57		
10500.00	90.00	359.57	9477.00	1227.89	-9.26	1227.92	0.00	490191.66	777924.81		
10600.00	90.00	359.57	9477.00	1327.89	-10.01	1327.92	0.00	490291.66	777924.06		
10700.00	90.00	359.57	9477.00	1427.88	-10.77	1427.92	0.00	490391.65	777923.30		
10800.00	90.00	359.57	9477.00	1527.88	-11.52	1527.92	0.00	490491.65	777922.55		
10900.00	90.00	359.57	9477.00	1627.88	-12.27	1627.92	0.00	490591.65	777921.80		
11000.00	90.00	359.57	9477.00	1727.88	-13.03	1727.92	0.00	490691.65	777921.04		
11100.00	90.00	359.57	9477.00	1827.87	-13.78	1827.92	0.00	490791.64	777920.29		
11200.00	90.00	359.57	9477.00	1927.87	-14.54	1927.92	0.00	490891.64	777919.53		
11300.00	90.00	359.57	9477.00	2027.87	-15.29	2027.92	0.00	490991.64	777918.78		
11400.00	90.00	359.57	9477.00	2127.86	-16.04	2127.92	0.00	491091.63	777918.03		
11500.00	90.00	359.57	9477.00	2227.86	-16.80	2227.92	0.00	491191.63	777917.27		
11600.00	90.00	359.57	9477.00	2327.86	-17.55	2327.92	0.00	491291.63	777916.52		
11700.00	90.00	359.57	9477.00	2427.86	-18.31	2427.92	0.00	491391.63	777915.76		
11800.00	90.00	359.57	9477.00	2527.85	-19.06	2527.92	0.00	491491.62	777915.01		
11900.00	90.00	359.57	9477.00	2627.85	-19.81	2627.92	0.00	491591.62	777914.26		
12000.00	90.00	359.57	9477.00	2727.85	-20.57	2727.92	0.00	491691.62	777913.50		
12100.00	90.00	359.57	9477.00	2827.84	-21.32	2827.92	0.00	491791.61	777912.75		
12200.00	90.00	359.57	9477.00	2927.84	-22.08	2927.92	0.00	491891.61	777911.99		
12300.00	90.00	359.57	9477.00	3027.84	-22.83	3027.92	0.00	491991.61	777911.24		
12400.00	90.00	359.57	9477.00	3127.84	-23.58	3127.92	0.00	492091.61	777910.49		
12500.00	90.00	359.57	9477.00	3227.83	-24.34	3227.92	0.00	492191.60	777909.73		
12600.00	90.00	359.57	9477.00	3327.83	-25.09	3327.92	0.00	492291.60	777908.98		
12700.00	90.00	359.57	9477.00	3427.83	-25.85	3427.92	0.00	492391.60	777908.22		
12800.00	90.00	359.57	9477.00	3527.82	-26.60	3527.92	0.00	492491.59	777907.47		
12900.00	90.00	359.57	9477.00	3627.82	-27.36	3627.92	0.00	492591.59	777906.71		
13000.00	90.00	359.57	9477.00	3727.82	-28.11	3727.92	0.00	492691.59	777905.96		
13100.00	90.00	359.57	9477.00	3827.82	-28.86	3827.92	0.00	492791.59	777905.21		
13200.00	90.00	359.57	9477.00	3927.81	-29.62	3927.92	0.00	492891.58	777904.45		
13300.00	90.00	359.57	9477.00	4027.81	-30.37	4027.92	0.00	492991.58	777903.70		
13400.00	90.00	359.57	9477.00	4127.81	-31.13	4127.92	0.00	493091.58	777902.94		
13500.00	90.00	359.57	9477.00	4227.80	-31.88	4227.92	0.00	493191.57	777902.19		
13600.00	90.00	359.57	9477.00	4327.80	-32.63	4327.92	0.00	493291.57	777901.44		
13700.00	90.00	359.57	9477.00	4427.80	-33.39	4427.92	0.00	493391.57	777900.68		

5D Plan Report

Interpolated Points: (Relative to Slot centre)(TVD relative to Kelly Bushing)										
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (%/100US ft)	Northing (US ft)	Easting (US ft)	Comment
13800.00	90.00	359.57	9477.00	4527.80	-34.14	4527.92	0.00	493491.57	777899.93	
13890.04	90.00	359.57	9477.00	4617.83	-34.82	4617.96	0.00	493581.60	777899.25	PBHL 2H



Weatherford

Weatherford Drilling Services

GeoDec4 v2.1.0.0

Report Date: July 16, 2015
Job Number: _____
Customer: Devon Energy
Well Name: North Thistle 34 State Com 2H
API Number: _____
Rig Name: _____
Location: Lea Co, NM Nad83 NME
Block: _____
Engineer: RWJ

NAD83 / New Mexico East (ftUS)	NAD83 (1986)
Projected Coordinate System	Geodetic Coordinate System
Datum: North American Datum 1983 (1986)	Datum: North American Datum 1983 (1986)
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
EPSG: 2257	EPSG: 4269
North: 488963.77 US Survey Foot	Latitude: 32.341906 Degree
East: 777934.07 US Survey Foot	Longitude: -103.567243 Degree
Convergence: 0.41°	
Declination: 7.23°	
Total Correction: 6.82°	
Datum Transformation: none	

Geodetic Location WGS84

MSL Elevation = 0 m
Latitude = 32° 20' 30.86" N
Longitude = 103° 34' 02.07" W

Magnetic Declination = 7.23 deg	[True North Offset]
Local Gravity = .9988 g	Checksum = 6601
Local Field Strength = 48283 nT	Magnetic Vector X = 23769 nT
Magnetic Dip = 60.25 deg	Magnetic Vector Y = 3015 nT
Magnetic Model = bggm2015.dat	Magnetic Vector Z = 41919 nT
Run Date = October 15, 2015	Magnetic Vector H = 23960 nT

Signed: _____ Date: _____

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