Results of Directional Survey

API number:	30-025-41481			
OGRID:		Operator:	CHEVRON U S A INC	
		Property:	BELL LAKE 18 23 34	# 1

surface	ULSTR:	E	18	T	23S	R	34E
				2290	FNL	330	FWL

BH Loc	ULSTR:	E	18	T	23S	R	34E
5040	MD	5037.3	TVD	2211	FNL	395	FWL

Top Perf/OH	ULSTR:			T		R	

Bot Perf/OH	ULSTR:			T		R	

	MD	N/S	E/W	VD
TOP PERFS/OH				
BOT PERFS/OH				

NEXT TO LAST	4966	80.59	62.09	4963.38
LAST READING	5040	79.05	65.36	5037.29
TD	**5040**	79.05	65.36	5037.29

Surface Location	2290	FN	330	FW
Projected BHL	2211	FN	395	FW
Location of				
Top Perfs/OH				
Bottom Perfs/OH				

SUMMARY of Subsurface Locations

Surface Location	E-18-23S-34E	2290	FN	330	FW	Vert. Depth
Top Perfs/OH						
Bottom Perfs/OH						
Projected TD	E-18-23S-34E	2211	FN	395	FW	5037.29

APR 15 2014

PHOENIX
TECHNOLOGY SERVICES

30-025-41481

January 16, 2014

Oil Conservation Division
State of New Mexico
1625 N. French Drive
Hobbs, New Mexico 88240

HOBBS OCD

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Dear District 1 - Hobbs

Re: Chevron North America Exploration
Bell Lake 18-23-34 #1H
Lea County, NM
API #30-025-41481
Job No. 1311443

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Zak Dawson	1H	1,203	4,966	1/03/14	1/06/14	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Dolly Bush

Dolly Bush
Operations Administrator

Certified mail receipt number: 7012 3050 0001 3227 2870

1805 Brittmoore Rd. Houston, TX 77043 • Phone (713) 337-0600 • Fax (713) 337-0599
www.phxtech.com

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Phoenix Technology Services
SURVEY DATA CERTIFICATION

PHOENIX TECHNOLOGY SERVICES

PHOENIX JOB NUMBER	1311443	OPERATOR	Chevron
WELL NAME	Bell Lake 18-23-34 #1H	COUNTY & STATE	Lea County, NM
API WELL NUMBER	30-025-41481	PROPOSED DIRECTION	89.57

TIE-IN DATA

MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
1,087 ft	1086.97	0.64	29.18	-1.81	-2.03	Surface

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
3-Jan-14	1,203 ft	1.10	22.20

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
6-Jan-14	4,966 ft	2.8	115.3

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
6-Jan-14	5,040 ft	2.8	115.3

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.82
DECLINATION OR GRID	GRID

TO THE BEST OF MY KNOWLEDGE I CERTIFY THIS SURVEY DATA TO BE TRUE AND CORRECT.

Zak Dawson

PRINT YOUR NAME ABOVE

Zak Dawson

SIGN YOUR NAME ABOVE

1/6/2014

TODAY'S DATE

MWD SUPERVISOR 1	Derek Webster	DIRECTIONAL DRILLER 1	Craig Cannon
MWD SUPERVISOR 2	Zak Dawson	DIRECTIONAL DRILLER 2	0

1805 Brittmore Road Houston, Texas 77043 (713)3370609 (Voice), (713)337-0599 (Fax)

Chevron

Chevron

Lea County NM (NAD27 NME)
Bell Lake 18-23-34
#1H
WB1/Job #1311443

Survey: Phoenix MWD Survey

Survey Report

16 January, 2014

PHOENIX
TECHNOLOGY SERVICES

Chevron

Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County NM (NAD27 NME)	**TVD Reference:**	KB @ 3549.50usft (Ensign 153)
Site:	Bell Lake 18-23-34	**MD Reference:**	KB @ 3549.50usft (Ensign 153)
Well:	#1H	**North Reference:**	Grid
Wellbore:	WB1/Job #1311443	**Survey Calculation Method:**	Minimum Curvature
Design:	Surveys (Ensign 153)	**Database:**	GCR DB v5000

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 Bell Lake 18-23-34

Site Position:		**Northing:**	475,806.80 usft	**Latitude:**	32° 18' 19.66594 N
From:	Map	**Easting:**	752,539.70 usft	**Longitude:**	103° 30' 57.47688 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.44 °

Well #1H

Well Position	**+N/-S**	0.00 usft	**Northing:**	475,806.80 usft	**Latitude:**	32° 18' 19.66594 N
	+E/-W	0.00 usft	**Easting:**	752,539.70 usft	**Longitude:**	103° 30' 57.47688 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,525.00 usft

Wellbore WB1/Job #1311443

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/26/13	7.25	60.21	48,417

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	88.57

Chevron

Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County NM (NAD27 NME)	**TVD Reference:**	KB @ 3549.50usft (Ensign 153)
Site:	Bell Lake 18-23-34	**MD Reference:**	KB @ 3549.50usft (Ensign 153)
Well:	#1H	**North Reference:**	Grid
Wellbore:	WB1/Job #1311443	**Survey Calculation Method:**	Minimum Curvature
Design:	Surveys (Ensign 153)	**Database:**	GCR DB v5000

Survey Program Date 01/16/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
90.00	1,014.00	MS Gyro Survey (WB1/Job #1311443)	CB-GYRO-MS	Camera based gyro multishot
1,087.00	5,040.00	Phoenix MWD Survey (WB1/Job #131144	MWD	MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
1,087.00	0.64	29.18	-2,462.53	1,086.97	-1.81	-2.03	-2.08	0.00	475,804.99	752,537.67
Tie In to MS Gyro										
1,203.00	1.10	22.20	-2,346.54	1,202.96	-0.22	-1.30	-1.30	0.41	475,806.58	752,538.40
First Phoenix MWD Survey										
1,382.00	1.30	15.30	-2,167.58	1,381.92	3.33	-0.11	-0.03	0.14	475,810.13	752,539.59
1,560.00	1.40	13.90	-1,989.63	1,559.87	7.39	0.94	1.13	0.06	475,814.19	752,540.64
1,739.00	1.60	11.90	-1,810.69	1,738.81	11.96	1.98	2.28	0.12	475,818.76	752,541.68
1,918.00	1.80	6.00	-1,631.77	1,917.73	17.20	2.79	3.22	0.15	475,824.00	752,542.49
2,097.00	2.20	4.60	-1,452.88	2,096.62	23.42	3.36	3.95	0.23	475,830.22	752,543.06
2,276.00	2.50	6.90	-1,274.03	2,275.47	30.72	4.11	4.87	0.18	475,837.52	752,543.81
2,455.00	2.90	11.50	-1,095.23	2,454.27	39.03	5.48	6.45	0.25	475,845.83	752,545.18
2,635.00	2.20	14.30	-915.41	2,634.09	46.84	7.24	8.41	0.39	475,853.64	752,546.94
2,814.00	1.80	7.70	-736.52	2,812.98	52.96	8.47	9.79	0.26	475,859.76	752,548.17
2,992.00	2.20	9.50	-558.63	2,990.87	59.10	9.40	10.88	0.23	475,865.90	752,549.10
3,172.00	0.80	2.60	-378.69	3,170.81	63.76	10.03	11.62	0.78	475,870.56	752,549.73
3,351.00	1.30	22.60	-199.72	3,349.78	66.89	10.87	12.53	0.34	475,873.69	752,550.57
3,530.00	1.80	24.90	-20.79	3,528.71	71.31	12.83	14.61	0.28	475,878.11	752,552.53
3,709.00	1.90	30.90	158.12	3,707.62	76.41	15.54	17.44	0.12	475,883.21	752,555.24
3,888.00	1.90	37.30	337.02	3,886.52	81.31	18.86	20.89	0.12	475,888.11	752,558.56
4,067.00	1.70	44.00	515.93	4,065.43	85.58	22.50	24.63	0.16	475,892.38	752,562.20
4,246.00	2.60	67.00	694.81	4,244.31	89.08	28.09	30.30	0.69	475,895.88	752,567.79
4,426.00	2.70	87.90	874.62	4,424.12	90.83	36.08	38.34	0.54	475,897.63	752,575.78

Chevron

Survey Report

PHOENIX TECHNOLOGY SERVICES

Company:	Chevron	**Local Co-ordinate Reference:**	Well #1H
Project:	Lea County NM (NAD27 NME)	**TVD Reference:**	KB @ 3549.50usft (Ensign 153)
Site:	Bell Lake 18-23-34	**MD Reference:**	KB @ 3549.50usft (Ensign 153)
Well:	#1H	**North Reference:**	Grid
Wellbore:	WB1/Job #1311443	**Survey Calculation Method:**	Minimum Curvature
Design:	*Surveys (Ensign 153)*	***Database:***	*GCR DB v5000*

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,605.00	3.40	111.80	1,053.37	4,602.87	89.01	45.22	47.43	0.80	475,895.81	752,584.92
4,784.00	2.90	119.90	1,232.10	4,781.60	84.79	54.08	56.18	0.37	475,891.59	752,593.78
4,966.00	2.80	115.30	1,413.88	4,963.38	80.59	62.09	64.08	0.14	475,887.39	752,601.79
Last Phoenix MWD Survey										
5,040.00	2.80	115.30	1,487.79	5,037.29	79.05	65.36	67.31	0.00	475,885.85	752,605.06
Projection to Bit										

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,087.00	1,086.97			Tie in to MS Gyro
1,203.00	1,202.96	-0.22	-1.30	First Phoenix MWD Survey
4,966.00	4,963.38	80.59	62.09	Last Phoenix MWD Survey
5,040.00	5,037.29	79.05	65.36	Projection to Bit

Directional Survey

Well Name	Lease	Field Name	Business Unit
BELL LAKE 18 23 34 001H	Bell Lake	BELL LAKE	Mid-Continent

HOBBS OCD

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,525.00	3,550.00	3,550.00, 12/20/2013		

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Wellbore Name	Parent Wellbore	Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Original Hole		89.57

UTM Northing (Y) (ft)	UTM Easting (X) (ft)	UTM Grid Zone

Date	Definitive?	Description	Planned?
	Y	MWD	N

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie In (ft)

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
290	0.43	227.38	290.00	-0.74	-0.80	-0.81	0.15	Gyro MS	Multi-Shot	0.15	1.09	78.41	N
320	0.67	235.74	320.00	-0.91	-1.03	-1.04	0.84	Gyro MS	Multi-Shot	0.80	1.37	27.87	N
409	0.80	281.51	408.99	-1.08	-2.07	-2.08	0.66	Gyro MS	Multi-Shot	0.15	2.33	51.43	N
499	0.73	257.93	498.98	-1.08	-3.24	-3.25	0.36	Gyro MS	Multi-Shot	-0.08	3.42	-26.20	N
588	0.44	240.15	587.98	-1.36	-4.09	-4.10	0.38	Gyro MS	Multi-Shot	-0.33	4.32	-19.98	N
678	0.15	143.41	677.98	-1.63	-4.32	-4.34	0.53	Gyro MS	Multi-Shot	-0.32	4.62	-107.49	N
767	0.22	116.90	766.98	-1.80	-4.10	-4.12	0.12	Gyro MS	Multi-Shot	0.08	4.48	-29.79	N
856	0.38	120.37	855.97	-2.03	-3.70	-3.71	0.18	Gyro MS	Multi-Shot	0.18	4.22	3.90	N
946	0.14	123.81	945.97	-2.24	-3.35	-3.36	0.27	Gyro MS	Multi-Shot	-0.27	4.03	3.82	N
1,035	0.23	165.87	1,034.97	-2.47	-3.21	-3.23	0.18	Gyro MS	Multi-Shot	0.10	4.05	47.26	N
1,125	0.10	145.88	1,124.97	-2.71	-3.12	-3.14	0.16	Gyro MS	Multi-Shot	-0.14	4.14	-22.21	N
1,214	0.22	71.64	1,213.97	-2.72	-2.92	-2.94	0.24	Gyro MS	Multi-Shot	0.13	3.99	-83.42	N
1,287	0.64	29.18	1,286.97	-2.32	-2.59	-2.60	0.69	Gyro MS	Multi-Shot	0.58	3.48	-58.16	N
1,403	1.10	22.20	1,402.96	-0.73	-1.85	-1.86	0.41	Magn MWD	Multi-Shot	0.40	1.99	-6.02	N
1,582	1.30	15.30	1,581.92	2.82	-0.67	-0.64	0.14	Magn MWD	Multi-Shot	0.11	2.90	-3.85	N
1,760	1.40	13.90	1,759.87	6.88	0.39	0.44	0.06	Magn MWD	Multi-Shot	0.06	6.89	-0.79	N
1,939	1.60	11.90	1,938.81	11.45	1.43	1.52	0.12	Magn MWD	Multi-Shot	0.11	11.54	-1.12	N
2,118	1.80	6.00	2,117.73	16.69	2.24	2.36	0.15	Magn MWD	Multi-Shot	0.11	16.84	-3.30	N
2,297	2.20	4.60	2,296.62	22.91	2.81	2.98	0.23	Magn MWD	Multi-Shot	0.22	23.08	-0.78	N
2,476	2.50	6.90	2,475.47	30.21	3.55	3.78	0.18	Magn MWD	Multi-Shot	0.17	30.42	1.28	N
2,655	2.90	11.50	2,654.27	38.52	4.93	5.21	0.25	Magn MWD	Multi-Shot	0.22	38.84	2.57	N
2,835	2.20	14.30	2,834.09	46.33	6.69	7.03	0.39	Magn MWD	Multi-Shot	-0.39	46.81	1.56	N
3,014	1.80	7.70	3,012.98	52.45	7.91	8.31	0.26	Magn MWD	Multi-Shot	-0.22	53.04	-3.69	N
3,192	2.20	9.50	3,190.87	58.59	8.85	9.29	0.23	Magn MWD	Multi-Shot	0.22	59.25	1.01	N
3,372	0.80	2.60	3,370.81	63.25	9.48	9.95	0.78	Magn MWD	Multi-Shot	-0.78	63.96	-3.83	N
3,551	1.30	22.60	3,549.78	66.37	10.31	10.81	0.34	Magn MWD	Multi-Shot	0.28	67.17	11.17	N
3,730	1.80	24.90	3,728.71	70.80	12.28	12.81	0.28	Magn MWD	Multi-Shot	0.28	71.86	1.28	N
3,909	1.90	30.90	3,907.62	75.89	14.99	15.56	0.12	Magn MWD	Multi-Shot	0.06	77.36	3.35	N
4,088	1.90	37.30	4,086.52	80.80	18.31	18.91	0.12	Magn MWD	Multi-Shot	0.00	82.85	3.58	N
4,267	1.70	44.00	4,265.43	85.07	21.95	22.59	0.16	Magn MWD	Multi-Shot	-0.11	87.86	3.74	N
4,446	2.60	67.00	4,444.30	88.57	27.53	28.20	0.69	Magn MWD	Multi-Shot	0.50	92.75	12.85	N

Report Printed: 3/12/2014

Directional Survey

Well Name	Lease	Field Name	Business Unit
BELL LAKE 18 23 34 001H	Bell Lake	BELL LAKE	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,525.00	3,550.00	3,550.00, 12/20/2013		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
4,626	2.70	87.90	4,624.12	90.32	35.53	36.20	0.54	Magn MWD	Multi-Shot	0.06	97.06	11.61	N
4,805	3.40	111.80	4,802.87	88.50	44.67	45.33	0.80	Magn MWD	Multi-Shot	0.39	99.14	13.35	N
4,984	2.90	119.90	4,981.60	84.27	53.52	54.15	0.37	Magn MWD	Multi-Shot	-0.28	99.83	4.53	N
5,166	2.80	115.30	5,163.37	80.08	61.53	62.13	0.14	Magn MWD	Multi-Shot	-0.05	100.99	-2.53	N
5,240	2.80	115.30	5,237.29	78.53	64.80	65.39	0.00	Magn MWD	Multi-Shot	0.00	101.82	0.00	N

Report Printed: 3/12/2014