

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM17224

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
RUSTLER BLUFF 19 24 29 FED 3H

2. Name of Operator
CHEVRON USA INC

Contact: BRITANY CORTEZ
E-Mail: bcortez@chevron.com

9. API Well No.
30-015-42593

3a. Address
15 SMITH ROAD
MIDLAND, TX 79705

3b. Phone No. (include area code)
Ph: 432-687-7415

10. Field and Pool, or Exploratory
PIERCE CROSSING; BNE SPRG

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 19 T24S R29E Mer NMP 330FSL 1490FWL

11. County or Parish, and State
EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Production Start-up
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Completion for new well ***Completion summary, tbq summary, directional survey, WBD are attached

1/10/15- MIRU

1/11/15- Perforate: 12,481-12,764

1/12/15- Perforate: 12105-12388; 11729-12012; 11353-11636; 10977-11260; 10601- 10884

1/13/15- Perforate: 10225-10508; 9849-10132; 9473-9756; 9097-9380; 8721-9004

1/11/15 THROUGH 1/14/15- Frac w/ Total Prop: 3,536,560 lbs; 20/40: 3,194,420 lbs; 16/30: 342,140 lbs; Fr. Water: 18,866 bbls; Aquavis 20g: 4,286 bbls; Water Frac: 10,344 bbls; Dyna Frac: 8,742 bbls; Delta Frac: 18,619 bbls; Acid: 857 bbls

1/21/15- 2 7/8" tbq set @ 7558'

Accepted for record

NMOCD

5/28/15

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 18 2015

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #300955 verified by the BLM Well Information System
For CHEVRON USA INC, sent to the Carlsbad

Name (Printed/Typed) BRITANY CORTEZ

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 05/07/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #300955 that would not fit on the form

32. Additional remarks, continued

1/26/15- Release Rig

4/15/15- On 24 hr OPT. Flowing 591 Oil, 965 Water, 1028 Gas, GOR 1739 SCF/STB

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 18 2015

Phoenix Technology Services
SURVEY DATA CERTIFICATION

RECEIVED



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1412116

OPERATOR

Chevron

WELL NAME

Rustler Bluff 19/24 29 Federal 3H

COUNTY & STATE

Eddy County, New Mexico

API WELL NUMBER

30-015-42593

PROPOSED DIRECTION

5.21°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
7,311.00 ft	7309.60 ft	1.17°	289.33°	23.45 ft S	7.82 ft W	Phoenix MWD

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
13-Nov-14	7,507.00 ft	0.92°	320.12°

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
21-Nov-14	12,997.00 ft	86.64°	3.01°

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
21-Nov-14	13,058.00 ft	85.96°	3.95°

Benjamin J. Maulding

PRINT YOUR NAME ABOVE

Benjamin J. Maulding

SIGN YOUR NAME ABOVE

11/22/2014

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.39
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Ben Maulding

DIRECTIONAL DRILLER 1

John Barnett

MWD SUPERVISOR 2

Joe Owens

DIRECTIONAL DRILLER 2

Carl Oetken

12329 Cutten Rd.,

Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)

Chevron

Eddy County, NM (NAD27 NME)

Rustler Bluff 19 24 29 Federal

3H

Wellbore #2 Job #1412116

Survey: Phoenix MWD Surveys

Standard Survey Report

22 November, 2014

Survey Report

Company:	Chevron	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 2949.00usft (Ensign 767)
Site:	Rustler Bluff 19 24 29 Federal	MD Reference:	RKB @ 2949.00usft (Ensign 767)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #2 Job #1412116	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 767)	Database:	Compass 5000 GCR

Project:	Eddy 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:		Rustler Bluff 19 24 29 Federal			
Site Position:		Northing:	435,360.00 usft	Latitude:	32° 11' 47.58064 N
From:	Map	Easting:	594,822.00 usft	Longitude:	104° 1' 36.46420 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.16 "

Well	3H					
Well Position	+N/-S	0.00 usft	Northing:	435,360.00 usft	Latitude:	32° 11' 47.58064 N
	+E/-W	0.00 usft	Easting:	594,822.00 usft	Longitude:	104° 1' 36.46420 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	2,918.00 usft

Wellbore	Wellbore #2 Job #1412116				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2014	10/24/2014	7.55°	59.99	48,170

Design	Surveys (Ensign 767)				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	7,311.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	5.21	

Survey Program	Date	11/22/2014			
From	To	Survey (Wellbore)	Tool Name	Description	
467.00	7,311.00	Phoenix MWD Surveys (Wellbore #1 Job 1	PHX+MWD+BGGM	PHX+MWD+BGGM v3: standard declination	
7,507.00	13,058.00	Phoenix MWD Surveys (Wellbore #2 Job #	PHX+MWD+BGGM	PHX+MWD+BGGM v3: standard declination	

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
7,311.00	1.17	289.33	7,309.60	-23.45	-7.82	-24.06	0.00	0.00	0.00	
Tie-in to WB1										
7,507.00	0.92	320.12	7,505.57	-21.58	-10.72	-22.46	0.31	-0.13	15.71	
WB2 First Phoenix Survey										
7,542.00	1.78	336.56	7,540.56	-20.87	-11.11	-21.79	2.67	2.46	46.97	
7,633.00	9.38	19.51	7,631.08	-12.57	-9.20	-13.35	8.97	8.35	47.20	
7,697.00	9.30	15.81	7,694.23	-2.67	-6.05	-3.21	0.95	-0.13	-5.78	
7,792.00	9.42	24.48	7,787.97	11.79	-0.73	11.67	1.49	0.13	9.13	
7,887.00	8.66	36.95	7,881.80	24.58	6.79	25.10	2.21	-0.80	13.13	

Survey Report

Company:	Chevron	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 2949.00usft (Ensign 767)
Site:	Rustler Bluff 19 24 29 Federal	MD Reference:	RKB @ 2949.00usft (Ensign 767)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #2 Job #1412116	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 767)	Database:	Compass 5000 GCR

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)
7,919.00	8.22	34.72	7,913.45	28.39	9.54	29.14	1.71	-1.38	-6.97
7,951.00	9.53	35.06	7,945.07	32.44	12.37	33.42	4.10	4.09	1.06
7,982.00	11.87	35.29	7,975.53	37.14	15.68	38.41	7.55	7.55	0.74
8,014.00	15.01	31.53	8,006.65	43.36	19.75	44.97	10.18	9.81	-11.75
8,046.00	17.64	27.07	8,037.36	51.21	24.13	53.19	9.10	8.22	-13.94
8,077.00	20.32	23.29	8,066.67	60.34	28.39	62.67	9.51	8.65	-12.19
8,109.00	23.54	24.15	8,096.35	71.28	33.20	74.00	10.11	10.06	2.69
8,141.00	26.10	26.61	8,125.39	83.40	38.97	86.60	8.62	8.00	7.69
8,173.00	29.47	27.38	8,153.70	96.69	45.75	100.44	10.59	10.53	2.41
8,204.00	33.81	27.19	8,180.09	111.14	53.20	115.51	14.00	14.00	-0.61
8,236.00	37.87	25.88	8,206.02	127.90	61.56	132.96	12.91	12.69	-4.09
8,268.00	41.98	26.57	8,230.56	146.32	70.64	152.13	12.92	12.84	2.16
8,298.00	45.63	25.64	8,252.21	164.97	79.77	171.53	12.35	12.17	-3.10
8,329.00	49.40	25.15	8,273.14	185.62	89.57	192.98	12.22	12.16	-1.58
8,361.00	51.98	23.73	8,293.41	208.16	99.80	216.36	8.76	8.06	-4.44
8,392.00	55.64	23.26	8,311.71	231.10	109.77	240.11	11.87	11.81	-1.52
8,424.00	59.64	23.00	8,328.84	255.95	120.39	265.83	12.52	12.50	-0.81
8,456.00	61.15	22.91	8,344.64	281.57	131.24	292.32	4.73	4.72	-0.28
8,487.00	63.28	22.84	8,359.09	306.84	141.90	318.45	6.87	6.87	-0.23
8,519.00	65.62	22.26	8,372.89	333.50	152.97	346.01	7.49	7.31	-1.81
8,551.00	67.68	22.08	8,385.58	360.70	164.05	374.11	6.46	6.44	-0.56
8,583.00	71.09	21.73	8,396.84	388.49	175.23	402.80	10.71	10.66	-1.09
8,614.00	74.14	21.55	8,406.10	415.99	186.13	431.17	9.85	9.84	-0.58
8,646.00	77.80	21.03	8,413.86	444.91	197.40	460.99	11.55	11.44	-1.63
8,678.00	82.60	20.21	8,419.31	474.41	208.50	491.39	15.21	15.00	-2.56
8,771.00	90.67	19.53	8,424.76	561.65	240.03	581.13	8.71	8.68	-0.73
8,866.00	90.31	19.47	8,423.95	651.20	271.74	673.19	0.38	-0.38	-0.06
8,961.00	90.22	20.94	8,423.51	740.35	304.55	764.95	1.55	-0.09	1.55
9,056.00	89.64	20.38	8,423.62	829.24	338.07	856.51	0.85	-0.61	-0.59
9,151.00	88.69	18.84	8,425.01	918.72	369.95	948.51	1.90	-1.00	-1.62
9,245.00	88.18	15.45	8,427.58	1,008.49	397.64	1,040.43	3.65	-0.54	-3.61
9,340.00	87.17	12.30	8,431.43	1,100.63	420.40	1,134.26	3.48	-1.06	-3.32
9,434.00	87.65	10.59	8,435.68	1,192.66	439.04	1,227.60	1.89	0.51	-1.82
9,528.00	87.84	8.62	8,439.38	1,285.27	454.71	1,321.25	2.10	0.20	-2.10
9,623.00	88.38	5.47	8,442.51	1,379.49	466.35	1,416.14	3.36	0.57	-3.32
9,717.00	89.24	3.68	8,444.46	1,473.17	473.85	1,510.11	2.11	0.91	-1.90
9,812.00	89.72	1.80	8,445.33	1,568.05	478.39	1,605.01	2.04	0.51	-1.98
9,907.00	89.97	358.58	8,445.58	1,663.04	478.70	1,699.63	3.40	0.26	-3.39
10,001.00	91.01	357.30	8,444.78	1,756.97	475.32	1,792.87	1.75	1.11	-1.36
10,095.00	89.86	357.21	8,444.07	1,850.86	470.82	1,885.96	1.23	-1.22	-0.10
10,190.00	90.89	357.40	8,443.44	1,945.75	466.35	1,980.06	1.10	1.08	0.20
10,284.00	91.20	356.95	8,441.73	2,039.62	461.72	2,073.12	0.58	0.33	-0.48
10,379.00	91.48	357.93	8,439.51	2,134.49	457.48	2,167.22	1.07	0.29	1.03

Survey Report

Company:	Chevron	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 2949.00usft (Ensign 767)
Site:	Rustler Bluff 19 24 29 Federal	MD Reference:	RKB @ 2949.00usft (Ensign 767)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #2 Job #1412116	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 767)	Database:	Compass 5000 GCR

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)
10,474.00	91.18	358.69	8,437.30	2,229.43	454.68	2,261.50	0.86	-0.32	0.80
10,569.00	91.18	358.93	8,435.35	2,324.39	452.71	2,355.89	0.25	0.00	0.25
10,664.00	91.17	358.51	8,433.40	2,419.34	450.59	2,450.26	0.44	-0.01	-0.44
10,759.00	90.70	358.32	8,431.85	2,514.29	447.96	2,544.58	0.53	-0.49	-0.20
10,855.00	89.24	356.01	8,431.90	2,610.17	443.21	2,639.63	2.85	-1.52	-2.41
10,950.00	89.58	356.72	8,432.88	2,704.97	437.19	2,733.49	0.83	0.36	0.75
11,044.00	89.19	356.65	8,433.89	2,798.81	431.75	2,826.45	0.42	-0.41	-0.07
11,140.00	89.78	358.01	8,434.75	2,894.70	427.28	2,921.54	1.54	0.61	1.42
11,235.00	89.55	358.60	8,435.30	2,989.65	424.47	3,015.85	0.67	-0.24	0.62
11,330.00	90.00	358.28	8,435.68	3,084.62	421.89	3,110.18	0.58	0.47	-0.34
11,425.00	91.85	359.18	8,434.14	3,179.58	419.78	3,204.56	2.17	1.95	0.95
11,521.00	91.71	359.06	8,431.16	3,275.52	418.31	3,299.97	0.19	-0.15	-0.13
11,616.00	90.42	358.85	8,429.40	3,370.48	416.57	3,394.39	1.38	-1.36	-0.22
11,711.00	91.46	359.14	8,427.84	3,465.45	414.91	3,488.81	1.14	1.09	0.31
11,805.00	90.59	358.66	8,426.16	3,559.42	413.10	3,582.23	1.06	-0.93	-0.51
11,901.00	90.14	359.80	8,425.55	3,655.41	411.81	3,677.70	1.28	-0.47	1.19
11,994.00	90.50	2.00	8,425.03	3,748.39	413.27	3,770.43	2.40	0.39	2.37
12,088.00	91.23	2.06	8,423.61	3,842.32	416.60	3,864.28	0.78	0.78	0.06
12,184.00	90.98	2.47	8,421.76	3,938.23	420.40	3,960.13	0.50	-0.26	0.43
12,278.00	90.67	3.25	8,420.40	4,032.10	425.09	4,054.04	0.89	-0.33	0.83
12,372.00	89.78	2.79	8,420.03	4,125.97	430.04	4,147.97	1.07	-0.95	-0.49
12,468.00	89.72	2.86	8,420.45	4,221.85	434.77	4,243.89	0.10	-0.06	0.07
12,562.00	89.92	1.86	8,420.75	4,315.77	438.64	4,337.77	1.08	0.21	-1.06
12,658.00	89.22	1.43	8,421.47	4,411.72	441.40	4,433.58	0.86	-0.73	-0.45
12,754.00	88.99	0.97	8,422.97	4,507.69	443.41	4,529.33	0.54	-0.24	-0.48
12,849.00	88.35	1.37	8,425.17	4,602.65	445.35	4,624.07	0.79	-0.67	0.42
12,944.00	87.23	2.19	8,428.84	4,697.53	448.29	4,718.83	1.46	-1.18	0.86
12,997.00	86.64	3.01	8,431.67	4,750.40	450.69	4,771.70	1.90	-1.11	1.55
WB2 Final Phoenix Survey									
13,058.00	85.96	3.95	8,435.61	4,811.15	454.39	4,832.54	1.90	-1.11	1.54
WB2 Projection to TD									

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,311.00	7,309.60	-23.45	-7.82	Tie-in to WB1
7,507.00	7,505.57	-21.58	-10.72	WB2 First Phoenix Survey
12,997.00	8,431.67	4,750.40	450.69	WB2 Final Phoenix Survey
13,058.00	8,435.61	4,811.15	454.39	WB2 Projection to TD

Checked By: _____ Approved By: _____ Date: _____

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1412116

OPERATOR

Chevron

WELL NAME

Rustler Bluff 19/24/29 Federal 3H

COUNTY & STATE

Eddy County, New Mexico

API WELL NUMBER

30-015-42593

PROPOSED DIRECTION

359:38°

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
0.00 ft	.00 ft	0.00°	0.00°	.00 ft	.00 ft	Surface

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
30-Oct-14	467.00 ft	1.58°	213.82°

SURVEY INSTRUMENT

TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
9-Nov-14	8,328.00 ft	51.32°	320.90°

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
9-Nov-14	8,383.00 ft	54.91°	330.30°

Benjamin J. Maulding

PRINT YOUR NAME ABOVE

Benjamin J. Maulding

SIGN YOUR NAME ABOVE

11/12/2014

TODAY'S DATE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	
7.39	
DECLINATION OR GRID	GRID

MWD SUPERVISOR 1

Ben Maulding

DIRECTIONAL DRILLER 1

John Barnett

MWD SUPERVISOR 2

Joe Owens

DIRECTIONAL DRILLER 2

Carl Oetken

12329 Cutten Rd., Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)

Chevron

Eddy County, NM (NAD27 NME)

Rustler Bluff 19 24 29 Federal

3H

Wellbore #1 Job 1412116

Survey: Phoenix MWD Surveys

Standard Survey Report

22 November, 2014

Survey Report

Company:	Chevron	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	RKB @ 2949.00usft (Ensign 767)
Site:	Rustler Bluff 19 24 29 Federal	MD Reference:	RKB @ 2949.00usft (Ensign 767)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #1 Job 1412116	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 767)	Database:	Compass 5000 GCR

Project:	Eddy 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:	Rustler Bluff 19 24 29 Federal		
Site Position:	Northing:	435,360.00 usft	Latitude: 32° 11' 47.58064 N
From: Map	Easting:	594,822.00 usft	Longitude: 104° 1' 36.46420 W
Position Uncertainty:	0.00 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.16 °

Well:	3H		
Well Position	+N-S	0.00 usft	Northing: 435,360.00 usft
	+E-W	0.00 usft	Easting: 594,822.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Ground Level:	2,918.00 usft

Wellbore:	Wellbore #1 Job 1412116		
Magnetics:	Model Name	Sample Date	Declination
	BGGM2014	10/24/2014	7.55
			59.99
			48,170

Design:	Surveys (Ensign 767)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			359.38

Survey Program	Date: 11/22/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
467.00	8,383.00	Phoenix MWD Surveys (Wellbore #1 Job 1	PHX+MWD+BGGM
			PHX+MWD+BGGM v3: standard declination

Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(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	
467.00	1.58	213.82	466.94	-5.35	-3.58	-5.31	0.34	0.34	0.00	
WB1 First Phoenix Survey										
560.00	1.52	208.26	559.91	-7.50	-4.88	-7.45	0.17	-0.06	-5.98	
766.00	1.59	193.39	765.83	-12.69	-6.84	-12.61	0.20	0.03	-7.22	
947.00	1.48	185.88	946.77	-17.46	-7.66	-17.37	0.13	-0.06	-4.15	
1,137.00	1.28	190.28	1,136.71	-21.95	-8.28	-21.86	0.13	-0.12	2.32	
1,327.00	1.38	203.97	1,326.66	-26.10	-9.58	-25.99	0.18	0.06	7.21	
1,517.00	1.40	216.17	1,516.61	-30.06	-11.88	-29.93	0.16	0.01	6.42	
1,707.00	1.17	218.57	1,706.56	-33.45	-14.46	-33.29	0.12	-0.12	1.26	
1,897.00	1.23	222.50	1,896.52	-36.47	-17.05	-36.29	0.05	0.03	2.07	

Survey Report

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Site:	Rustler Bluff 19 24 29 Federal	MD Reference:	RKB @ 2949.00usft (Ensign 767)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #1 Job 1412116	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Ensign 767)	Database:	Compass 5000 GCR

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)
	2,087.00	1.05	173.61	2,086.48	-39.71	-18.23	-39.51	0.50	-0.09	-25.73
	2,277.00	1.33	163.46	2,276.44	-43.55	-17.41	-43.36	0.18	0.15	-5.34
	2,467.00	2.48	144.90	2,466.34	-49.03	-14.42	-48.87	0.68	0.61	-9.77
	2,561.00	1.65	142.56	2,560.27	-51.77	-12.43	-51.63	0.89	-0.88	-2.49
	2,753.00	1.29	122.70	2,752.21	-55.13	-8.93	-55.03	0.32	-0.19	-10.34
	2,943.00	0.31	235.92	2,942.20	-56.57	-7.56	-56.49	0.76	-0.52	59.59
	3,134.00	0.40	273.34	3,133.19	-56.82	-8.65	-56.73	0.13	0.05	19.59
	3,324.00	0.45	256.63	3,323.19	-56.96	-10.04	-56.84	0.07	0.03	-8.79
	3,515.00	1.59	350.23	3,514.16	-54.52	-11.22	-54.39	0.88	0.60	49.01
	3,704.00	1.51	347.77	3,703.09	-49.50	-12.19	-49.37	0.06	-0.04	-1.30
	3,895.00	1.86	347.80	3,894.01	-44.01	-13.38	-43.86	0.18	0.18	0.02
	4,085.00	0.59	66.35	4,083.97	-40.60	-13.13	-40.46	0.97	-0.67	41.34
	4,275.00	0.85	71.97	4,273.96	-39.78	-10.90	-39.66	0.14	0.14	2.96
	4,464.00	0.77	71.33	4,462.94	-38.94	-8.36	-38.84	0.04	-0.04	-0.34
	4,656.00	0.73	66.92	4,654.92	-38.04	-6.01	-37.98	0.04	-0.02	-2.30
	4,844.00	0.71	68.14	4,842.81	-37.14	-3.83	-37.10	0.01	-0.01	0.65
	5,034.00	1.01	102.56	5,032.89	-37.07	-1.10	-37.05	0.31	0.16	18.12
	5,224.00	0.95	113.96	5,222.86	-38.07	1.97	-38.09	0.11	-0.03	6.00
	5,413.00	0.93	122.29	5,411.83	-39.53	4.70	-39.57	0.07	-0.01	4.41
	5,603.00	0.91	340.06	5,601.82	-38.93	5.49	-38.99	0.92	-0.01	-74.86
	5,792.00	0.99	340.26	5,790.80	-35.98	4.43	-36.03	0.04	0.04	0.11
	5,981.00	1.07	340.88	5,979.77	-32.78	3.30	-32.81	0.04	0.04	0.33
	6,171.00	1.09	346.07	6,169.73	-29.35	2.28	-29.37	0.05	0.01	2.73
	6,360.00	0.82	343.83	6,358.71	-26.30	1.47	-26.32	0.14	-0.14	-1.19
	6,551.00	0.54	4.65	6,549.69	-24.10	1.16	-24.11	0.19	-0.15	10.90
	6,740.00	0.20	333.55	6,738.69	-22.91	1.09	-22.92	0.20	-0.18	-16.46
	6,930.00	0.59	266.39	6,928.68	-22.68	-0.04	-22.68	0.29	0.21	-35.35
	7,121.00	1.55	254.77	7,119.85	-23.42	-3.51	-23.38	0.51	0.50	-6.08
	7,311.00	1.17	289.33	7,309.60	-23.45	-7.82	-23.36	0.47	-0.20	18.19
	7,502.00	0.70	314.88	7,500.57	-21.98	-10.49	-21.87	0.32	-0.25	13.38
	7,690.00	0.81	288.72	7,688.56	-20.74	-12.56	-20.61	0.19	0.06	-13.91
	7,886.00	0.87	311.68	7,884.54	-19.31	-14.98	-19.15	0.17	0.03	11.71
	7,917.00	4.23	329.17	7,915.50	-18.17	-15.74	-18.00	11.00	10.84	56.42
	7,949.00	9.02	327.17	7,947.28	-15.05	-17.71	-14.86	14.98	14.97	-6.25
	7,981.00	11.83	328.84	7,978.75	-10.13	-20.77	-9.91	8.83	8.78	5.22
	8,013.00	13.16	325.96	8,009.99	-4.31	-24.51	-4.04	4.59	4.16	-9.00
	8,044.00	16.66	323.96	8,039.94	2.21	-29.10	2.53	11.41	11.29	-6.45
	8,076.00	20.44	319.73	8,070.28	10.19	-35.41	10.57	12.53	11.81	-13.22
	8,108.00	24.28	316.01	8,099.86	19.19	-43.59	19.66	12.78	12.00	-11.63
	8,140.00	27.83	315.13	8,128.61	29.22	-53.44	29.80	11.16	11.09	-2.75
	8,171.00	31.63	315.33	8,155.52	40.13	-64.26	40.83	12.26	12.26	0.65
	8,203.00	36.48	316.17	8,182.03	52.97	-76.75	53.80	15.23	15.16	2.63
	8,235.00	39.99	316.11	8,207.16	67.25	-90.48	68.22	10.97	10.97	-0.19

Survey Report

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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)
8,266.00	42.56	315.97	8,230.45	81.97	-104.67	83.09	8.30	8.29	-0.45
8,296.00	46.81	318.53	8,251.78	97.46	-118.97	98.74	15.38	14.17	8.53
8,328.00	51.32	320.90	8,272.74	115.91	-134.58	117.36	15.16	14.09	7.41
WB1 Final Phoenix Survey									
8,383.00	54.91	330.30	8,305.80	152.18	-159.31	153.89	15.14	6.53	17.09
WB1 Projection to TD									

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
467.00	466.94	-5.35	-3.58	WB1 First Phoenix Survey	
8,328.00	8,272.74	115.91	-134.58	WB1 Final Phoenix Survey	
8,383.00	8,305.80	152.18	-159.31	WB1 Projection to TD	

Checked By: _____	Approved By: _____	Date: _____
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