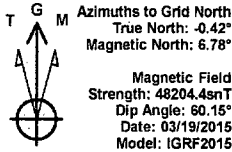




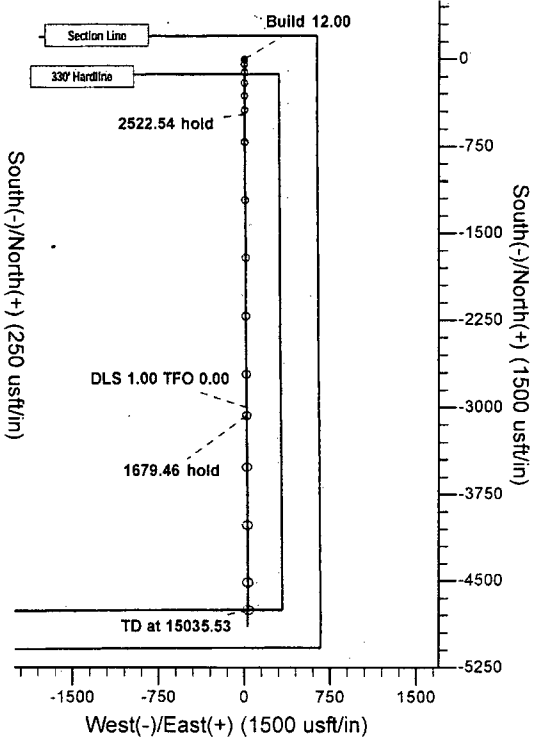
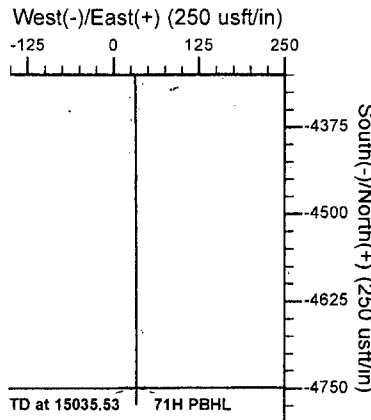
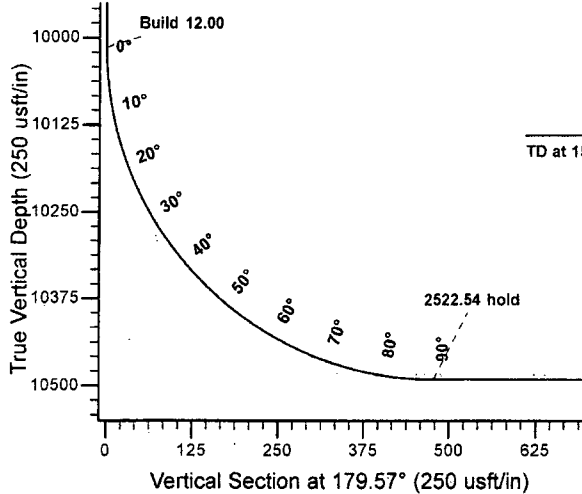
Project: Lea Co., NM
 Site: Sec. 27-T23S-R33E
 Well: Thistle Unit 71H
 Wellbore: Wellbore #1
 Design: Design #1
 Lat: 32° 16' 58.568 N
 Long: 103° 33' 13.373 W
 GL: 3681.00
 KB: GL+25'KB @ 3706.00usft



Precision
 Directional Services



CASING DETAILS:
 No casing data is available

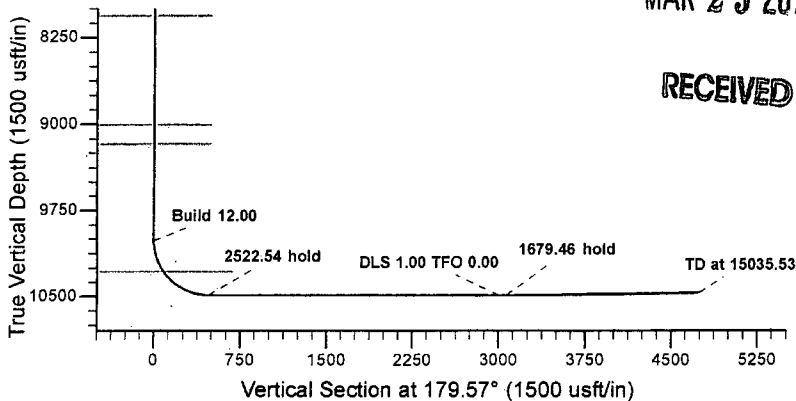


BS OCD

MAR 25 2015

RECEIVED

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1376.00	1376.00	Rustler
1643.00	1643.00	Top of Salt
4993.00	4993.00	Base of Salt
5256.00	5256.00	Delaware
6238.00	6238.00	Cherry Canyon
8061.00	8061.00	Brushy Canyon
9006.00	9006.00	Lower Brushy
9171.00	9171.00	1st BSPG Lime
10286.00	10303.50	1st BSPG Sand



LEGEND

Design #1

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
71H PBHL	10470.06	-4749.20	35.30	32° 16' 9.572 N	103° 33' 13.363 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10013.54	0.00	0.00	10013.54	0.00	0.00	0.00	0.00	0.00	Build 12.00
10763.54	90.00	179.57	10491.00	-477.45	3.55	12.00	179.57	477.46	2522.54 hold
13286.08	90.00	179.57	10491.00	-2999.92	22.30	0.00	0.00	3000.00	DLS 1.00 TFO 0.00
13356.08	90.70	179.57	10490.58	-3069.91	22.82	1.00	0.00	3070.00	1679.46 hold
15035.53	90.70	179.57	10470.06	-4749.20	35.30	0.00	0.00	4749.33	TD at 15035.53

MAR 26 2015



Precision
Directional Services

Devon Energy

Lea Co., NM

Sec.27-T23S-R33E

Thistle Unit 71H

Wellbore #1

Plan: Design #1

Standard Planning Report

19 March, 2015


devon

Database:	EDM	Local Co-ordinate Reference:	Well Thistle Unit 71H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3708.00usft
Project:	Lea Co., NM	MD Reference:	GL+25'KB @ 3708.00usft
Site:	Sec.27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project:	Lea Co., NM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:		Sec. 27-T23S-R33E			
Site Position:		Northing:	467,338.20 usft	Latitude:	32° 16' 56.568 N
From:	Map	Easting:	782,269.60 usft	Longitude:	103° 33' 13.373 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.42

Well	Thistle Unit 71H					
Well Position	+N/-S	0.00 usft	Northing:	467,338.20 usft	Latitude:	32° 16' 56.568 N
	+E/-W	0.00 usft	Easting:	782,269.60 usft	Longitude:	103° 33' 13.373 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,681.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/19/15	7.19	60.15	48,204

Design:	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.57

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,013.54	0.00	0.00	10,013.54	0.00	0.00	0.00	0.00	0.00	0.00	
10,763.54	90.00	179.57	10,491.01	-477.45	3.55	12.00	12.00	0.00	179.57	71H PBHL
13,286.08	90.00	179.57	10,491.01	-2,999.92	22.30	0.00	0.00	0.00	0.00	
13,356.08	90.70	179.57	10,490.58	-3,069.91	22.82	1.00	1.00	0.00	0.00	71H PBHL
15,035.53	90.70	179.57	10,470.06	-4,749.20	35.30	0.00	0.00	0.00	0.00	71H PBHL

Database:	EDM	Local Co-ordinate Reference:	Well Thistle Unit 71H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3706.00usft
Project:	Lea Co. NM	MD Reference:	GL+25'KB @ 3706.00usft
Site:	Sec.27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well Thistle Unit 71H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3706.00usft
Project:	Lea Co., NM	MD Reference:	GL+25'KB @ 3706.00usft
Site:	Sec 27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,013.54	0.00	0.00	10,013.54	0.00	0.00	0.00	0.00	0.00	0.00
Build 12.00									
10,025.00	1.38	179.57	10,025.00	-0.14	0.00	0.14	12.00	12.00	0.00
10,050.00	4.38	179.57	10,049.96	-1.39	0.01	1.39	12.00	12.00	0.00
10,075.00	7.38	179.57	10,074.83	-3.95	0.03	3.95	12.00	12.00	0.00
10,100.00	10.38	179.57	10,099.53	-7.81	0.06	7.81	12.00	12.00	0.00

Database:	EDM	Local Co-ordinate Reference:	Well Thistle Unit 71H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3706.00usft
Project:	Lea Co., NM	MD Reference:	GL+25'KB @ 3706.00usft
Site:	Sec.27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,125.00	13.38	179.57	10,123.99	-12.95	0.10	12.95	12.00	12.00	0.00	
10,150.00	16.38	179.57	10,148.15	-19.37	0.14	19.37	12.00	12.00	0.00	
10,175.00	19.38	179.57	10,171.94	-27.04	0.20	27.04	12.00	12.00	0.00	
10,200.00	22.38	179.57	10,195.30	-35.95	0.27	35.95	12.00	12.00	0.00	
10,225.00	25.38	179.57	10,218.15	-46.06	0.34	46.07	12.00	12.00	0.00	
10,250.00	28.38	179.57	10,240.45	-57.36	0.43	57.37	12.00	12.00	0.00	
10,275.00	31.38	179.57	10,262.13	-69.81	0.52	69.82	12.00	12.00	0.00	
10,300.00	34.38	179.57	10,283.12	-83.38	0.62	83.39	12.00	12.00	0.00	
10,325.00	37.38	179.57	10,303.38	-98.03	0.73	98.03	12.00	12.00	0.00	
10,350.00	40.38	179.57	10,322.84	-113.72	0.85	113.72	12.00	12.00	0.00	
10,375.00	43.38	179.57	10,341.45	-130.41	0.97	130.41	12.00	12.00	0.00	
10,400.00	46.38	179.57	10,359.16	-148.04	1.10	148.05	12.00	12.00	0.00	
10,425.00	49.38	179.57	10,375.93	-166.58	1.24	166.59	12.00	12.00	0.00	
10,450.00	52.38	179.57	10,391.70	-185.97	1.38	185.98	12.00	12.00	0.00	
10,475.00	55.38	179.57	10,406.44	-206.16	1.53	206.17	12.00	12.00	0.00	
10,500.00	58.38	179.57	10,420.10	-227.10	1.69	227.10	12.00	12.00	0.00	
10,525.00	61.38	179.57	10,432.65	-248.72	1.85	248.72	12.00	12.00	0.00	
10,550.00	64.38	179.57	10,444.04	-270.97	2.01	270.97	12.00	12.00	0.00	
10,575.00	67.38	179.57	10,454.26	-293.78	2.18	293.79	12.00	12.00	0.00	
10,600.00	70.38	179.57	10,463.27	-317.10	2.36	317.10	12.00	12.00	0.00	
10,625.00	73.38	179.57	10,471.05	-340.85	2.53	340.86	12.00	12.00	0.00	
10,650.00	76.38	179.57	10,477.57	-364.98	2.71	364.99	12.00	12.00	0.00	
10,675.00	79.38	179.57	10,482.82	-389.42	2.89	389.43	12.00	12.00	0.00	
10,700.00	82.38	179.57	10,486.78	-414.10	3.08	414.11	12.00	12.00	0.00	
10,725.00	85.38	179.57	10,489.45	-438.95	3.26	438.97	12.00	12.00	0.00	
10,750.00	88.38	179.57	10,490.81	-463.91	3.45	463.93	12.00	12.00	0.00	
10,763.54	90.00	179.57	10,491.01	-477.45	3.55	477.46	12.00	12.00	0.00	
2922.54 hold										
10,800.00	90.00	179.57	10,491.01	-513.91	3.82	513.92	0.00	0.00	0.00	
10,900.00	90.00	179.57	10,491.01	-613.91	4.56	613.92	0.00	0.00	0.00	
11,000.00	90.00	179.57	10,491.01	-713.91	5.31	713.92	0.00	0.00	0.00	
11,100.00	90.00	179.57	10,491.01	-813.90	6.05	813.92	0.00	0.00	0.00	
11,200.00	90.00	179.57	10,491.01	-913.90	6.79	913.92	0.00	0.00	0.00	
11,300.00	90.00	179.57	10,491.01	-1,013.90	7.54	1,013.92	0.00	0.00	0.00	
11,400.00	90.00	179.57	10,491.01	-1,113.89	8.28	1,113.92	0.00	0.00	0.00	
11,500.00	90.00	179.57	10,491.01	-1,213.89	9.02	1,213.92	0.00	0.00	0.00	
11,600.00	90.00	179.57	10,491.01	-1,313.89	9.77	1,313.92	0.00	0.00	0.00	
11,700.00	90.00	179.57	10,491.01	-1,413.89	10.51	1,413.92	0.00	0.00	0.00	
11,800.00	90.00	179.57	10,491.01	-1,513.88	11.25	1,513.92	0.00	0.00	0.00	
11,900.00	90.00	179.57	10,491.01	-1,613.88	12.00	1,613.92	0.00	0.00	0.00	
12,000.00	90.00	179.57	10,491.01	-1,713.88	12.74	1,713.92	0.00	0.00	0.00	
12,100.00	90.00	179.57	10,491.01	-1,813.87	13.48	1,813.92	0.00	0.00	0.00	
12,200.00	90.00	179.57	10,491.01	-1,913.87	14.23	1,913.92	0.00	0.00	0.00	
12,300.00	90.00	179.57	10,491.01	-2,013.87	14.97	2,013.92	0.00	0.00	0.00	
12,400.00	90.00	179.57	10,491.01	-2,113.87	15.71	2,113.92	0.00	0.00	0.00	
12,500.00	90.00	179.57	10,491.01	-2,213.86	16.46	2,213.92	0.00	0.00	0.00	
12,600.00	90.00	179.57	10,491.01	-2,313.86	17.20	2,313.92	0.00	0.00	0.00	
12,700.00	90.00	179.57	10,491.01	-2,413.86	17.94	2,413.92	0.00	0.00	0.00	
12,800.00	90.00	179.57	10,491.01	-2,513.86	18.69	2,513.92	0.00	0.00	0.00	
12,900.00	90.00	179.57	10,491.01	-2,613.85	19.43	2,613.92	0.00	0.00	0.00	
13,000.00	90.00	179.57	10,491.01	-2,713.85	20.17	2,713.92	0.00	0.00	0.00	
13,100.00	90.00	179.57	10,491.01	-2,813.85	20.91	2,813.92	0.00	0.00	0.00	
13,200.00	90.00	179.57	10,491.01	-2,913.84	21.66	2,913.92	0.00	0.00	0.00	
13,286.08	90.00	179.57	10,491.01	-2,999.92	22.30	3,000.00	0.00	0.00	0.00	

Database:	EDM	Local Co-ordinate Reference:	Well Thistle Unit 71H
Company:	Devon Energy	TVD Reference:	GL+25'KB @ 3706.00usft
Project:	Lea Co., NM	MD Reference:	GL+25'KB @ 3706.00usft
Site:	Sec.27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
DLS 1.00 TFO 0.00										
13,300.00	90.14	179.57	10,490.99	-3,013.84	22.40	3,013.92	1.00	1.00	0.00	
13,356.08	90.70	179.57	10,490.58	-3,069.91	22.82	3,070.00	1.00	1.00	0.00	
1679.46 hold										
13,400.00	90.70	179.57	10,490.04	-3,113.83	23.14	3,113.92	0.00	0.00	0.00	
13,500.00	90.70	179.57	10,488.82	-3,213.82	23.89	3,213.91	0.00	0.00	0.00	
13,600.00	90.70	179.57	10,487.60	-3,313.81	24.63	3,313.90	0.00	0.00	0.00	
13,700.00	90.70	179.57	10,486.38	-3,413.80	25.37	3,413.90	0.00	0.00	0.00	
13,800.00	90.70	179.57	10,485.15	-3,513.79	26.12	3,513.89	0.00	0.00	0.00	
13,900.00	90.70	179.57	10,483.93	-3,613.78	26.86	3,613.88	0.00	0.00	0.00	
14,000.00	90.70	179.57	10,482.71	-3,713.77	27.60	3,713.88	0.00	0.00	0.00	
14,100.00	90.70	179.57	10,481.49	-3,813.76	28.35	3,813.87	0.00	0.00	0.00	
14,200.00	90.70	179.57	10,480.27	-3,913.75	29.09	3,913.86	0.00	0.00	0.00	
14,300.00	90.70	179.57	10,479.05	-4,013.74	29.83	4,013.85	0.00	0.00	0.00	
14,400.00	90.70	179.57	10,477.82	-4,113.73	30.58	4,113.85	0.00	0.00	0.00	
14,500.00	90.70	179.57	10,476.60	-4,213.72	31.32	4,213.84	0.00	0.00	0.00	
14,600.00	90.70	179.57	10,475.38	-4,313.71	32.06	4,313.83	0.00	0.00	0.00	
14,700.00	90.70	179.57	10,474.16	-4,413.70	32.81	4,413.82	0.00	0.00	0.00	
14,800.00	90.70	179.57	10,472.94	-4,513.69	33.55	4,513.82	0.00	0.00	0.00	
14,900.00	90.70	179.57	10,471.72	-4,613.68	34.29	4,613.81	0.00	0.00	0.00	
15,000.00	90.70	179.57	10,470.49	-4,713.67	35.04	4,713.80	0.00	0.00	0.00	
15,035.53	90.70	179.57	10,470.06	-4,749.20	35.30	4,749.33	0.00	0.00	0.00	
TD at 15035.53										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
71H PBHL	- plan hits target center - Point	0.00	0.01	10,470.06	-4,749.20	35.30	462,589.00	782,304.90	32° 16' 9.572 N	103° 33' 13.363 W

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,376.00	1,376.00	Rustler		0.00		
1,643.00	1,643.00	Top of Salt		0.00		
4,993.00	4,993.00	Base of Salt		0.00		
5,256.00	5,256.00	Delaware		0.00		
6,236.00	6,236.00	Cherry Canyon		0.00		
8,061.00	8,061.00	Brushy Canyon		0.00		
9,006.00	9,006.00	Lower Brushy		0.00		
9,171.00	9,171.00	1st BSPG Lime		0.00		
10,303.50	10,286.00	1st BSPG Sand		0.00		

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Site:	Sec.27-T23S-R33E	North Reference:	Grid
Well:	Thistle Unit 71H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N-S (usft)	E-W (usft)	
10,013.54	10,013.54	0.00	0.00	Build 12.00
10,763.54	10,491.01	-477.45	3.55	2522.54 hold
13,286.08	10,491.01	-2,999.92	22.30	DLS 1.00 TFO 0.00
13,356.08	10,490.58	-3,069.91	22.82	1679.46 hold
15,035.53	10,470.06	-4,749.20	35.30	TD at 15035.53