

SEP 12 2014

Chevron

Lea County NM (NAD27 NME)

Medlin Widow 15-24-34

#7H

WB1

Plan: Plan #1 07-25-14

Standard Planning Report

25 July, 2014

Phoenix Technology Services

Planning Report

Database:	GCR DB	Local Co-ordinate Reference:	Well #7H
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:	#7H	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	#7H		
Well Position	+N/-S	15.00 usft	Northing:
	+E/-W	2,523.30 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 13' 25.46924 N
		Longitude:	103° 27' 7.16298 W
		Ground Level:	3,518.00 usft

Wellbore	WB1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010_14	06/24/14	7.16
			Dip Angle
			(°)
			Field Strength
			(nT)
			60.13
			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
			(°)
			175.58

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	
10,736.54	0.00	0.00	10,736.54	0.00	0.00	0.00	0.00	0.00	0.00	
11,486.54	90.00	175.58	11,214.00	-476.05	36.76	12.00	12.00	0.00	175.58	
15,684.95	90.00	175.58	11,214.00	-4,662.00	360.00	0.00	0.00	0.00	0.00	PBHL-MW 15-24-34 #

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Well:	#7H	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
10,736.54	0.00	0.00	10,736.54	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 12°/100' Build									
10,800.00	7.62	175.58	10,799.81	-4.20	0.32	4.21	12.00	12.00	0.00
10,900.00	19.62	175.58	10,896.83	-27.63	2.13	27.71	12.00	12.00	0.00
11,000.00	31.62	175.58	10,986.83	-70.65	5.46	70.86	12.00	12.00	0.00
11,100.00	43.62	175.58	11,065.90	-131.40	10.15	131.79	12.00	12.00	0.00
11,200.00	55.62	175.58	11,130.57	-207.20	16.00	207.82	12.00	12.00	0.00
11,300.00	67.62	175.58	11,178.02	-294.76	22.76	295.64	12.00	12.00	0.00
11,400.00	79.62	175.58	11,206.18	-390.24	30.13	391.40	12.00	12.00	0.00
11,486.54	90.00	175.58	11,214.00	-476.05	36.76	477.46	12.00	12.00	0.00
LP, Hold 90° Inc, 175.58° Azm - TL 11214' TVD @ 0° VS w/90° Inc									
11,500.00	90.00	175.58	11,214.00	-489.47	37.80	490.93	0.00	0.00	0.00
11,600.00	90.00	175.58	11,214.00	-589.18	45.50	590.93	0.00	0.00	0.00
11,700.00	90.00	175.58	11,214.00	-688.88	53.20	690.93	0.00	0.00	0.00
11,800.00	90.00	175.58	11,214.00	-788.58	60.89	790.93	0.00	0.00	0.00
11,900.00	90.00	175.58	11,214.00	-888.29	68.59	890.93	0.00	0.00	0.00
12,000.00	90.00	175.58	11,214.00	-987.99	76.29	990.93	0.00	0.00	0.00
12,100.00	90.00	175.58	11,214.00	-1,087.69	83.99	1,090.93	0.00	0.00	0.00
12,200.00	90.00	175.58	11,214.00	-1,187.39	91.69	1,190.93	0.00	0.00	0.00
12,300.00	90.00	175.58	11,214.00	-1,287.10	99.39	1,290.93	0.00	0.00	0.00
12,400.00	90.00	175.58	11,214.00	-1,386.80	107.09	1,390.93	0.00	0.00	0.00
12,500.00	90.00	175.58	11,214.00	-1,486.50	114.79	1,490.93	0.00	0.00	0.00
12,600.00	90.00	175.58	11,214.00	-1,586.21	122.49	1,590.93	0.00	0.00	0.00
12,700.00	90.00	175.58	11,214.00	-1,685.91	130.19	1,690.93	0.00	0.00	0.00
12,800.00	90.00	175.58	11,214.00	-1,785.61	137.89	1,790.93	0.00	0.00	0.00
12,900.00	90.00	175.58	11,214.00	-1,885.32	145.58	1,890.93	0.00	0.00	0.00
13,000.00	90.00	175.58	11,214.00	-1,985.02	153.28	1,990.93	0.00	0.00	0.00
13,100.00	90.00	175.58	11,214.00	-2,084.72	160.98	2,090.93	0.00	0.00	0.00
13,200.00	90.00	175.58	11,214.00	-2,184.43	168.68	2,190.93	0.00	0.00	0.00
13,300.00	90.00	175.58	11,214.00	-2,284.13	176.38	2,290.93	0.00	0.00	0.00
13,400.00	90.00	175.58	11,214.00	-2,383.83	184.08	2,390.93	0.00	0.00	0.00
13,500.00	90.00	175.58	11,214.00	-2,483.54	191.78	2,490.93	0.00	0.00	0.00
13,600.00	90.00	175.58	11,214.00	-2,583.24	199.48	2,590.93	0.00	0.00	0.00
13,700.00	90.00	175.58	11,214.00	-2,682.94	207.18	2,690.93	0.00	0.00	0.00
13,800.00	90.00	175.58	11,214.00	-2,782.65	214.88	2,790.93	0.00	0.00	0.00
13,900.00	90.00	175.58	11,214.00	-2,882.35	222.58	2,890.93	0.00	0.00	0.00
14,000.00	90.00	175.58	11,214.00	-2,982.05	230.27	2,990.93	0.00	0.00	0.00
14,100.00	90.00	175.58	11,214.00	-3,081.76	237.97	3,090.93	0.00	0.00	0.00
14,200.00	90.00	175.58	11,214.00	-3,181.46	245.67	3,190.93	0.00	0.00	0.00
14,300.00	90.00	175.58	11,214.00	-3,281.16	253.37	3,290.93	0.00	0.00	0.00
14,400.00	90.00	175.58	11,214.00	-3,380.86	261.07	3,390.93	0.00	0.00	0.00
14,500.00	90.00	175.58	11,214.00	-3,480.57	268.77	3,490.93	0.00	0.00	0.00
14,600.00	90.00	175.58	11,214.00	-3,580.27	276.47	3,590.93	0.00	0.00	0.00
14,700.00	90.00	175.58	11,214.00	-3,679.97	284.17	3,690.93	0.00	0.00	0.00
14,800.00	90.00	175.58	11,214.00	-3,779.68	291.87	3,790.93	0.00	0.00	0.00
14,900.00	90.00	175.58	11,214.00	-3,879.38	299.57	3,890.93	0.00	0.00	0.00
15,000.00	90.00	175.58	11,214.00	-3,979.08	307.27	3,990.93	0.00	0.00	0.00
15,100.00	90.00	175.58	11,214.00	-4,078.79	314.96	4,090.93	0.00	0.00	0.00
15,200.00	90.00	175.58	11,214.00	-4,178.49	322.66	4,190.93	0.00	0.00	0.00
15,300.00	90.00	175.58	11,214.00	-4,278.19	330.36	4,290.93	0.00	0.00	0.00
15,400.00	90.00	175.58	11,214.00	-4,377.90	338.06	4,390.93	0.00	0.00	0.00
15,500.00	90.00	175.58	11,214.00	-4,477.60	345.76	4,490.93	0.00	0.00	0.00
15,600.00	90.00	175.58	11,214.00	-4,577.30	353.46	4,590.93	0.00	0.00	0.00

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Well:	#7H	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)
15,684.95	90.00	175.58	11,214.00	-4,662.00	360.00	4,675.88	0.00	0.00	0.00
TD at 15684.95' MD - PBHL-MW 15-24-34 #7H									

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 #7H	0.00	0.01	11,214.00	-4,662.00	360.00	441,572.00	772,911.00	32° 12' 39.30851 N	103° 27' 3.41814 W
- plan hits target center									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
11,486.54	11,214.00	TL 11214' TVD @ 0° VS w/90° Inc		0.00	175.58	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,736.54	10,736.54	0.00	0.00	KOP, 12°/100' Build
11,486.54	11,214.00	-476.05	36.76	LP, Hold 90° Inc, 175.58° Azm
15,684.95	11,214.00	-4,662.00	360.00	TD at 15684.95' MD