

MAR 17 2015



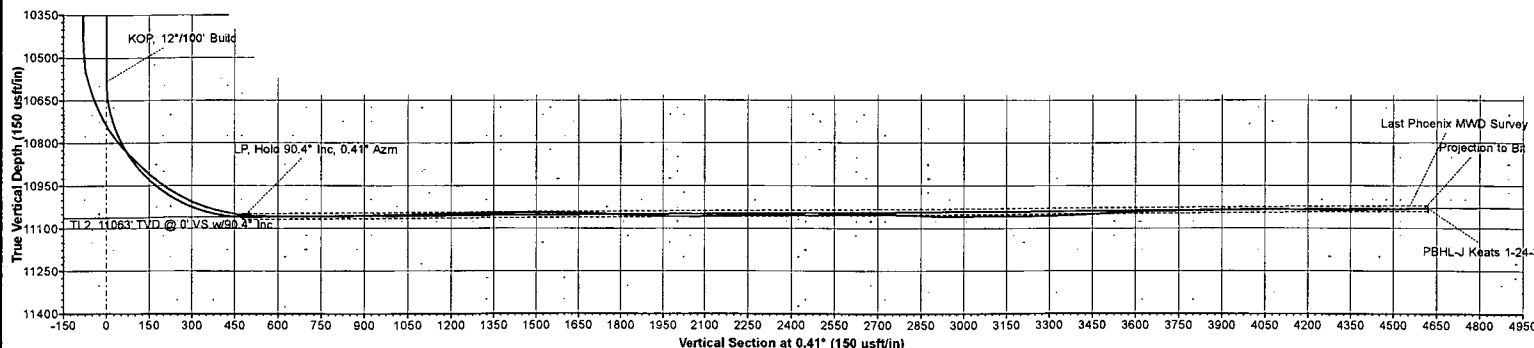
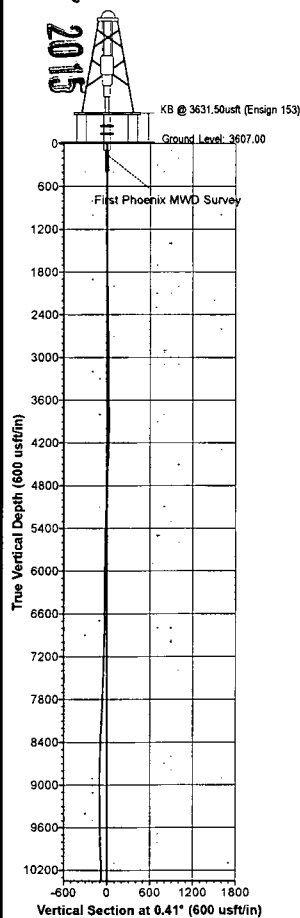
Project: Lea County NM (NAD27 NME)
 Site: J Keats 1-24-32
 Well: 40H
 Wellbore: WB1/Job #1310805
 Design: Plan #2 01-06-14
 Rig: Ensign 153



PHOENIX
 TECHNOLOGY SERVICES



Azimuths to Grid North
 True North: -0.38°
 Magnetic North: 6.91°
 Magnetic Field
 Strength: 48363.1nT
 Dip Angle: 60.13°
 Date: 01/06/2014
 Model: IGRF2010_14



WELL DETAILS									
	+N/-S	+E/-W	Northing	Ground Level	3607.00	Latitude	Longitude		
	0.00	0.00	451851.40	720368.30		32° 14' 24.88709 N	103° 37' 14.15637 W		

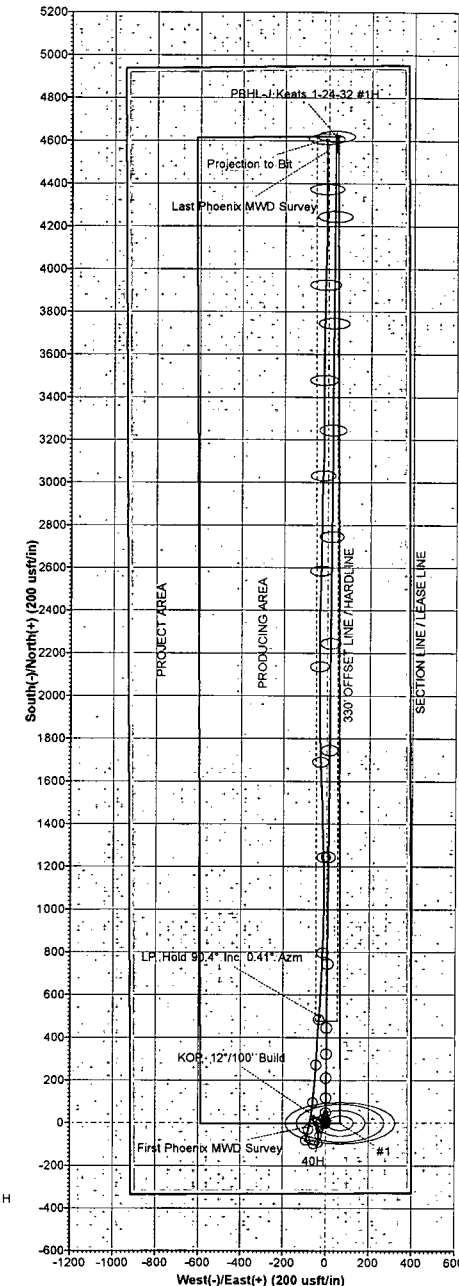
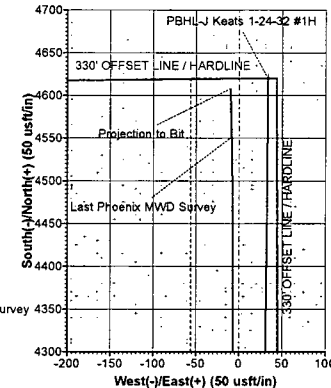
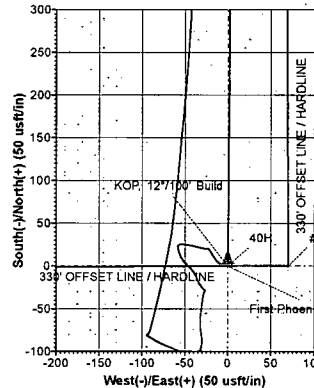
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	10582.20	0.00	0.00	10582.20	0.00	0.00	0.00	0.00	0.00		KOP, 12°/100' Build
3	11335.53	90.40	0.41	11059.65	480.79	3.47	12.00	0.41	480.80		LP, Hold 90.4° Inc, 0.41° Azm
4	15475.05	90.40	0.41	11030.75	4620.10	33.30	0.00	0.00	4620.22	PBHL-J Keats 1-24-32 #1H	TD at 15475.05

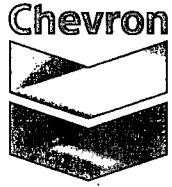
DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
PBHL-J Keats 1-24-32 #1H	11030.75	4620.10	33.30	456471.50	720401.60	32° 15' 10.60347 N	103° 37' 13.41152 W	Rectangle (Sides: L20.00 W100.00)	- plan hits target center

PROJECT DETAILS: Lea County NM (NAD27 NME)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

SITE DETAILS: J Keats 1-24-32
 Site Centre Northing: 451851.40
 Easting: 720368.30
 Positional Uncertainty: 0.00
 Convergence: 0.38
 Local North: Grid

LEGEND
 — #1, WB1, Inc Surveys V0
 — 40H, WB1/Job #1310805, Surveys (Ensign 153) V0
 — Plan #2 01-06-14





Chevron

Lea County NM (NAD27 NME)

J Keats 1-24-32

40H

WB1/Job #1310805

Survey: Phoenix MWD Survey

Phoenix Final Survey Report

05 February, 2014





Phoenix Technology Services

Phoenix Final Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 40H
Project:	Lea County NM (NAD27 NME)	TVD Reference:	KB @ 3631.50usft (Ensign 153)
Site:	J Keats 1-24-32	MD Reference:	KB @ 3631.50usft (Ensign 153)
Well:	40H	North Reference:	Grid
Wellbore:	WB1/Job #1310805	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 153)	Database:	GCR DB

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	J Keats 1-24-32		
Site Position:		Northing:	451,851.40 usft
From:	Map	Easting:	720,368.30 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 14' 24.88709 N
		Longitude:	103° 37' 14.15637 W
		Grid Convergence:	0.38 °

Well	40H		
Well Position	+N/-S	0.00 usft	Northing: 451,851.40 usft
	+E/-W	0.00 usft	Easting: 720,368.30 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 14' 24.88709 N
		Longitude:	103° 37' 14.15637 W
		Ground Level:	3,607.00 usft

Wellbore	WB1/Job #1310805				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	01/06/14	7.29	60.13	48,363

Design	Surveys (Ensign 153)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	0.41	

Survey Program	Date 02/05/14				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
152.00	15,485.00	Phoenix MWD Survey (WB1/Job #131080)	MWD	MWD - Standard	

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
152.00	0.40	112.10	152.00	-0.20	0.49	-0.20	0.26
First Phoenix MWD Survey							
301.00	0.40	122.80	301.00	-0.68	1.41	-0.67	0.05
485.00	0.70	302.40	484.99	-0.42	1.00	-0.42	0.60
665.00	0.70	292.60	664.98	0.59	-0.94	0.58	0.07
843.00	0.40	296.20	842.97	1.28	-2.50	1.26	0.17
1,021.00	0.90	268.60	1,020.96	1.52	-4.46	1.49	0.32
1,200.00	0.50	283.90	1,199.94	1.67	-6.62	1.63	0.24
1,244.00	0.70	272.80	1,243.94	1.73	-7.08	1.68	0.52
1,376.00	0.40	288.10	1,375.94	1.92	-8.32	1.86	0.25
1,555.00	0.50	311.50	1,554.93	2.63	-9.50	2.56	0.12



Phoenix Technology Services

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 Site: J Keats 1-24-32
 Well: 40H
 Wellbore: WB1/Job #1310805
 Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 40H
 TVD Reference: KB @ 3631.50usft (Ensign 153)
 MD Reference: KB @ 3631.50usft (Ensign 153)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR DB

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,735.00	0.80	312.30	1,734.92	3.99	-11.02	3.92	0.17
1,914.00	0.80	320.70	1,913.90	5.80	-12.73	5.71	0.07
2,093.00	1.00	323.30	2,092.88	8.02	-14.46	7.92	0.11
2,272.00	1.10	327.50	2,271.85	10.72	-16.31	10.61	0.07
2,451.00	1.40	325.90	2,450.81	13.98	-18.46	13.85	0.17
2,630.00	1.70	331.40	2,629.74	18.12	-20.96	17.97	0.19
2,809.00	1.00	267.90	2,808.70	20.40	-23.79	20.23	0.86
2,988.00	1.10	275.20	2,987.67	20.50	-27.06	20.30	0.09
3,167.00	1.10	281.70	3,166.64	21.00	-30.46	20.78	0.07
3,346.00	1.30	285.60	3,345.60	21.90	-34.10	21.65	0.12
3,525.00	1.60	281.80	3,524.54	22.95	-38.50	22.68	0.18
3,704.00	1.70	283.20	3,703.46	24.07	-43.53	23.76	0.06
3,883.00	2.00	276.20	3,882.37	25.01	-49.22	24.66	0.21
4,062.00	2.10	275.90	4,061.26	25.69	-55.59	25.29	0.06
4,241.00	1.60	174.70	4,240.20	23.54	-58.62	23.12	1.61
4,420.00	2.20	165.00	4,419.10	17.73	-57.50	17.32	0.38
4,599.00	2.90	156.40	4,597.92	10.26	-54.80	9.87	0.44
4,776.00	2.10	128.80	4,774.76	4.13	-50.48	3.76	0.80
4,874.00	2.20	132.90	4,872.69	1.72	-47.70	1.38	0.19
5,053.00	2.00	140.80	5,051.57	-3.04	-43.21	-3.35	0.20
5,232.00	2.00	146.70	5,230.46	-8.07	-39.52	-8.35	0.11
5,411.00	1.50	156.70	5,409.38	-12.83	-36.88	-13.10	0.33
5,590.00	1.30	160.10	5,588.32	-16.89	-35.26	-17.15	0.12
5,769.00	1.10	143.80	5,767.29	-20.19	-33.55	-20.43	0.22
5,948.00	1.10	147.30	5,946.25	-23.02	-31.61	-23.25	0.04
6,127.00	0.70	138.00	6,125.23	-25.28	-29.95	-25.49	0.24
6,307.00	0.60	133.80	6,305.22	-26.75	-28.53	-26.95	0.06
6,486.00	0.40	115.20	6,484.21	-27.66	-27.29	-27.86	0.14
6,665.00	0.60	184.00	6,663.21	-28.87	-26.79	-29.06	0.33
6,844.00	1.00	208.80	6,842.19	-31.17	-27.61	-31.37	0.29
7,023.00	1.60	190.20	7,021.14	-35.00	-28.81	-35.20	0.41
7,202.00	1.80	189.90	7,200.06	-40.23	-29.73	-40.44	0.11
7,381.00	2.20	182.10	7,378.96	-46.43	-30.34	-46.64	0.27
7,560.00	1.60	195.10	7,557.86	-52.28	-31.12	-52.50	0.41
7,738.00	2.20	183.50	7,735.76	-58.08	-31.97	-58.31	0.40
7,918.00	2.80	182.40	7,915.59	-65.93	-32.37	-66.16	0.33
8,097.00	2.20	171.40	8,094.42	-73.69	-32.04	-73.92	0.43
8,276.00	2.20	168.30	8,273.28	-80.45	-30.83	-80.67	0.07
8,454.00	2.40	175.90	8,451.14	-87.52	-29.87	-87.73	0.20
8,633.00	2.20	197.50	8,630.00	-94.53	-30.63	-94.75	0.49
8,813.00	1.50	201.80	8,809.91	-100.01	-32.55	-100.24	0.40
8,991.00	1.10	252.60	8,987.86	-102.69	-35.04	-102.94	0.66
9,170.00	2.10	299.00	9,166.80	-101.61	-39.55	-101.89	0.87
9,350.00	3.60	262.60	9,346.58	-100.74	-48.04	-101.08	1.27



Phoenix Technology Services
Phoenix Final Survey Report



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Survey Calculation Method: Minimum Curvature
Database: GCR DB

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
9,528.00	2.30	299.90	9,524.36	-99.68	-56.68	-100.08	1.27
9,707.00	3.30	287.80	9,703.15	-96.31	-64.70	-96.77	0.65
9,888.00	6.10	294.80	9,883.52	-90.69	-78.39	-91.24	1.58
10,067.00	3.10	309.30	10,061.93	-83.63	-90.77	-84.28	1.78
10,246.00	0.50	171.20	10,240.85	-81.33	-94.40	-82.01	1.95
10,425.00	1.50	39.00	10,419.83	-80.29	-92.81	-80.95	1.05
10,511.00	3.80	18.50	10,505.74	-76.71	-91.20	-77.36	2.85
10,556.00	10.60	15.70	10,550.36	-71.30	-89.60	-71.94	15.13
10,601.00	16.80	13.40	10,594.05	-60.98	-86.97	-61.60	13.83
10,645.00	22.20	14.00	10,635.51	-46.72	-83.48	-47.32	12.28
10,690.00	23.20	13.10	10,677.03	-29.84	-79.42	-30.41	2.35
10,735.00	27.80	11.70	10,717.63	-10.92	-75.28	-11.46	10.31
10,779.00	32.80	11.30	10,755.61	10.83	-70.86	10.32	11.37
10,824.00	38.70	9.50	10,792.12	36.68	-66.15	36.21	13.32
10,869.00	43.20	6.60	10,826.10	65.87	-62.05	65.43	10.85
10,913.00	45.80	5.20	10,857.48	96.55	-58.89	96.12	6.32
10,958.00	46.20	5.70	10,888.74	128.77	-55.81	128.37	1.20
11,003.00	49.80	5.10	10,918.85	162.06	-52.67	161.68	8.06
11,047.00	53.50	4.70	10,946.14	196.43	-49.73	196.07	8.44
11,092.00	58.30	3.90	10,971.36	233.58	-46.94	233.24	10.77
11,137.00	63.10	3.60	10,993.38	272.73	-44.38	272.40	10.68
11,181.00	66.90	3.10	11,011.97	312.53	-42.05	312.22	8.70
11,226.00	72.40	2.90	11,027.61	354.65	-39.85	354.35	12.23
11,271.00	76.90	3.10	11,039.52	397.97	-37.58	397.69	10.01
11,315.00	80.70	3.70	11,048.07	441.05	-35.01	440.79	8.74
11,359.00	84.40	4.30	11,053.77	484.56	-31.97	484.32	8.52
11,404.00	87.80	4.10	11,056.83	529.33	-28.68	529.11	7.57
11,449.00	89.80	2.70	11,057.78	574.24	-26.02	574.04	5.42
11,494.00	89.50	2.60	11,058.05	619.19	-23.94	619.00	0.70
11,583.00	90.30	2.30	11,058.21	708.11	-20.13	707.94	0.96
11,672.00	90.70	2.40	11,057.43	797.03	-16.48	796.89	0.46
11,761.00	91.50	1.60	11,055.72	885.96	-13.38	885.84	1.27
11,851.00	90.70	1.30	11,053.99	975.91	-11.10	975.81	0.95
11,940.00	90.90	0.30	11,052.75	1,064.89	-9.86	1,064.79	1.15
12,030.00	91.80	358.90	11,050.63	1,154.86	-10.48	1,154.76	1.85
12,119.00	92.00	358.30	11,047.68	1,243.79	-12.66	1,243.66	0.71
12,208.00	90.20	357.90	11,045.97	1,332.72	-15.61	1,332.57	2.07
12,298.00	91.80	358.70	11,044.40	1,422.66	-18.28	1,422.49	1.99
12,387.00	89.10	357.90	11,043.70	1,511.61	-20.92	1,511.42	3.16
12,477.00	89.40	357.20	11,044.88	1,601.52	-24.76	1,601.30	0.85
12,566.00	88.00	358.20	11,046.90	1,690.42	-28.34	1,690.17	1.93
12,655.00	87.40	358.20	11,050.47	1,779.30	-31.13	1,779.04	0.67
12,745.00	87.90	359.00	11,054.16	1,869.20	-33.33	1,868.91	1.05
12,834.00	88.40	0.10	11,057.03	1,958.15	-34.02	1,957.86	1.36
12,924.00	90.40	0.30	11,057.98	2,048.14	-33.71	2,047.85	2.23



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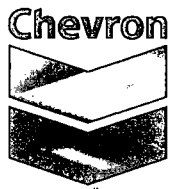
Survey

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13,013.00	91.30	359.10	11,056.65	2,137.13	-34.18	2,136.83	1.69
13,103.00	90.60	359.40	11,055.16	2,227.11	-35.35	2,226.80	0.85
13,192.00	90.30	1.20	11,054.46	2,316.10	-34.89	2,315.79	2.05
13,282.00	90.20	0.90	11,054.07	2,406.08	-33.24	2,405.78	0.35
13,371.00	90.60	1.70	11,053.45	2,495.06	-31.22	2,494.77	1.00
13,461.00	91.20	1.20	11,052.04	2,585.01	-28.94	2,584.74	0.87
13,550.00	89.80	0.90	11,051.26	2,673.99	-27.31	2,673.73	1.61
13,639.00	87.60	0.10	11,053.28	2,762.96	-26.53	2,762.70	2.63
13,729.00	88.00	0.80	11,056.73	2,852.89	-25.83	2,852.63	0.90
13,818.00	89.90	1.50	11,058.36	2,941.85	-24.04	2,941.61	2.28
13,908.00	90.20	2.00	11,058.29	3,031.81	-21.29	3,031.58	0.65
13,997.00	90.40	0.50	11,057.82	3,120.79	-19.35	3,120.57	1.70
14,087.00	90.30	0.10	11,057.27	3,210.78	-18.88	3,210.57	0.46
14,176.00	91.40	0.60	11,055.95	3,299.77	-18.34	3,299.56	1.36
14,266.00	92.80	0.30	11,052.65	3,389.71	-17.63	3,389.49	1.59
14,355.00	93.20	359.10	11,047.99	3,478.58	-18.10	3,478.36	1.42
14,444.00	93.30	0.10	11,042.95	3,567.43	-18.72	3,567.21	1.13
14,534.00	91.00	1.30	11,039.57	3,657.36	-17.62	3,657.14	2.88
14,623.00	91.30	1.20	11,037.79	3,746.32	-15.68	3,746.11	0.36
14,713.00	91.10	0.90	11,035.90	3,836.28	-14.03	3,836.08	0.40
14,802.00	91.20	0.90	11,034.11	3,925.25	-12.63	3,925.06	0.11
14,892.00	89.50	1.30	11,033.56	4,015.23	-10.90	4,015.05	1.94
14,981.00	90.10	1.50	11,033.88	4,104.20	-8.73	4,104.04	0.71
15,071.00	88.30	359.90	11,035.13	4,194.18	-7.63	4,194.02	2.68
15,160.00	90.20	0.60	11,036.30	4,283.17	-7.24	4,283.01	2.28
15,250.00	90.70	359.60	11,035.59	4,373.16	-7.08	4,373.00	1.24
15,339.00	91.20	359.80	11,034.11	4,462.15	-7.55	4,461.98	0.61
15,428.00	91.10	358.60	11,032.33	4,551.12	-8.79	4,550.94	1.35
Last Phoenix MWD Survey							
15,485.00	91.10	358.60	11,031.23	4,608.09	-10.18	4,607.90	0.00
Projection to Bit							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
152.00	152.00	-0.20	0.49	First Phoenix MWD Survey
15,428.00	11,032.33	4,551.12	-8.79	Last Phoenix MWD Survey
15,485.00	11,031.23	4,608.09	-10.18	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____



Chevron

**Lea County NM (NAD27 NME)
J Keats 1-24-32
40H**

**WB1/Job #1310805
Survey: Phoenix MWD Survey**

Anticollision Report

05 February, 2014





Phoenix Technology Services

Anticollision Report



Company: Chevron
 Project: Lea County NM (NAD27 NME)
 Reference Site: J Keats 1-24-32
 Site Error: 0.00 usft
 Reference Well: 40H
 Well Error: 0.00 usft
 Reference Wellbore: WB1/Job #1310805
 Reference Design: Survey: Phoenix MWD Survey

Local Co-ordinate Reference: Well 40H
 TVD Reference: KB @ 3631.50usft (Ensign 153)
 MD Reference: KB @ 3631.50usft (Ensign 153)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at: 2.00 sigma
 Database: GCR DB
 Offset TVD Reference: Offset Datum

Reference	Survey: Phoenix MWD Survey				
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria				
Interpolation Method:	Stations	Error Model:	ISCWSA		
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D		
Results Limited by:	Maximum center-center distance of 9,999.98 usft		Error Surface:	Elliptical Conic	
Warning Levels Evaluated at:	2.00 Sigma		Casing Method:	Not applied	

Survey Program		Date 02/05/14			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
152.00	15,485.00	Phoenix MWD Survey (WB1/Job #131080	MWD	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Newman Federal						
#1 - WB1 - Inc Surveys	367.70	317.20	68.09	59.72	8.136 CC	
#1 - WB1 - Inc Surveys	4,995.08	4,943.83	114.25	-148.06	0.436 Level 1, SF	
#1 - WB1 - Inc Surveys	5,053.00	4,970.00	117.35	-148.90	0.441 Level 1, ES	

Offset Design Newman Federal - #1 - WB1 - Inc Surveys												Offset Site Error: 0.00 usft	
Survey Program: 408-INC												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
0.00	0.00	0.00	0.00	0.00	0.00	90.33	-0.40	69.70	86.07				
152.00	152.00	101.50	101.50	0.14	2.49	-21.52	-0.90	69.70	69.21	66.58	2.63	26.318	
301.00	301.00	250.50	250.50	0.46	6.14	-32.50	-1.03	69.70	68.29	61.69	6.60	10.349	
367.70	367.70	317.20	317.19	0.60	7.77	90.05	-0.86	69.70	68.09	59.72	8.37	8.136 CC	
485.00	484.99	434.50	434.49	0.84	11.02	147.53	-0.35	69.70	68.70	56.84	11.86	5.792	
665.00	664.98	614.49	614.48	1.22	17.99	158.01	-0.17	69.70	70.65	51.44	19.21	3.678	
843.00	842.97	792.50	792.47	1.60	24.88	155.07	-0.33	69.70	72.22	45.75	26.47	2.728	
1,021.00	1,020.96	970.50	970.46	1.98	31.05	-177.12	-0.40	69.70	74.18	41.17	33.01	2.247	
1,200.00	1,199.94	1,149.49	1,149.44	2.35	37.07	167.66	-0.40	69.70	76.35	36.95	39.40	1.938	
1,244.00	1,243.94	1,193.49	1,193.44	2.44	38.58	178.79	-0.40	69.70	76.81	35.80	41.01	1.873	
1,376.00	1,375.94	1,325.49	1,325.44	2.72	43.13	163.60	-0.40	69.70	78.05	32.22	45.83	1.703	
1,555.00	1,554.93	1,504.49	1,504.43	3.08	49.39	140.69	-0.40	69.70	79.26	26.82	52.44	1.511	
1,735.00	1,734.92	1,684.48	1,684.42	3.46	55.69	140.81	-0.40	69.70	80.84	21.76	59.08	1.368 Level 3	
1,914.00	1,913.90	1,863.47	1,863.39	3.83	62.01	133.62	-0.43	69.70	82.67	16.95	65.72	1.258 Level 3	
2,093.00	2,092.88	2,042.47	2,042.39	4.21	69.11	132.42	-0.42	69.70	84.58	11.51	73.07	1.157 Level 2	
2,272.00	2,271.85	2,221.44	2,221.34	4.59	76.15	129.76	-0.25	69.70	86.71	6.41	80.30	1.080 Level 2	
2,451.00	2,450.81	2,400.41	2,400.31	4.98	82.83	133.36	-0.40	69.70	89.33	2.29	87.04	1.026 Level 2	
2,630.00	2,629.74	2,579.33	2,579.21	5.37	89.03	130.17	-0.46	69.70	92.54	-0.57	93.12	0.994 Level 1	
2,809.00	2,808.70	2,758.34	2,758.23	5.75	96.16	-165.31	-0.48	69.70	95.79	-4.47	100.27	0.955 Level 1	
2,988.00	2,987.67	2,937.30	2,937.16	6.13	104.89	-172.91	-0.58	69.70	99.03	-10.25	109.28	0.906 Level 1	
3,167.00	3,166.84	3,116.30	3,116.17	6.52	114.12	-179.61	-0.46	69.70	102.43	-16.34	118.77	0.862 Level 1	
3,346.00	3,345.60	3,295.25	3,295.07	6.91	123.29	176.46	-0.32	69.70	106.15	-22.00	128.15	0.828 Level 1	
3,525.00	3,524.54	3,474.25	3,474.05	7.30	132.48	-179.56	-0.51	69.70	110.71	-26.75	137.46	0.805 Level 1	
3,704.00	3,703.46	3,653.19	3,652.96	7.69	141.66	178.94	-0.30	69.70	115.82	-31.07	146.89	0.788 Level 1	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



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 Reference Site: J Keats 1-24-32
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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Output errors are at 2.00 sigma
 Database: GCR DB
 Offset TVD Reference: Offset Datum

Offset Design Newman Federal - #1 - WB1 - Inc Surveys													Offset Site Error: 0.00 usft
Survey Program: 408-INC													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,883.00	3,882.37	3,832.01	3,831.77	8.08	151.91	-173.92	-0.87	69.70	121.70	-35.50	157.21	0.774 Level 1	
4,062.00	4,061.26	4,011.01	4,010.76	8.47	163.31	-173.71	-1.36	69.70	128.17	-40.61	168.78	0.759 Level 1	
4,241.00	4,240.20	4,190.02	4,189.77	8.84	174.71	-73.82	-1.13	69.70	130.67	-50.37	181.04	0.722 Level 1	
4,420.00	4,419.10	4,368.94	4,368.57	9.19	186.83	-66.88	-0.45	69.70	128.49	-65.97	194.46	0.661 Level 1	
4,599.00	4,597.92	4,547.82	4,547.43	9.54	202.72	-61.52	-0.43	69.70	124.95	-86.60	211.56	0.591 Level 1	
4,776.00	4,774.76	4,724.80	4,724.25	9.89	221.64	-36.66	-0.41	69.70	120.26	-111.00	231.26	0.520 Level 1	
4,874.00	4,872.69	4,822.81	4,822.19	10.09	234.33	-41.86	-0.45	69.70	117.42	-126.84	244.26	0.481 Level 1	
4,995.08	4,993.68	4,943.83	4,943.16	10.34	252.08	-48.59	-0.49	69.70	114.25	-148.06	262.30	0.436 Level 1, SF	
5,053.00	5,051.57	4,970.00	4,969.19	10.46	255.92	-51.71	-0.40	69.70	117.35	-148.90	266.25	0.441 Level 1, ES	
5,232.00	5,230.46	4,970.00	4,969.19	10.83	255.92	-57.48	-0.40	69.70	237.51	-29.15	266.66	0.891 Level 1	
5,411.00	5,409.38	4,970.00	4,969.19	11.21	255.92	-68.29	-0.40	69.70	404.19	137.18	267.01	1.514	
5,590.00	5,588.32	4,970.00	4,969.19	11.60	255.92	-72.39	-0.40	69.70	578.47	311.16	267.31	2.164	
5,769.00	5,767.29	4,970.00	4,969.19	11.98	255.92	-58.01	-0.40	69.70	754.95	487.68	267.27	2.825	
5,948.00	5,946.25	4,970.00	4,969.19	12.35	255.92	-61.25	-0.40	69.70	932.36	684.64	267.72	3.483	
6,127.00	6,125.23	4,970.00	4,969.19	12.73	255.92	-55.78	-0.40	69.70	1,110.30	843.69	266.61	4.165	
6,307.00	6,305.22	4,970.00	4,969.19	13.12	255.92	-52.77	-0.40	69.70	1,289.54	1,023.21	266.34	4.842	
6,486.00	6,484.21	4,970.00	4,969.19	13.50	255.92	-37.37	-0.40	69.70	1,467.98	1,203.50	264.48	5.550	
6,665.00	6,663.21	4,970.00	4,969.19	13.88	255.92	-100.76	-0.40	69.70	1,646.59	1,378.33	268.26	6.138	
6,844.00	6,842.19	4,970.00	4,969.19	14.26	255.92	-120.82	-0.40	69.70	1,825.35	1,555.33	270.02	6.760	
7,023.00	7,021.14	4,970.00	4,969.19	14.63	255.92	-87.22	-0.40	69.70	2,004.17	1,739.22	264.95	7.564	
7,202.00	7,200.06	4,970.00	4,969.19	15.00	255.92	-82.38	-0.40	69.70	2,183.00	1,922.22	260.78	8.371	
7,381.00	7,378.96	4,970.00	4,969.19	15.37	255.92	-67.39	-0.40	69.70	2,361.83	2,110.49	251.34	9.397	
7,560.00	7,557.86	4,970.00	4,969.19	15.75	255.92	-93.72	-0.40	69.70	2,540.69	2,273.34	267.35	9.503	
7,738.00	7,735.76	4,970.00	4,969.19	16.13	255.92	-67.53	-0.40	69.70	2,718.58	2,468.52	250.06	10.872	
7,918.00	7,915.59	4,970.00	4,969.19	16.50	255.92	-54.11	-0.40	69.70	2,898.43	2,672.31	226.12	12.818	
8,097.00	8,094.42	4,970.00	4,969.19	16.88	255.92	-61.40	-0.40	69.70	3,077.28	2,817.67	259.61	11.853	
8,276.00	8,273.28	4,970.00	4,969.19	17.25	255.92	-59.73	-0.40	69.70	3,256.13	2,994.36	261.76	12.439	
8,454.00	8,451.14	4,970.00	4,969.19	17.63	255.92	-58.77	-0.40	69.70	3,434.00	3,184.39	249.61	13.758	
8,633.00	8,630.00	4,970.00	4,969.19	18.02	255.92	-74.46	-0.40	69.70	3,612.93	3,373.96	238.97	15.119	
8,813.00	8,809.91	4,970.00	4,969.19	18.41	255.92	-118.30	-0.40	69.70	3,792.90	3,520.01	272.89	13.899	
8,991.00	8,987.87	4,970.00	4,969.19	18.79	255.92	129.34	-0.40	69.70	3,970.87	3,820.97	149.90	26.489	
9,170.00	9,166.80	4,970.00	4,969.19	19.17	255.92	53.29	-0.40	69.70	4,149.78	4,028.72	121.06	34.280	
9,350.00	9,346.59	4,970.00	4,969.19	19.56	255.92	30.66	-0.40	69.70	4,329.66	4,072.32	257.34	16.825	
9,528.00	9,524.36	4,970.00	4,969.19	19.93	255.92	50.99	-0.40	69.70	4,507.53	4,383.80	123.74	36.429	
9,707.00	9,703.15	4,970.00	4,969.19	20.31	255.92	37.73	-0.40	69.70	4,686.36	4,500.94	185.42	25.274	
9,886.00	9,883.52	4,970.00	4,969.19	20.71	255.92	18.90	-0.40	69.70	4,866.92	4,650.71	216.21	22.510	
10,067.00	10,061.93	4,970.00	4,969.19	21.08	255.92	39.52	-0.40	69.70	5,045.48	4,917.32	128.16	39.369	
10,248.00	10,240.85	4,970.00	4,969.19	21.44	255.92	-93.05	-0.40	69.70	5,224.38	4,951.74	272.62	19.164	
10,425.00	10,419.83	4,970.00	4,969.19	21.80	255.92	13.97	-0.40	69.70	5,403.17	5,169.05	234.13	23.078	
10,511.00	10,505.74	4,970.00	4,969.19	21.98	255.92	14.77	-0.40	69.70	5,488.93	5,305.16	183.77	29.868	
10,556.00	10,550.36	4,970.00	4,969.19	22.07	255.92	6.79	-0.40	69.70	5,533.41	5,380.69	152.72	36.232	
10,601.00	10,594.05	4,970.00	4,969.19	22.15	255.92	4.65	-0.40	69.70	5,576.89	5,438.07	138.82	40.172	
10,645.00	10,635.51	4,970.00	4,969.19	22.23	255.92	3.58	-0.40	69.70	5,618.10	5,484.10	134.00	41.926	
10,690.00	10,677.03	4,970.00	4,969.19	22.30	255.92	3.47	-0.40	69.70	5,659.38	5,528.26	131.11	43.164	
10,735.00	10,717.63	4,970.00	4,969.19	22.38	255.92	2.97	-0.40	69.70	5,699.79	5,576.49	123.31	46.225	
10,779.00	10,755.61	4,970.00	4,969.19	22.45	255.92	2.57	-0.40	69.70	5,737.65	5,620.88	116.77	49.137	
10,824.00	10,792.12	4,970.00	4,969.19	22.52	255.92	2.23	-0.40	69.70	5,774.14	5,667.60	106.54	54.195	
10,869.00	10,826.10	4,970.00	4,969.19	22.61	255.92	2.01	-0.40	69.70	5,808.28	5,711.30	96.98	59.892	
10,913.00	10,857.48	4,970.00	4,969.19	22.71	255.92	1.90	-0.40	69.70	5,840.01	5,747.88	92.13	63.391	
10,958.00	10,888.74	4,970.00	4,969.19	22.83	255.92	1.90	-0.40	69.70	5,871.81	5,779.69	92.12	63.741	
11,003.00	10,918.85	4,970.00	4,969.19	22.97	255.92	1.77	-0.40	69.70	5,902.68	5,816.08	86.58	68.176	
11,047.00	10,946.14	4,970.00	4,969.19	23.12	255.92	1.66	-0.40	69.70	5,930.92	5,850.00	80.92	73.296	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services

Anticollision Report



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Site Error: 0.00 usft
Reference Well: 40H
Well Error: 0.00 usft
Reference Wellbore: WB1/Job #1310805
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Output errors are at: 2.00 sigma
Database: GCR DB
Offset TVD Reference: Offset Datum

Offset Design Newman Federal - #1 - WB1 - Inc Surveys													Offset Site Error: 0.00 usft
Survey Program: 408-INC													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,092.00	10,971.36	4,970.00	4,969.19	23.28	255.92	1.53	-0.40	69.70	5,957.41	5,884.27	73.14	81.452	
11,137.00	10,993.38	4,970.00	4,969.19	23.47	255.92	1.44	-0.40	69.70	5,981.02	5,915.53	65.48	91.337	
11,181.00	11,011.97	4,970.00	4,969.19	23.68	255.92	1.37	-0.40	69.70	6,001.48	5,942.32	59.17	101.434	
11,226.00	11,027.61	4,970.00	4,969.19	23.90	255.92	1.30	-0.40	69.70	6,019.40	5,969.27	50.13	120.066	
11,271.00	11,039.52	4,970.00	4,969.19	24.15	255.92	1.28	-0.40	69.70	6,033.95	5,991.09	42.86	140.775	
11,315.00	11,048.07	4,970.00	4,969.19	24.42	255.92	1.30	-0.40	69.70	6,045.42	6,008.45	36.97	163.527	
11,359.00	11,053.77	4,970.00	4,969.19	24.70	255.92	1.32	-0.40	69.70	6,054.39	6,022.90	31.49	192.256	
11,404.00	11,056.83	4,970.00	4,969.19	25.01	255.92	1.30	-0.40	69.70	6,061.13	6,034.23	26.90	225.279	
11,449.00	11,057.78	4,970.00	4,969.19	25.34	255.92	1.16	-0.40	69.70	6,068.12	6,041.37	24.75	245.056	
11,494.00	11,058.05	4,970.00	4,969.19	25.64	255.92	1.16	-0.40	69.70	6,070.78	6,045.80	24.98	242.978	
11,583.00	11,058.21	4,970.00	4,969.19	26.31	255.92	1.12	-0.40	69.70	6,080.60	6,055.96	24.64	246.822	
11,672.00	11,057.43	4,970.00	4,969.19	27.12	255.92	1.13	-0.40	69.70	6,090.78	6,068.03	24.75	246.088	
11,761.00	11,055.72	4,970.00	4,969.19	27.99	255.92	1.02	-0.40	69.70	6,101.32	6,076.66	24.66	247.422	
11,851.00	11,053.99	4,970.00	4,969.19	28.86	255.92	0.98	-0.40	69.70	6,113.30	6,088.55	24.75	246.981	
11,940.00	11,052.75	4,970.00	4,969.19	29.75	255.92	0.81	-0.40	69.70	6,126.90	6,102.36	24.55	249.596	
12,030.00	11,050.83	4,970.00	4,969.19	30.78	255.92	0.55	-0.40	69.70	6,141.11	6,116.81	24.50	250.652	
12,119.00	11,047.68	4,970.00	4,969.19	31.86	255.92	0.43	-0.40	69.70	6,155.60	6,130.89	24.71	249.111	
12,208.00	11,045.97	4,970.00	4,969.19	32.90	255.92	0.35	-0.40	69.70	6,172.56	6,147.96	24.60	250.913	
12,298.00	11,044.40	4,970.00	4,969.19	33.99	255.92	0.53	-0.40	69.70	6,191.12	6,165.72	25.39	243.816	
12,387.00	11,043.70	4,970.00	4,969.19	35.11	255.92	0.34	-0.40	69.70	6,211.52	6,185.60	25.92	239.597	
12,477.00	11,044.88	4,970.00	4,969.19	36.28	255.92	0.15	-0.40	69.70	6,235.22	6,209.32	25.89	240.791	
12,566.00	11,046.90	4,970.00	4,969.19	37.46	255.92	0.43	-0.40	69.70	6,260.84	6,232.77	27.88	224.577	
12,655.00	11,050.47	4,970.00	4,969.19	38.62	255.92	0.43	-0.40	69.70	6,288.70	6,259.72	28.99	216.952	
12,745.00	11,054.16	4,970.00	4,969.19	39.84	255.92	0.68	-0.40	69.70	6,318.29	6,289.13	29.16	216.665	
12,834.00	11,057.03	4,970.00	4,969.19	41.09	255.92	1.03	-0.40	69.70	6,347.92	6,318.02	29.90	212.273	
12,924.00	11,057.98	4,970.00	4,969.19	42.40	255.92	1.08	-0.40	69.70	6,377.15	6,347.82	29.33	217.422	
13,013.00	11,056.66	4,970.00	4,969.19	43.74	255.92	0.66	-0.40	69.70	6,405.05	6,376.42	28.63	223.723	
13,103.00	11,055.16	4,970.00	4,969.19	45.06	255.92	0.77	-0.40	69.70	6,434.26	6,404.96	29.30	219.625	
13,192.00	11,054.46	4,970.00	4,969.19	46.33	255.92	1.45	-0.40	69.70	6,464.85	6,433.03	31.92	202.521	
13,282.00	11,054.07	4,970.00	4,969.19	47.66	255.92	1.33	-0.40	69.70	6,497.34	6,465.33	32.01	202.968	
13,371.00	11,053.45	4,970.00	4,969.19	48.99	255.92	1.65	-0.40	69.70	6,530.21	6,496.69	33.53	194.789	
13,461.00	11,052.04	4,970.00	4,969.19	50.38	255.92	1.44	-0.40	69.70	6,563.78	6,530.58	33.21	197.655	
13,550.00	11,051.26	4,970.00	4,969.19	51.74	255.92	1.32	-0.40	69.70	6,598.80	6,565.05	33.55	196.661	
13,639.00	11,053.28	4,970.00	4,969.19	53.07	255.92	0.98	-0.40	69.70	6,636.99	6,602.26	34.73	191.127	
13,729.00	11,056.73	4,970.00	4,969.19	54.45	255.92	1.31	-0.40	69.70	6,678.04	6,642.28	35.76	186.747	
13,818.00	11,058.36	4,970.00	4,969.19	55.86	255.92	1.62	-0.40	69.70	6,717.98	6,681.88	36.09	186.130	
13,908.00	11,058.29	4,970.00	4,969.19	57.29	255.92	1.86	-0.40	69.70	6,757.75	6,720.33	37.42	180.570	
13,997.00	11,057.82	4,970.00	4,969.19	58.70	255.92	1.10	-0.40	69.70	6,797.70	6,762.53	35.17	193.284	
14,087.00	11,057.27	4,970.00	4,969.19	60.13	255.92	0.89	-0.40	69.70	6,839.00	6,803.90	35.10	194.867	
14,176.00	11,055.95	4,970.00	4,969.19	61.57	255.92	1.15	-0.40	69.70	6,880.06	6,843.69	36.37	189.148	
14,266.00	11,052.65	4,970.00	4,969.19	63.04	255.92	0.97	-0.40	69.70	6,920.77	6,883.68	37.09	186.606	
14,355.00	11,047.99	4,970.00	4,969.19	64.51	255.92	0.31	-0.40	69.70	6,960.71	6,923.92	36.79	189.207	
14,444.00	11,042.95	4,970.00	4,969.19	65.95	255.92	0.87	-0.40	69.70	7,001.20	6,962.85	38.36	182.534	
14,534.00	11,039.57	4,970.00	4,969.19	67.37	255.92	1.60	-0.40	69.70	7,044.55	7,004.49	40.07	175.816	
14,623.00	11,037.79	4,970.00	4,969.19	68.80	255.92	1.54	-0.40	69.70	7,089.81	7,049.22	40.39	175.521	
14,713.00	11,035.90	4,970.00	4,969.19	70.27	255.92	1.35	-0.40	69.70	7,135.96	7,095.66	40.30	177.091	
14,802.00	11,034.11	4,970.00	4,969.19	71.73	255.92	1.35	-0.40	69.70	7,182.87	7,141.82	40.85	175.810	
14,892.00	11,033.56	4,970.00	4,969.19	73.19	255.92	1.84	-0.40	69.70	7,231.77	7,188.91	42.85	168.762	
14,981.00	11,033.88	4,970.00	4,969.19	74.63	255.92	1.77	-0.40	69.70	7,281.78	7,238.13	43.65	166.838	
15,071.00	11,035.13	4,970.00	4,969.19	76.11	255.92	0.68	-0.40	69.70	7,333.89	7,291.93	41.97	174.755	
15,160.00	11,036.30	4,970.00	4,969.19	77.57	255.92	1.16	-0.40	69.70	7,388.09	7,343.52	42.57	173.490	
15,250.00	11,035.59	4,970.00	4,969.19	79.09	255.92	0.44	-0.40	69.70	7,438.08	7,396.90	41.18	180.632	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Technology Services
Anticollision Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Reference Site: J Keats 1-24-32
Site Error: 0.00 usft
Reference Well: 40H
Well Error: 0.00 usft
Reference Wellbore: WB1/Job #1310805
Reference Design: Survey: Phoenix MWD Survey

Local Co-ordinate Reference: Well 40H
TVD Reference: KB @ 3631.50usft (Ensign 153)
MD Reference: KB @ 3631.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: GCR DB
Offset TVD Reference: Offset Datum

Offset Design Newman Federal - #1 - WB1 - Inc Surveys

Survey Program: 408-INC
Reference

Offset Site Error: 0.00 usft

Offset Well Error: 0.00 usft

Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,339.00	11,034.11	4,970.00	4,969.19	80.59	255.92	0.58	-0.40	69.70	7,489.56	7,447.51	42.05	178.093	
15,428.00	11,032.33	4,970.00	4,969.19	82.08	255.92	-0.31	-0.40	69.70	7,541.50	7,499.40	42.11	179.093	
15,485.00	11,031.23	4,970.00	4,969.19	83.04	255.92	-0.31	-0.40	69.70	7,575.17	7,532.69	42.48	178.319	



Phoenix Technology Services

Anticollision Report



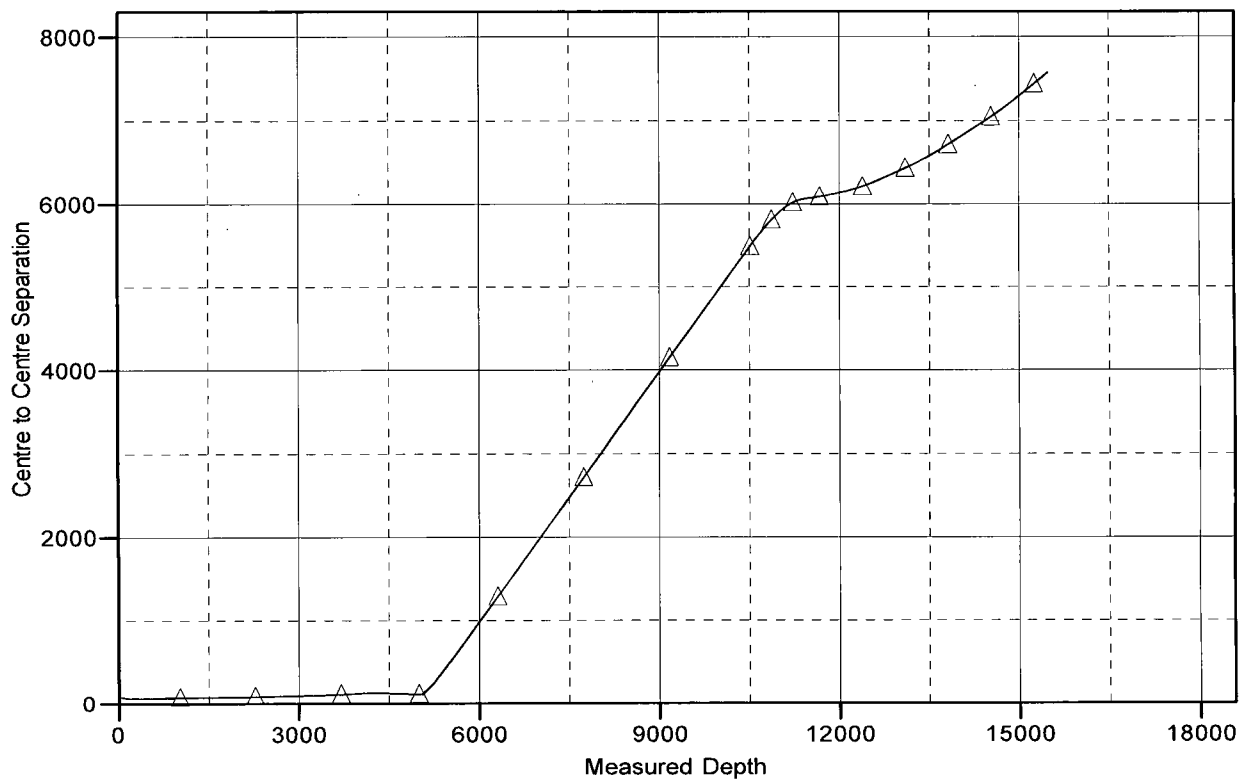
Company: Chevron
Project: Lea County NM (NAD27 NME)
Reference Site: J Keats 1-24-32
Site Error: 0.00 usft
Reference Well: 40H
Well Error: 0.00 usft
Reference Wellbore: WB1/Job #1310805
Reference Design: Survey: Phoenix MWD Survey

Local Co-ordinate Reference: Well 40H
TVD Reference: KB @ 3631.50usft (Ensign 153)
MD Reference: KB @ 3631.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: GCR DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3631.50usft (Ensign 153)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 19' 60.00000 W

Coordinates are relative to: 40H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

Ladder Plot



LEGEND

▲ #1, WB1, Inc Surveys V0



Phoenix Technology Services
Anticollision Report



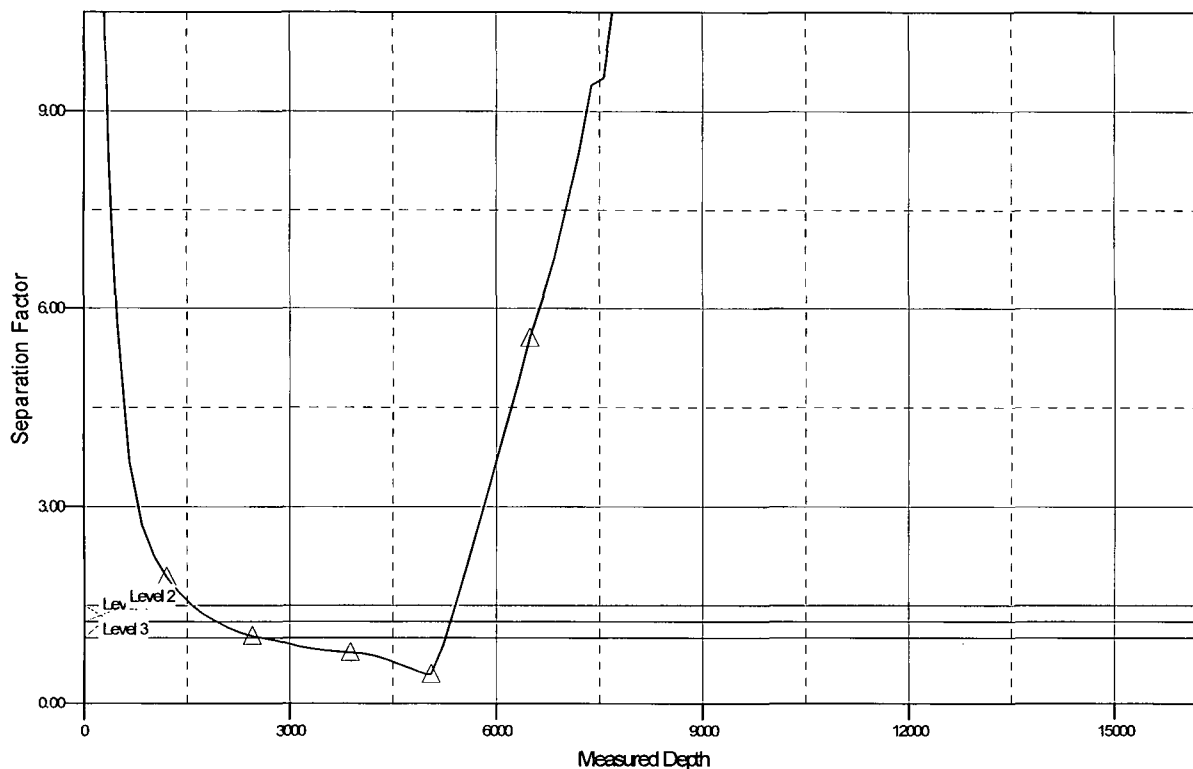
Company: Chevron
Project: Lea County NM (NAD27 NME)
Reference Site: J Keats 1-24-32
Site Error: 0.00 usft
Reference Well: 40H
Well Error: 0.00 usft
Reference Wellbore: WB1/Job #1310805
Reference Design: Survey: Phoenix MWD Survey

Local Co-ordinate Reference: Well 40H
TVD Reference: KB @ 3631.50usft (Ensign 153)
MD Reference: KB @ 3631.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: GCR DB
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB @ 3631.50usft (Ensign 153)
Offset Depths are relative to Offset Datum
Central Meridian is 104° 19' 60.00000 W

Coordinates are relative to: 40H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.38°

Separation Factor Plot



LEGEND

▲ #1, WB1, Inc Surveys V0

Exhibit A-1

DISTRICT I
1635 N French Dr., Hobbs, NM 88240
Phone (505) 393-6161 Fax (505) 393-0720

DISTRICT II
811 S First St., Artesia, NM 88210
Phone (505) 748-1283 Fax (505) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

DISTRICT IV
1220 S St Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96674	Pool Name TRIPLE X; BONE SPRING West
Property Code	Property Name J KEATS 1-24-32	Well Number 40H
GRID No. 4323	Operator Name CHEVRON USA INC	Elevation 3607'

Surface Location

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	I	24-S	32-E		330	SOUTH	400	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
ALOT 1	I	24-S	32-E		330	NORTH	340	EAST	LEA
Dedicated 160159.9B	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

4 3 2 A 1 39.49 AC. 39.64 AC. 39.78 AC. 39.93 AC. GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=451851.4 N X=720368.3 E LAT.=32.240246° N LONG.=103.620599° W BOTTOM HOLE LOCATION Y=456471.5 N X=720401.6 E CORNER COORDINATES TABLE A - Y=456790.4 N, X=719418.7 E B - Y=456805.3 N, X=720739.6 E C - Y=451523.8 N, X=720770.2 E D - Y=451515.8 N, X=719453.6 E DETAIL 3608.6' 3610.8' 600' 3605.2' 3606.1' S.L. 400' GRID AZ.=00°24'40" HORIZ. DIST.=4621.3'	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Deirdre Pinkerton</i> 08/22/2013 Signature Date Deirdre Pinkerton Printed Name <i>LeaKeid@chevron.com</i> E-mail Address SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 23, 2013 Date of Survey <i>Ronald J. Eidson</i> Signature of Professional Surveyor RONALD J. EIDSON NEW MEXICO REGISTERED SURVEYOR 3239 7/23/2013 Certified Professional Surveyor Ronald J. Eidson 12641 3239 BKL REV W.O. 1311.0345 JWSC W.O. 1311.0849
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