

Chevron

Lea County NM (NAD27 NME)

Medlin Widow 15-24-34

#1H

WB1

Plan: Plan #1 07-25-14

Standard Planning Report

25 July, 2014

SEP 1 2 2014

Phoenix Technology Services
Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well #1H
Company:	Chevron	TVD Reference:	KB @ 3542.50usft (Ensign 153)
Project:	Lea County NM (NAD27 NME)	MD Reference:	KB @ 3542.50usft (Ensign 153)
Site:	Medlin Widow 15-24-34	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

Project	Lea County NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Medlin Widow 15-24-34		
Site Position:		Northing:	446,219.00 usft
From:	Map	Easting:	770,027.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 25.52468 N
		Longitude:	103° 27' 36.53585 W
		Grid Convergence:	0.47 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing: 446,219.00 usft
	+E/-W	0.00 usft	Easting: 770,027.70 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 13' 25.52468 N
			Longitude: 103° 27' 36.53585 W
			Ground Level: 3,518.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	06/24/14	7.16
			Dip Angle
			(°)
			60.13
			Field Strength
			(nT)
			48,325

Design	Plan #1 07-25-14		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			177.09

Plan Sections:										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,700.54	0.00	0.00	10,700.54	0.00	0.00	0.00	0.00	0.00	0.00	
11,450.54	90.00	177.09	11,178.00	-476.85	24.23	12.00	12.00	0.00	177.09	
15,641.88	90.00	177.09	11,178.00	-4,662.80	236.90	0.00	0.00	0.00	0.00	PBHL-MW 15-24-34 #

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Project:	Lea County NM (NAD27 NME)	MD Reference:	KB @ 3542.50usft (Ensign 153)
Site:	Medlin Widow 15-24-34	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

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
10,700.54	0.00	0.00	10,700.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12°/100' Build									
10,800.00	11.94	177.09	10,799.28	-10.31	0.52	10.32	12.00	12.00	0.00
10,900.00	23.94	177.09	10,894.25	-41.01	2.08	41.06	12.00	12.00	0.00
11,000.00	35.94	177.09	10,980.75	-90.76	4.61	90.87	12.00	12.00	0.00
11,100.00	47.94	177.09	11,055.00	-157.38	8.00	157.58	12.00	12.00	0.00
11,200.00	59.94	177.09	11,113.76	-237.96	12.09	238.27	12.00	12.00	0.00
11,300.00	71.94	177.09	11,154.47	-328.99	16.71	329.41	12.00	12.00	0.00
11,400.00	83.94	177.09	11,175.33	-426.47	21.67	427.02	12.00	12.00	0.00
11,450.54	90.00	177.09	11,178.00	-476.85	24.23	477.46	12.00	12.00	0.00
LP, Hold 90° Inc, 177.09° Azm - TL 11178' TVD @ 0' VS w/90° Inc									
11,500.00	90.00	177.09	11,178.00	-526.25	26.74	526.93	0.00	0.00	0.00
11,600.00	90.00	177.09	11,178.00	-626.12	31.81	626.93	0.00	0.00	0.00
11,700.00	90.00	177.09	11,178.00	-725.99	36.89	726.93	0.00	0.00	0.00
11,800.00	90.00	177.09	11,178.00	-825.86	41.96	826.93	0.00	0.00	0.00
11,900.00	90.00	177.09	11,178.00	-925.74	47.03	926.93	0.00	0.00	0.00
12,000.00	90.00	177.09	11,178.00	-1,025.61	52.11	1,026.93	0.00	0.00	0.00
12,100.00	90.00	177.09	11,178.00	-1,125.48	57.18	1,126.93	0.00	0.00	0.00
12,200.00	90.00	177.09	11,178.00	-1,225.35	62.26	1,226.93	0.00	0.00	0.00
12,300.00	90.00	177.09	11,178.00	-1,325.22	67.33	1,326.93	0.00	0.00	0.00
12,400.00	90.00	177.09	11,178.00	-1,425.09	72.40	1,426.93	0.00	0.00	0.00
12,500.00	90.00	177.09	11,178.00	-1,524.96	77.48	1,526.93	0.00	0.00	0.00
12,600.00	90.00	177.09	11,178.00	-1,624.83	82.55	1,626.93	0.00	0.00	0.00
12,700.00	90.00	177.09	11,178.00	-1,724.71	87.63	1,726.93	0.00	0.00	0.00
12,800.00	90.00	177.09	11,178.00	-1,824.58	92.70	1,826.93	0.00	0.00	0.00
12,900.00	90.00	177.09	11,178.00	-1,924.45	97.77	1,926.93	0.00	0.00	0.00
13,000.00	90.00	177.09	11,178.00	-2,024.32	102.85	2,026.93	0.00	0.00	0.00
13,100.00	90.00	177.09	11,178.00	-2,124.19	107.92	2,126.93	0.00	0.00	0.00
13,200.00	90.00	177.09	11,178.00	-2,224.06	113.00	2,226.93	0.00	0.00	0.00
13,300.00	90.00	177.09	11,178.00	-2,323.93	118.07	2,326.93	0.00	0.00	0.00
13,400.00	90.00	177.09	11,178.00	-2,423.80	123.14	2,426.93	0.00	0.00	0.00
13,500.00	90.00	177.09	11,178.00	-2,523.67	128.22	2,526.93	0.00	0.00	0.00
13,600.00	90.00	177.09	11,178.00	-2,623.55	133.29	2,626.93	0.00	0.00	0.00
13,700.00	90.00	177.09	11,178.00	-2,723.42	138.37	2,726.93	0.00	0.00	0.00
13,800.00	90.00	177.09	11,178.00	-2,823.29	143.44	2,826.93	0.00	0.00	0.00
13,900.00	90.00	177.09	11,178.00	-2,923.16	148.52	2,926.93	0.00	0.00	0.00
14,000.00	90.00	177.09	11,178.00	-3,023.03	153.59	3,026.93	0.00	0.00	0.00
14,100.00	90.00	177.09	11,178.00	-3,122.90	158.66	3,126.93	0.00	0.00	0.00
14,200.00	90.00	177.09	11,178.00	-3,222.77	163.74	3,226.93	0.00	0.00	0.00
14,300.00	90.00	177.09	11,178.00	-3,322.64	168.81	3,326.93	0.00	0.00	0.00
14,400.00	90.00	177.09	11,178.00	-3,422.52	173.89	3,426.93	0.00	0.00	0.00
14,500.00	90.00	177.09	11,178.00	-3,522.39	178.96	3,526.93	0.00	0.00	0.00
14,600.00	90.00	177.09	11,178.00	-3,622.26	184.03	3,626.93	0.00	0.00	0.00
14,700.00	90.00	177.09	11,178.00	-3,722.13	189.11	3,726.93	0.00	0.00	0.00
14,800.00	90.00	177.09	11,178.00	-3,822.00	194.18	3,826.93	0.00	0.00	0.00
14,900.00	90.00	177.09	11,178.00	-3,921.87	199.26	3,926.93	0.00	0.00	0.00
15,000.00	90.00	177.09	11,178.00	-4,021.74	204.33	4,026.93	0.00	0.00	0.00
15,100.00	90.00	177.09	11,178.00	-4,121.61	209.40	4,126.93	0.00	0.00	0.00
15,200.00	90.00	177.09	11,178.00	-4,221.48	214.48	4,226.93	0.00	0.00	0.00
15,300.00	90.00	177.09	11,178.00	-4,321.36	219.55	4,326.93	0.00	0.00	0.00
15,400.00	90.00	177.09	11,178.00	-4,421.23	224.63	4,426.93	0.00	0.00	0.00
15,500.00	90.00	177.09	11,178.00	-4,521.10	229.70	4,526.93	0.00	0.00	0.00
15,600.00	90.00	177.09	11,178.00	-4,620.97	234.77	4,626.93	0.00	0.00	0.00

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Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Plan #1 07-25-14		

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)
15,641.88	90.00	177.09	11,178.00	-4,662.80	236.90	4,668.81	0.00	0.00	0.00
TD at 15641.88' MD - PBHL-MW 15-24-34 #1H									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-MW 15-24-34 #1H	0.00	0.01	11,178.00	-4,662.80	236.90	441,556.20	770,264.60	32° 12' 39.36610 N	103° 27' 34.21965 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
11,450.54	11,178.00	TL 11178' TVD @ 0° VS w/90° Inc		0.00	177.09	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
10,700.54	10,700.54	0.00	0.00	KOP, 12°/100' Build
11,450.54	11,178.00	-476.85	24.23	LP, Hold 90° Inc, 177.09° Azm
15,641.88	11,178.00	-4,662.80	236.90	TD at 15641.88' MD