



PHOENIX
TECHNOLOGY SERVICES

June 19, 2014

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

HOBBS OCD

JUN 23 2014

Dear District 1 - Hobbs

RECEIVED

Re: Chevron North America Exploration ✓
Red Hills 2-25-33 #1H (WB1) ✓
Lea County, NM
API #30-025-41546 ✓
Job No. 1410651

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	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Zak Dawson	1H	1,383	9,710	4/22/14	4/29/14	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,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7012 1570 0001 4365 2087

PHOENIX ENERGY SERVICES INC. SURVEY DATA CERTIFICATION

HOBBS OCD

JUN 23 2014



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER 1410651

OPERATOR **RECEIVED**
Chevron

WELL NAME Red Hills 2-25-33 1H (WB 1)

COUNTY & STATE

Lea County, NM

API WELL NUMBER	30-025-41546
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PROPOSED DIRECTION	359.7
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TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
1,211 ft	1,210.66 ft	0.77	235.02	-10.49	-14.54	GYRO

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
22-Apr-14	1,383 ft	0.53	266.07

SURVEY INSTRUMENT TYPE
APS / QDT

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
29-Apr-14	9,710 ft	1.2	246.95

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
29-Apr-14	9,767 ft	1.2	246.95

Zak Dawson

PRINT YOUR NAME ABOVE

Zak Dawson

SIGN YOUR NAME ABOVE

5/10/2014

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.79
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1 Zak Dawson

DIRECTIONAL DRILLER 1

Keith Scheppler

MWD SUPERVISOR 2 Brian Pina

DIRECTIONAL DRILLER 2

Craig Cannon

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)

HOBBS OCD

DISTRICT I
1625 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

JUN 23 2014

RECEIVED

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 30-025-41544	Pool Code	Pool Name
Property Code	Property Name RED HILLS 2 25 33	Well Number 1H
OGRID No.	Operator Name CHEVRON USA INC	Elevation 3424'

Surface Location

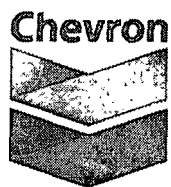
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25-S	33-E		330	SOUTH	340	EAST	LEA

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
A	2	25-S	33-E		330	NORTH	340	EAST	LEA
Dedicated Acres	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=420335.0 N X=746997.3 E LAT.=32.153101° N LONG.=103.535237° W BOTTOM HOLE LOCATION Y=424950.1 N X=746972.8 E CORNER COORDINATES TABLE <table border="1"> <tr> <td>A</td> <td>-</td> <td>Y=425274.1 N, X=745991.3 E</td> </tr> <tr> <td>B</td> <td>-</td> <td>Y=425282.1 N, X=747310.9 E</td> </tr> <tr> <td>C</td> <td>-</td> <td>Y=420007.5 N, X=747339.1 E</td> </tr> <tr> <td>D</td> <td>-</td> <td>Y=419999.0 N, X=746020.6 E</td> </tr> </table>	A	-	Y=425274.1 N, X=745991.3 E	B	-	Y=425282.1 N, X=747310.9 E	C	-	Y=420007.5 N, X=747339.1 E	D	-	Y=419999.0 N, X=746020.6 E	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. Signature _____ Date _____ Printed Name _____ 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 22, 2013 Date of Survey _____ Signature of State Professional Surveyor: _____ RONALD J. EIDSON 3239 Certificate Number: _____ ACK _____
A	-	Y=425274.1 N, X=745991.3 E											
B	-	Y=425282.1 N, X=747310.9 E											
C	-	Y=420007.5 N, X=747339.1 E											
D	-	Y=419999.0 N, X=746020.6 E											



Chevron

Lea County NM (NAD27 NME)

Red Hills 2-25-33

1H

WB1/Job #1410651

Survey: Phoenix MWD Survey

Standard Survey Report

21 May, 2014





Phoenix Technology Services Survey Report



Company:	Chevron	Local Co-ordinate Reference:	Well 1H
Project:	Lea County NM (NAD27 NME)	TVD Reference:	KB @ 3448.50usft (Ensign 153)
Site:	Red Hills 2-25-33	MD Reference:	KB @ 3448.50usft (Ensign 153)
Well:	1H	North Reference:	Grid
Wellbore:	WB1/Job #1410651	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 153)	Database:	GCR DB

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

Site	Red Hills 2-25-33				
Site Position:		Northing:	420,335.00 usft	Latitude:	32° 9' 11.16332 N
From:	Map	Easting:	746,997.30 usft	Longitude:	103° 32' 6.85133 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	1H				
Well Position	+N-S	0.00 usft	Northing:	420,335.00 usft	Latitude: 32° 9' 11.16332 N
	+E-W	0.00 usft	Easting:	746,997.30 usft	Longitude: 103° 32' 6.85133 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,424.00 usft

Wellbore	WB1/Job #1410651				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	04/15/14	7.22	60.06	48,294

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	359.70	

Survey Program	Date	05/21/14			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
41.00	1,211.00	MS Gyro Survey (WB1/Job #1410651)	CB-GYRO-MS	Camera based gyro multishot	
1,383.00	9,767.00	Phoenix MWD Survey (WB1/Job #141065)	MWD	MWD - Standard	

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)
1,211.00	0.77	235.02	1,210.86	-10.49	-14.54	-10.41	0.00	0.00	0.00
Tie-on to MS Gyro Survey									
1,383.00	0.53	266.07	1,382.85	-11.21	-16.28	-11.12	0.24	-0.14	18.05
First Phoenix MWD Survey									
1,562.00	0.63	247.65	1,561.84	-11.64	-18.01	-11.54	0.12	0.06	-10.29
1,741.00	0.73	261.59	1,740.83	-12.18	-20.05	-12.07	0.11	0.06	7.79
1,919.00	0.68	263.26	1,918.81	-12.47	-22.22	-12.35	0.03	-0.03	0.94
2,098.00	0.73	270.26	2,097.80	-12.59	-24.42	-12.46	0.06	0.03	3.91
2,278.00	1.01	265.82	2,277.78	-12.70	-27.15	-12.55	0.16	0.16	-2.47



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 2-25-33
Well: 1H
Wellbore: WB1/Job #1410651
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3448.50usft (Ensign 153)
MD Reference: KB @ 3448.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
2,457.00	0.90	259.64	2,456.75	-13.06	-30.10	-12.91	0.08	-0.06	-3.45
2,635.00	1.22	274.62	2,634.72	-13.16	-33.37	-12.99	0.24	0.18	8.42
2,814.00	1.43	272.22	2,813.67	-12.92	-37.50	-12.73	0.12	0.12	-1.34
2,993.00	0.90	252.84	2,992.64	-13.25	-41.07	-13.04	0.36	-0.30	-10.83
3,172.00	1.34	172.89	3,171.61	-15.74	-42.16	-15.52	0.83	0.25	-44.66
3,351.00	2.04	84.87	3,350.56	-17.54	-38.73	-17.33	1.34	0.39	-49.17
3,530.00	1.07	25.13	3,529.50	-15.74	-34.84	-15.55	0.98	-0.54	-33.37
3,709.00	1.28	334.73	3,708.47	-12.42	-34.99	-12.23	0.57	0.12	-28.16
3,888.00	1.35	334.68	3,887.42	-8.70	-36.74	-8.51	0.04	0.04	-0.03
4,067.00	1.41	333.37	4,066.37	-4.83	-38.63	-4.63	0.04	0.03	-0.73
4,246.00	1.66	333.62	4,245.30	-0.54	-40.77	-0.32	0.14	0.14	0.14
4,425.00	1.15	88.20	4,424.27	1.84	-40.13	2.05	1.33	-0.28	64.01
4,605.00	2.30	81.26	4,604.19	2.45	-34.75	2.63	0.65	0.64	-3.86
4,784.00	1.85	31.88	4,783.08	5.45	-29.67	5.60	0.99	-0.25	-27.59
4,978.00	1.87	18.71	4,976.98	11.11	-27.00	11.25	0.22	0.01	-6.79
5,147.00	0.34	10.05	5,145.95	14.21	-26.03	14.35	0.91	-0.91	-5.12
5,326.00	0.33	324.67	5,324.94	15.15	-26.24	15.29	0.14	-0.01	-25.35
5,506.00	0.31	317.52	5,504.94	15.94	-26.87	16.08	0.02	-0.01	-3.97
5,684.00	0.33	312.60	5,682.94	16.64	-27.57	16.78	0.02	0.01	-2.76
5,863.00	0.40	325.43	5,861.93	17.50	-28.30	17.65	0.06	0.04	7.17
6,042.00	0.36	305.25	6,040.93	18.34	-29.12	18.49	0.08	-0.02	-11.27
6,221.00	0.42	296.94	6,219.93	18.96	-30.16	19.12	0.05	0.03	-4.64
6,400.00	0.36	311.12	6,398.92	19.63	-31.17	19.79	0.06	-0.03	7.92
6,579.00	0.53	287.18	6,577.92	20.24	-32.38	20.41	0.14	0.09	-13.37
6,758.00	0.43	282.38	6,756.91	20.63	-33.83	20.81	0.06	-0.06	-2.68
6,937.00	0.81	172.45	6,935.90	19.52	-34.32	19.70	0.58	0.21	-61.41
7,117.00	1.26	171.89	7,115.87	16.30	-33.87	16.48	0.25	0.25	-0.31
7,295.00	2.12	139.18	7,293.80	11.87	-31.45	12.04	0.71	0.48	-18.38
7,474.00	2.24	137.56	7,472.67	6.79	-26.92	6.93	0.08	0.07	-0.91
7,653.00	2.55	141.97	7,651.51	1.07	-22.11	1.18	0.20	0.17	2.46
7,832.00	1.74	135.88	7,830.39	-4.02	-17.76	-3.93	0.47	-0.45	-3.40
8,011.00	0.19	258.73	8,009.36	-6.03	-16.16	-5.94	1.03	-0.87	68.63
8,190.00	0.46	178.97	8,188.36	-6.81	-16.44	-6.72	0.26	0.15	-44.56
8,368.00	0.34	159.40	8,366.35	-8.01	-16.24	-7.93	0.10	-0.07	-10.99
8,547.00	0.39	166.04	8,545.35	-9.10	-15.91	-9.02	0.04	0.03	3.71
8,726.00	0.48	145.45	8,724.34	-10.31	-15.33	-10.23	0.10	0.05	-11.50
8,905.00	0.64	137.24	8,903.34	-11.66	-14.23	-11.59	0.10	0.09	-4.59
9,084.00	0.56	142.13	9,082.33	-13.09	-13.01	-13.02	0.05	-0.04	2.73
9,263.00	0.09	156.56	9,261.32	-13.91	-12.42	-13.84	0.26	-0.26	8.06
9,442.00	0.47	246.65	9,440.32	-14.33	-13.04	-14.26	0.27	0.21	50.33
9,621.00	0.87	245.04	9,619.31	-15.19	-14.95	-15.11	0.22	0.22	-0.90
9,710.00	1.20	246.95	9,708.29	-15.84	-16.42	-15.76	0.37	0.37	2.15
9,767.00	1.20	246.95	9,765.28	-16.31	-17.51	-16.22	0.00	0.00	0.00

PTB, WB1



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 2-25-33
Well: 1H
Wellbore: WB1/Job #1410651
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3448.50usft (Ensign 153)
MD Reference: KB @ 3448.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
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Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,211.00	1,210.86	-10.49	-14.54	Tie-on to MS Gyro Survey
1,383.00	1,382.85	-11.21	-16.28	First Phoenix MWD Survey
9,767.00	9,765.28	-16.31	-17.51	PTB, WB1

Checked By: _____ Approved By: _____ Date: _____



PHOENIX
TECHNOLOGY SERVICES

June 19, 2014

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

Dear District 1 - Hobbs

Re: Chevron North America Exploration
Red Hills 2-25-33 #1H (WB2)
Lea County, NM
API #30-025-41546
Job No. 1410651

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	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Zak Dawson	1H	8,942	13,891	5/2/14	5/10/14	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,

Dana Robinson

Dana Robinson
Operations Administrator

Certified mail receipt number: 7012 1570 0001 4365 2087

**PHOENIX ENERGY SERVICES INC.
SURVEY DATA CERTIFICATION**



PHOENIX JOB NUMBER 1410651

OPERATOR Chevron

WELL NAME Red Hills 2-25-33 1H (WB2)

COUNTY & STATE

Lea County, NM

API WELL NUMBER	30-025-41546
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PROPOSED DIRECTION	359.7
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TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8,905 ft	8,903.34 ft	0.64	137.24	-11.66	-14.23	PHX MWD

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
2-May-14	8,942 ft	0.74	129.77

SURVEY INSTRUMENT TYPE
APS / QDT

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
10-May-14	13,891 ft	92.15	358.08

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
10-May-14	13,942 ft	92.15	358.08

Zak Dawson

PRINT YOUR NAME ABOVE

Zak Dawson

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.79
DECLINATION OR GRID	GRID

5/10/2014

TODAY'S DATE

MWD SUPERVISOR 1 Zak Dawson

DIRECTIONAL DRILLER 1

Keith Scheppler

MWD SUPERVISOR 2 Brian Pina

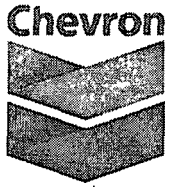
DIRECTIONAL DRILLER 2

Craig Cannon

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)



Chevron

Lea County NM (NAD27 NME)

Red Hills 2-25-33

1H

WB2/Job #1410651

Survey: Phoenix MWD Survey

Standard Survey Report

21 May, 2014





Phoenix Technology Services Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 2-25-33
Well: 1H
Wellbore: WB2/Job #1410651
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3448.50usft (Ensign 153)
MD Reference: KB @ 3448.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Project Lea County NM (NAD27 NME)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Red Hills 2-25-33

Site Position:
From: Map
Position Uncertainty: 0.00 usft
Northing: 420,335.00 usft
Easting: 746,997.30 usft
Slot Radius: 13-3/16 "
Latitude: 32° 9' 11.16332 N
Longitude: 103° 32' 6.85133 W
Grid Convergence: 0.42 °

Well 1H
Well Position
+N/-S 0.00 usft
+E/-W 0.00 usft
Position Uncertainty 0.00 usft
Northing: 420,335.00 usft
Easting: 746,997.30 usft
Wellhead Elevation: usft
Latitude: 32° 9' 11.16332 N
Longitude: 103° 32' 6.85133 W
Ground Level: 3,424.00 usft

Wellbore WB2/Job #1410651

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	04/30/14	7.21	60.06	48,290

Design Surveys (Ensign 153)

Audit Notes:

Version: 1.0
Phase: ACTUAL
Tie On Depth: 8,905.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.70

Survey Program Date 05/21/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
41.00	1,211.00	MS Gyro Survey (WB1/Job #1410651)	CB-GYRO-MS	Camera based gyro multishot
1,383.00	8,905.00	Phoenix MWD Survey (WB1/Job #141065)	MWD	MWD - Standard
8,905.00	13,942.00	Phoenix MWD Survey (WB2/Job #141065)	MWD	MWD - Standard

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)
8,905.00	0.64	137.24	8,903.34	-11.66	-14.23	-11.59	0.00	0.00	0.00
Tie-on to WB1									
8,942.00	0.74	129.77	8,940.33	-11.97	-13.91	-11.89	0.36	0.27	-20.19
First Phoenix MWD Survey WB#2									
8,986.00	0.70	124.50	8,984.33	-12.30	-13.47	-12.23	0.18	-0.09	-11.98
9,076.00	7.00	355.09	9,074.12	-7.14	-13.48	-7.07	8.29	7.00	-143.79
9,120.00	11.70	349.11	9,117.52	-0.09	-14.56	-0.01	10.89	10.68	-13.59
9,165.00	16.79	345.20	9,161.13	10.69	-17.08	10.78	11.51	11.31	-8.69



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 2-25-33
Well: 1H
Wellbore: WB2/Job #1410651
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3448.50usft (Ensign 153)
MD Reference: KB @ 3448.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
9,210.00	22.26	343.39	9,203.52	25.15	-21.18	25.26	12.23	12.16	-4.02
9,255.00	27.14	344.51	9,244.39	43.22	-26.36	43.36	10.89	10.84	2.49
9,299.00	32.21	346.67	9,282.61	64.31	-31.75	64.48	11.77	11.52	4.91
9,344.00	36.80	349.03	9,319.69	89.23	-37.08	89.42	10.62	10.20	5.24
9,389.00	41.43	350.09	9,354.59	117.14	-42.21	117.36	10.40	10.29	2.36
9,434.00	45.60	349.65	9,387.22	147.64	-47.66	147.89	9.29	9.27	-0.98
9,478.00	50.46	349.00	9,416.63	179.77	-53.73	180.05	11.10	11.05	-1.48
9,523.00	56.01	349.49	9,443.56	215.18	-60.45	215.49	12.36	12.33	1.09
9,568.00	62.06	351.21	9,466.70	253.20	-66.89	253.55	13.84	13.44	3.82
9,613.00	68.52	353.34	9,485.50	293.69	-72.37	294.06	14.98	14.36	4.73
9,658.00	74.11	357.13	9,499.92	336.14	-75.88	336.54	14.76	12.42	8.42
9,702.00	80.17	0.32	9,509.71	379.00	-76.82	379.40	15.48	13.77	7.25
9,722.00	83.41	0.97	9,512.57	398.80	-76.60	399.19	16.52	16.20	3.25
9,789.00	89.97	1.12	9,516.43	465.64	-75.38	466.02	9.79	9.79	0.22
9,879.00	91.68	2.03	9,515.14	555.59	-72.91	555.96	2.15	1.90	1.01
9,969.00	93.36	2.52	9,511.18	645.43	-69.34	645.78	1.94	1.87	0.54
10,058.00	92.07	2.90	9,506.96	734.23	-65.13	734.56	1.51	-1.45	0.43
10,148.00	90.87	3.32	9,504.66	824.06	-60.25	824.37	1.41	-1.33	0.47
10,237.00	88.07	1.90	9,505.48	912.95	-56.20	913.24	3.53	-3.15	-1.60
10,327.00	88.24	2.13	9,508.38	1,002.85	-53.04	1,003.12	0.32	0.19	0.26
10,416.00	87.65	0.81	9,511.57	1,091.76	-50.76	1,092.01	1.62	-0.66	-1.48
10,506.00	90.48	2.88	9,513.04	1,181.69	-47.86	1,181.93	3.90	3.14	2.30
10,595.00	90.73	2.54	9,512.10	1,270.59	-43.65	1,270.80	0.47	0.28	-0.38
10,685.00	90.59	1.39	9,511.06	1,360.53	-40.56	1,360.72	1.29	-0.16	-1.28
10,775.00	90.56	0.61	9,510.16	1,450.51	-38.99	1,450.69	0.87	-0.03	-0.87
10,864.00	91.43	0.52	9,508.61	1,539.49	-38.12	1,539.67	0.98	0.98	-0.10
10,954.00	92.38	0.62	9,505.62	1,629.43	-37.22	1,629.61	1.06	1.06	0.11
11,043.00	92.10	1.10	9,502.14	1,718.35	-35.89	1,718.52	0.62	-0.31	0.54
11,133.00	90.28	0.62	9,500.27	1,808.32	-34.54	1,808.48	2.09	-2.02	-0.53
11,222.00	90.64	0.73	9,499.56	1,897.31	-33.49	1,897.46	0.42	0.40	0.12
11,311.00	90.87	359.71	9,498.38	1,986.30	-33.15	1,986.45	1.17	0.26	-1.15
11,401.00	91.82	359.51	9,496.27	2,076.27	-33.76	2,076.42	1.08	1.06	-0.22
11,490.00	91.99	358.03	9,493.31	2,165.20	-35.67	2,165.36	1.67	0.19	-1.66
11,580.00	90.78	358.22	9,491.14	2,255.13	-38.61	2,255.30	1.36	-1.34	0.21
11,669.00	90.14	357.14	9,490.42	2,344.05	-42.21	2,344.24	1.41	-0.72	-1.21
11,759.00	89.83	357.67	9,490.45	2,433.96	-46.29	2,434.16	0.68	-0.34	0.59
11,849.00	88.49	357.17	9,491.77	2,523.85	-50.34	2,524.08	1.59	-1.49	-0.56
11,938.00	88.52	358.35	9,494.09	2,612.75	-53.82	2,613.00	1.33	0.03	1.33
12,027.00	89.30	359.72	9,495.78	2,701.72	-55.32	2,701.97	1.77	0.88	1.54
12,117.00	90.50	1.38	9,495.94	2,791.71	-54.45	2,791.96	2.28	1.33	1.84
12,206.00	89.86	1.98	9,495.66	2,880.67	-51.84	2,880.90	0.99	-0.72	0.67
12,296.00	90.42	2.10	9,495.44	2,970.61	-48.64	2,970.83	0.64	0.62	0.13
12,386.00	91.15	1.78	9,494.21	3,060.55	-45.59	3,060.75	0.89	0.81	-0.36
12,475.00	90.76	1.83	9,492.72	3,149.50	-42.79	3,149.68	0.44	-0.44	0.06



Phoenix Technology Services
Survey Report



Company: Chevron
Project: Lea County NM (NAD27 NME)
Site: Red Hills 2-25-33
Well: 1H
Wellbore: WB2/Job #1410651
Design: Surveys (Ensign 153)

Local Co-ordinate Reference: Well 1H
TVD Reference: KB @ 3448.50usft (Ensign 153)
MD Reference: KB @ 3448.50usft (Ensign 153)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB

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)
12,565.00	90.78	1.94	9,491.51	3,239.44	-39.83	3,239.60	0.12	0.02	0.12
12,651.00	90.70	2.10	9,490.40	3,325.38	-36.80	3,325.53	0.21	-0.09	0.19
12,745.00	91.20	1.92	9,488.84	3,419.31	-33.50	3,419.44	0.57	0.53	-0.19
12,835.00	91.40	1.00	9,486.80	3,509.26	-31.21	3,509.37	1.05	0.22	-1.02
12,924.00	89.69	1.69	9,485.96	3,598.22	-29.12	3,598.33	2.07	-1.92	0.78
13,013.00	89.33	0.54	9,486.72	3,687.20	-27.39	3,687.29	1.35	-0.40	-1.29
13,103.00	89.66	359.78	9,487.51	3,777.20	-27.14	3,777.29	0.92	0.37	-0.84
13,192.00	90.17	359.13	9,487.64	3,866.19	-27.98	3,866.29	0.93	0.57	-0.73
13,282.00	90.45	358.46	9,487.15	3,956.17	-29.88	3,956.27	0.81	0.31	-0.74
13,371.00	90.64	358.23	9,486.31	4,045.13	-32.45	4,045.24	0.34	0.21	-0.26
13,461.00	91.62	357.96	9,484.53	4,135.06	-35.44	4,135.19	1.13	1.09	-0.30
13,550.00	89.27	358.22	9,483.84	4,224.00	-38.40	4,224.14	2.66	-2.64	0.29
13,639.00	89.19	357.56	9,485.04	4,312.93	-41.68	4,313.09	0.75	-0.09	-0.74
13,729.00	91.03	357.98	9,484.87	4,402.86	-45.18	4,403.04	2.10	2.04	0.47
13,818.00	91.96	358.25	9,482.54	4,491.78	-48.11	4,491.97	1.09	1.04	0.30
13,891.00	92.15	358.08	9,479.93	4,564.70	-50.44	4,564.90	0.35	0.26	-0.23
Last Phoenix MWD Survey WB#2									
13,942.00	92.15	358.08	9,478.01	4,615.63	-52.15	4,615.84	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,905.00	8,903.34	-11.66	-14.23	Tie-on to WB1
8,942.00	8,940.33	-11.97	-13.91	First Phoenix MWD Survey WB#2
13,891.00	9,479.93	4,564.70	-50.44	Last Phoenix MWD Survey WB#2
13,942.00	9,478.01	4,615.63	-52.15	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 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	Pool Name
Property Code	Property Name RED HILLS 2 25 33	Well Number 1H
OGRID No.	Operator Name CHEVRON USA INC	Elevation 3424'

Surface Location

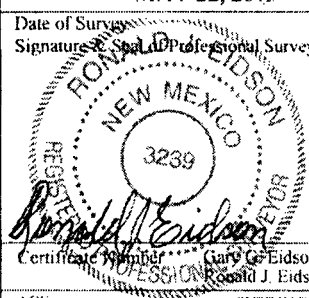
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	25-S	33-E		330	SOUTH	340	EAST	LEA

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
A	2	25-S	33-E		330	NORTH	340	EAST	LEA

Dedicated Acres	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

GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=420335.0 N X=746997.3 E LAT.=32.153101° N LONG.=103.535237° W BOTTOM HOLE LOCATION Y=424950.1 N X=746972.8 E CORNER COORDINATES TABLE <table> <tr> <td>A</td> <td>-</td> <td>Y=425274.1 N, X=745991.3 E</td> </tr> <tr> <td>B</td> <td>-</td> <td>Y=425282.1 N, X=747310.9 E</td> </tr> <tr> <td>C</td> <td>-</td> <td>Y=420007.5 N, X=747339.1 E</td> </tr> <tr> <td>D</td> <td>-</td> <td>Y=419999.0 N, X=746020.6 E</td> </tr> </table>	A	-	Y=425274.1 N, X=745991.3 E	B	-	Y=425282.1 N, X=747310.9 E	C	-	Y=420007.5 N, X=747339.1 E	D	-	Y=419999.0 N, X=746020.6 E	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. Signature _____ Date _____ Printed Name _____ 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 22, 2013 Date of Survey _____ Signature of State Professional Surveyor:  Certificate Number: Gary G. Eidson 12641 Ronald J. Eidson 3239 ACK _____ JWSC W.O. 13.11.0541
A	-	Y=425274.1 N, X=745991.3 E											
B	-	Y=425282.1 N, X=747310.9 E											
C	-	Y=420007.5 N, X=747339.1 E											
D	-	Y=419999.0 N, X=746020.6 E											