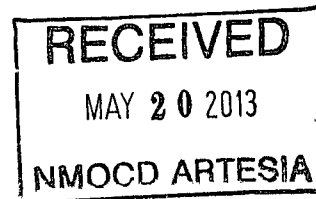


30-015-40818

CHEVRON

Culebra Bluff, S.
Eddy County, NM
Heritage 2 15 #2H
VH - Job #320113-KW-085



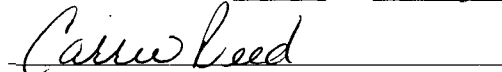
Survey: Gyro

SDI Standard Survey Report

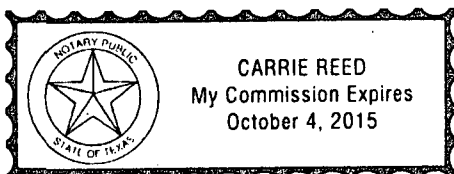
This survey is correct to the best of my knowledge and is supported by actual field data.



Notarized this date 11th of February, 2013.



Notary Signature
County of Midland
State of Texas



Scientific Drilling

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	CHEVRON	Local Co-ordinate Reference:	Well Heritage 2 15 #2H
Project:	Culebra Bluff, S.	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Heritage 2 15 #2H	North Reference:	Grid-
Wellbore:	VH - Job #320113-KW-085	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320113-KW-085	Database:	EDM-Regulatory

Project		Culebra Bluff, S.	
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		Eddy County, NM			
Site Position:		Northing:	464,597.68 usft	Latitude:	32° 16' 37.200 N
From:	Lat/Long	Easting:	584,476.30 usft	Longitude:	104° 3' 36.000 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.15 °

Well	Heritage 2 15 #2H, Directional (Schlumberger)					
Well Position	+N/-S	0.00 usft	Northing:	472,516.93 usft	Latitude:	32° 17' 55.738 N
	+E/-W	0.00 usft	Easting:	577,560.43 usft	Longitude:	104° 4' 56.341 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	0.00 usft

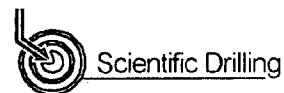
Wellbore	VH - Job #320113-KW-085				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	01/24/13	7.63	60.13	48,469

Design		VH - Job #320113-KW-085			
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	30.00

Survey Program		Date 02/06/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	4,854.00	Gyro (VH - Job #320113-KW-085)	Keeper	Keeper Gyro

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.33	321.52	100.00	0.23	-0.18	321.52	0.29
200.00	0.60	311.66	200.00	0.80	-0.75	316.83	1.10
300.00	0.84	25.69	299.99	1.81	-0.82	335.52	1.99
400.00	0.89	22.88	399.98	3.18	-0.20	356.35	3.19
500.00	1.11	78.75	499.97	4.09	1.05	14.39	4.22
600.00	1.21	94.61	599.95	4.19	3.05	36.05	5.19
700.00	1.24	83.24	699.92	4.23	5.18	50.72	6.69
800.00	0.80	28.31	799.91	4.98	6.58	52.91	8.25
900.00	0.66	11.64	899.90	6.16	7.03	48.80	9.34
1,000.00	0.38	338.32	999.90	7.03	7.02	44.99	9.94
1,100.00	0.43	319.11	1,099.89	7.62	6.66	41.14	10.12

Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	CHEVRON	Local Co-ordinate Reference:	Well Heritage 2 15 #2H
Project:	Culebra Bluff, S.	TVD Reference:	WELL @ 0.00usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0.00usft (Original Well Elev)
Well:	Heritage 2 15 #2H	North Reference:	Grid
Wellbore:	VH - Job #320113-KW-085	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #320113-KW-085	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.00	0.49	321.11	1,199.89	8.24	6.14	36.72	10.27
1,300.00	0.41	324.72	1,299.89	8.86	5.67	32.60	10.52
1,400.00	0.50	293.89	1,399.88	9.33	5.06	28.48	10.61
1,500.00	0.55	285.11	1,499.88	9.63	4.20	23.56	10.51
1,600.00	0.53	285.58	1,599.88	9.88	3.29	18.42	10.41
1,700.00	0.51	292.47	1,699.87	10.18	2.43	13.45	10.46
1,800.00	1.05	121.06	1,799.87	9.87	2.81	15.87	10.26
1,900.00	1.31	124.91	1,899.85	8.75	4.53	27.38	9.85
2,000.00	1.47	124.86	1,999.82	7.36	6.52	41.54	9.83
2,100.00	1.58	112.10	2,099.78	6.11	8.85	55.39	10.75
2,200.00	2.02	115.63	2,199.73	4.83	11.72	67.61	12.67
2,300.00	2.47	120.33	2,299.66	2.97	15.16	78.90	15.45
2,400.00	2.62	120.19	2,399.56	0.74	19.00	87.78	19.01
2,500.00	2.46	121.41	2,499.46	-1.53	22.81	93.84	22.86
2,600.00	1.74	124.42	2,599.39	-3.51	25.89	97.71	26.13
2,700.00	1.40	130.94	2,699.35	-5.17	28.07	100.43	28.54
2,800.00	1.43	128.86	2,799.32	-6.75	29.96	102.69	30.71
2,900.00	1.41	126.08	2,899.29	-8.26	31.93	104.50	32.98
3,000.00	1.25	117.92	2,999.27	-9.49	33.89	105.65	35.19
3,100.00	1.08	109.79	3,099.24	-10.32	35.74	106.11	37.20
3,200.00	0.99	109.17	3,199.23	-10.92	37.44	106.27	39.00
3,300.00	1.00	110.86	3,299.21	-11.52	39.07	106.43	40.73
3,400.00	0.82	125.21	3,399.20	-12.24	40.47	106.83	42.28
3,500.00	0.46	118.34	3,499.19	-12.85	41.41	107.23	43.35
3,600.00	0.43	103.55	3,599.19	-13.12	42.13	107.30	44.12
3,700.00	0.39	108.27	3,699.19	-13.32	42.81	107.28	44.84
3,800.00	0.37	113.73	3,799.19	-13.55	43.43	107.33	45.50
3,900.00	0.36	116.74	3,899.18	-13.83	44.01	107.44	46.13
4,000.00	0.34	109.72	3,999.18	-14.07	44.57	107.52	46.74
4,100.00	0.37	116.65	4,099.18	-14.31	45.14	107.59	47.35
4,200.00	0.37	105.26	4,199.18	-14.54	45.74	107.64	47.99
4,300.00	0.47	100.35	4,299.18	-14.70	46.45	107.56	48.72
4,400.00	0.44	108.92	4,399.17	-14.90	47.22	107.51	49.51
4,500.00	0.45	126.11	4,499.17	-15.26	47.90	107.67	50.27
4,600.00	0.42	121.39	4,599.17	-15.68	48.53	107.90	51.00
4,700.00	0.37	147.64	4,699.16	-16.14	49.01	108.23	51.60
4,800.00	0.49	177.65	4,799.16	-16.84	49.21	108.89	52.01
4,854.00	0.39	165.12	4,853.16	-17.25	49.26	109.30	52.19

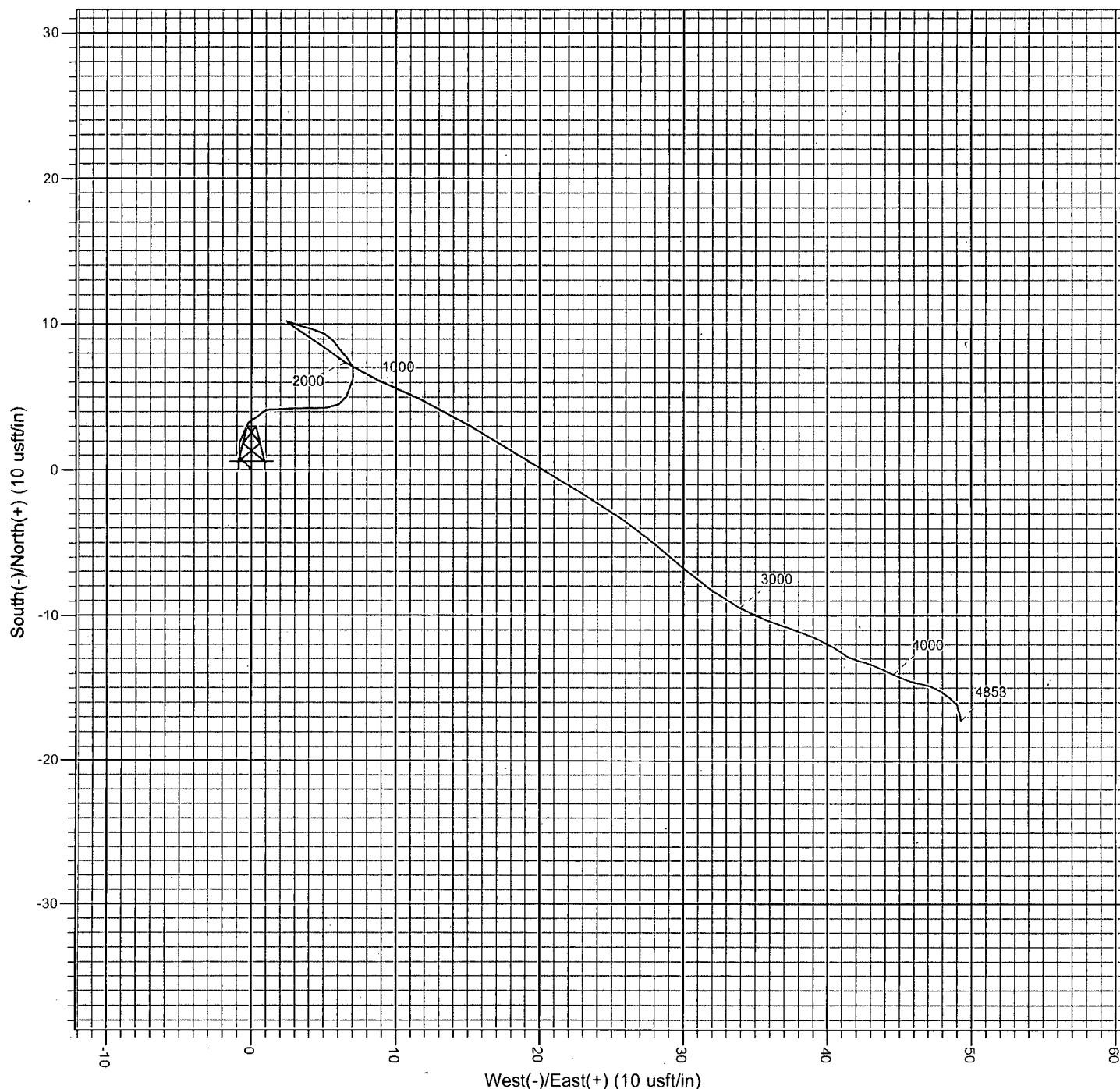


Scientific Drilling

Project: Culebra Bluff, S.
Eddy County, NM
Well: Heritage 2 15 #2H
Wellbore: VH - Job #320113-KW-085
Design: VH - Job #320113-KW-085

WELL DETAILS: Heritage 2 15 #2H
WELL @ 0.00usft (Original Well Elev)
Ground Level: 0.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	472516.93	577560.43	32° 17' 55.738 N	104° 4' 56.341 W	



PROJECT DETAILS: Culebra Bluff, S.	SITE DETAILS: Eddy County, NM
Geodetic System: US State Plane 1927 (Exact solution)	Site Centre Latitude: 32° 16' 37.200 N
Datum: NAD 1927 (NADCON CONUS)	Longitude: 104° 3' 36.000 W
Ellipsoid: Clarke 1866	Positional Uncertainty: 0.00
Zone: New Mexico East 3001	Convergence: 0.15
System Datum: Mean Sea Level	Local North: Grid

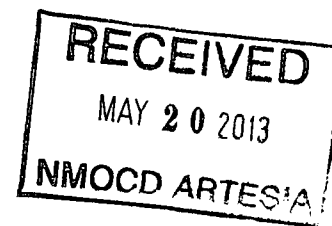
Magnetic dec (+E/W-) : 7.7350 degrees(Override)
 Grid convergence (+E/W-) : 0.1341 degrees
 GTotal az corr (+E/W-) : 7.6009 degrees

-----Run5-----

Magnetic dec (+E/W-) : 7.7350 degrees(Override)
 Grid convergence (+E/W-) : 0.1341 degrees
 GTotal az corr (+E/W-) : 7.6009 degrees

-----Run6-----

Magnetic dec (+E/W-) : 7.7350 degrees(Override)
 Grid convergence (+E/W-) : 0.1341 degrees
 GTotal az corr (+E/W-) : 7.6009 degrees



-----Survey Description Index Description-----
 0 : Uncorrected 9 : Projection to Bll

Survey List													
Seq	MD (ft)	Incl (deg)	Azim (deg)	COURSE	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	CLOSURE	ATAZIM (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	90.00	0.00	Other	0
2	100.00	0.33	321.52	100	100.00	0.23	0.23	-0.18	0.29	321.52	0.33	GyroTool	0
3	200.00	0.60	311.66	100	200.00	0.80	0.80	-0.75	1.10	316.83	0.28	GyroTool	0
4	300.00	0.84	25.69	100	299.99	1.81	1.81	-0.82	1.99	335.52	0.89	GyroTool	0
5	400.00	0.89	22.88	100	399.98	3.18	3.18	-0.20	3.19	356.35	0.07	GyroTool	0
6	500.00	1.11	78.75	100	499.97	4.08	4.09	1.05	4.22	14.39	0.96	GyroTool	0
7	600.00	1.21	94.61	100	599.95	4.18	4.19	3.05	5.19	36.05	0.34	GyroTool	0
8	700.00	1.24	83.24	100	699.92	4.21	4.23	5.18	6.69	50.72	0.24	GyroTool	0
9	800.00	0.80	28.31	100	799.91	4.94	4.98	6.58	8.25	52.91	1.02	GyroTool	0
10	900.00	0.66	11.64	100	899.90	6.12	6.16	7.03	9.34	48.80	0.25	GyroTool	0
11	1000.00	0.38	338.32	100	999.90	6.99	7.03	7.02	9.94	44.99	0.40	GyroTool	0
12	1100.00	0.43	319.11	100	1099.89	7.59	7.62	6.66	10.12	41.14	0.14	GyroTool	0
13	1200.00	0.49	321.11	100	1199.89	8.20	8.24	6.14	10.27	36.72	0.06	GyroTool	0
14	1300.00	0.41	324.72	100	1299.89	8.83	8.86	5.67	10.52	32.60	0.08	GyroTool	0
15	1400.00	0.50	293.89	100	1399.88	9.30	9.33	5.06	10.61	28.48	0.26	GyroTool	0
16	1500.00	0.55	285.11	100	1499.88	9.61	9.63	4.20	10.51	23.56	0.09	GyroTool	0
17	1600.00	0.53	285.58	100	1599.88	9.86	9.88	3.29	10.41	18.42	0.02	GyroTool	0
18	1700.00	0.51	292.47	100	1699.87	10.16	10.18	2.43	10.46	13.45	0.07	GyroTool	0
19	1800.00	1.05	121.06	100	1799.87	9.86	9.87	2.81	10.26	15.87	1.56	GyroTool	0
20	1900.00	1.31	124.91	100	1899.85	8.72	8.75	4.53	9.85	27.38	0.27	GyroTool	0
21	2000.00	1.47	124.86	100	1999.82	7.33	7.36	6.52	9.83	41.54	0.16	GyroTool	0
22	2100.00	1.58	112.10	100	2099.78	6.06	6.11	8.85	10.75	55.39	0.36	GyroTool	0
23	2200.00	2.02	115.63	100	2199.73	4.77	4.83	11.72	12.67	67.61	0.45	GyroTool	0
24	2300.00	2.47	120.33	100	2299.66	2.90	2.97	15.16	15.45	78.90	0.49	GyroTool	0
25	2400.00	2.62	120.19	100	2399.56	0.64	0.74	19.00	19.01	87.78	0.15	GyroTool	0
26	2500.00	2.46	121.41	100	2499.46	-1.65	-1.53	22.81	22.86	93.84	0.17	GyroTool	0
27	2600.00	1.74	124.42	100	2599.39	-3.64	-3.51	25.89	26.13	97.71	0.73	GyroTool	0
28	2700.00	1.40	130.94	100	2699.35	-5.31	-5.17	28.07	28.54	100.43	0.38	GyroTool	0
29	2800.00	1.43	128.86	100	2799.32	-6.90	-6.75	29.96	30.71	102.69	0.06	GyroTool	0
30	2900.00	1.41	126.08	100	2899.29	-8.42	-8.26	31.93	32.98	104.50	0.07	GyroTool	0
31	3000.00	1.25	117.92	100	2999.27	-9.66	-9.49	33.89	35.19	105.65	0.25	GyroTool	0
32	3100.00	1.08	109.79	100	3099.24	-10.50	-10.32	35.74	37.20	106.11	0.24	GyroTool	0
33	3200.00	0.99	109.17	100	3199.23	-11.11	-10.92	37.44	39.00	106.27	0.09	GyroTool	0
34	3300.00	1.00	110.86	100	3299.21	-11.72	-11.52	39.07	40.73	106.43	0.03	GyroTool	0
35	3400.00	0.82	125.21	100	3399.20	-12.45	-12.24	40.47	42.28	106.83	0.29	GyroTool	0
36	3500.00	0.46	118.34	100	3499.19	-13.05	-12.85	41.41	43.35	107.23	0.37	GyroTool	0
37	3600.00	0.43	103.55	100	3599.19	-13.34	-13.12	42.13	44.12	107.30	0.12	GyroTool	0
38	3700.00	0.39	108.27	100	3699.19	-13.53	-13.32	42.81	44.84	107.28	0.05	GyroTool	0
39	3800.00	0.37	113.73	100	3799.19	-13.77	-13.55	43.43	45.50	107.33	0.04	GyroTool	0
40	3900.00	0.36	116.74	100	3899.18	-14.05	-13.83	44.01	46.13	107.44	0.02	GyroTool	0
41	4000.00	0.34	109.72	100	3999.18	-14.29	-14.07	44.57	46.74	107.52	0.05	GyroTool	0
42	4100.00	0.37	116.65	100	4099.18	-14.54	-14.31	45.14	47.35	107.59	0.05	GyroTool	0
43	4200.00	0.37	105.26	100	4199.18	-14.77	-14.54	45.74	47.99	107.64	0.07	GyroTool	0
44	4300.00	0.47	100.35	100	4299.18	-14.94	-14.70	46.45	48.72	107.56	0.11	GyroTool	0
45	4400.00	0.44	108.92	100	4399.17	-15.14	-14.90	47.22	49.51	107.51	0.07	GyroTool	0
46	4500.00	0.45	126.11	100	4499.17	-15.50	-15.26	47.90	50.27	107.67	0.13	GyroTool	0
47	4600.00	0.42	121.39	100	4599.17	-15.92	-15.68	48.53	51.00	107.90	0.05	GyroTool	0
48	4700.00	0.37	147.64	100	4699.16	-16.39	-16.14	49.01	51.60	108.23	0.19	GyroTool	0
49	4800.00	0.49	177.65	100	4799.16	-17.09	-16.84	49.21	52.01	108.89	0.25	GyroTool	0
50	4854.00	0.39	165.12	54	4853.16	-17.50	-17.25	49.26	52.19	109.30	0.26	GyroTool	0
51	5014.00	2.50	18.45	160	5013.11	-14.72	-14.46	50.51	52.54	105.98	1.77	SlimPulse	0
52	5046.00	2.42	17.38	32	5045.09	-13.42	-13.16	50.93	52.60	104.49	0.30	SlimPulse	0
53	5140.00	2.32	14.15	94	5139.00	-9.68	-9.42	51.99	52.83	100.27	0.18	SlimPulse	0
54	5234.00	2.15	15.16	94	5232.93	-6.14	-5.87	52.91	53.24	96.33	0.18	SlimPulse	0
55	5329.00	2.06	9.80	95	5327.87	-2.74	-2.46	53.67	53.73	92.63	0.23	SlimPulse	0
56	5423.00	1.97	9.74	94	5421.81	0.52	0.79	54.23	54.24	89.16	0.10	SlimPulse	0
57	5518.00	1.92	12.54	95	5516.76	3.68	3.96	54.86	55.00	85.87	0.11	SlimPulse	0
58	5612.00	1.86	16.74	94	5610.71	6.68	6.96	55.64	56.07	82.87	0.16	SlimPulse	0
59	5706.00	1.73	17.43	94	5704.66	9.48	9.77	56.50	57.34	80.19	0.14	SlimPulse	0
60	5801.00	1.56	18.98	95	5799.62	12.07	12.36	57.35	58.66	77.84	0.18	SlimPulse	0
61	5895.00	1.52	20.45	94	5893.59	14.44	14.73	58.20	60.04	75.79	0.06	SlimPulse	0
62	5990.00	1.37	21.33	95	5988.56	16.67	16.97	59.05	61.44	73.97	0.16	SlimPulse	0
63	6085.00	1.27	23.10	95	6083.53	18.69	18.99	59.88	62.82	72.40	0.11	SlimPulse	0
64	6179.00	1.14	27.79	94	6177.51	20.47	20.78	60.72	64.18	71.11	0.18	SlimPulse	0
65	6274.00	1.00	34.41	95	6272.49	21.98	22.29	61.63	65.54	70.11	0.19	SlimPulse	0

SCHLUMBERGER
Survey Report

5-Feb-12

Client.....: Chevron U.S.A. Inc
Field.....: Culebra Bluff, Bone Spring South

Well.....: Heritage 2-15 2H
API number.....: 30-015-40818
Engineer.....: N Seprodi

Spud date.....: 11-Jan-12
Last survey date.....: 03-Feb-12
Total accepted surveys....: 99
MD of first survey.....: 5014.00 ft
MD of last survey.....: 12494.00 ft

COUNTY.....: Eddy
STATE.....: New Mexico
RIG.....: H&P 227

Latitude: 32° 17' 55.739" N
Longitude: 103° 4' 56.342" W

----- Survey calculation methods-----
Method for positions.....: Minimum curvature
Method for DLS.....: Lubinski

----- Depth reference -----
Permanent datum.....: MEAN SEA LEVEL
Depth reference.....: Driller's Depth
GL above permanent.....: 3034.00 ft
KB above permanent.....: Top Drive
DF above permanent.....: 3059.00 ft

----- Vertical section origin-----
Latitude (+N/-).....: 0.00 ft
Departure (+E/-).....: 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X.....: 577560.400 ft
Y.....: 472517.100 ft

Azimuth from Vsect Origin to target: 359.71 degrees

-----MWD Survey Reference Criteria-----

-----Run1-----
Geomag Model: : BGGM 2012 Calculation Date: : 21-Jan-2013
Location G : 998.83 mgn Tolerance G : 2.50 mgn
Location B (Override): 48424.02 nT Tolerance B : 300.00 nT
Magnetic Dip (Override): 60.09 degrees Tolerance Dip : 0.45 degrees

-----Run2-----
Geomag Model: : BGGM 2012 Calculation Date: : 26-Jan-2013
Location G : 998.83 mgn Tolerance G : 2.50 mgn
Location B (Override): 48424.02 nT Tolerance B : 300.00 nT
Magnetic Dip (Override): 60.09 degrees Tolerance Dip : 0.45 degrees

-----Run4-----
Geomag Model: : BGGM 2012 Calculation Date: : 28-Jan-2013
Location G : 998.83 mgn Tolerance G : 2.50 mgn
Location B (Override): 48424.02 nT Tolerance B : 300.00 nT
Magnetic Dip (Override): 60.09 degrees Tolerance Dip : 0.45 degrees

-----Run5-----
Geomag Model: : BGGM 2012 Calculation Date: : 30-Jan-2013
Location G : 998.83 mgn Tolerance G : 2.50 mgn
Location B (Override): 48424.02 nT Tolerance B : 300.00 nT
Magnetic Dip (Override): 60.09 degrees Tolerance Dip : 0.45 degrees

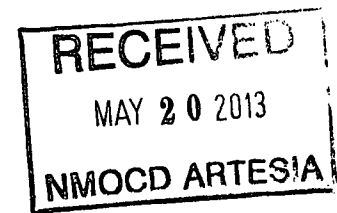
-----Run6-----
Geomag Model: : BGGM 2012 Calculation Date: : 31-Jan-2013
Location G : 998.83 mgn Tolerance G : 2.50 mgn
Location B (Override): 48424.02 nT Tolerance B : 300.00 nT
Magnetic Dip (Override): 60.09 degrees Tolerance Dip : 0.45 degrees

-----MWD Survey Azimuth Correction-----

-----Run1-----
Magnetic dec (+E/-) : 7.7350 degrees(Override)
Grid convergence (+E/-) : 0.1341 degrees
GTotal az corr (+E/-) : 7.6009 degrees

-----Run2-----
Magnetic dec (+E/-) : 7.7350 degrees(Override)
Grid convergence (+E/-) : 0.1341 degrees
GTotal az corr (+E/-) : 7.6009 degrees

-----Run4-----



66	6368.00	1.16	33.95	94	6366.48	23.44	23.76	62.63	66.98	69.22	0.18	SlimPulse	0
67	6463.00	1.14	29.30	95	6461.46	25.07	25.39	63.63	68.51	68.25	0.10	SlimPulse	0
68	6558.00	1.22	16.45	95	6556.44	26.86	27.18	64.38	69.88	67.11	0.29	SlimPulse	0
69	6652.00	1.23	13.81	94	6650.42	28.79	29.12	64.90	71.13	65.84	0.06	SlimPulse	0
70	6746.00	1.49	23.07	94	6744.39	30.89	31.22	65.62	72.67	64.55	0.36	SlimPulse	0
71	6840.00	0.55	49.91	94	6838.37	32.30	32.64	66.45	74.03	63.84	1.10	SlimPulse	0
72	6934.00	0.12	76.25	94	6932.37	32.62	32.96	66.89	74.57	63.77	0.47	SlimPulse	0
73	7028.00	0.15	147.01	94	7026.37	32.53	32.87	67.06	74.68	63.88	0.17	SlimPulse	0
74	7123.00	0.49	116.70	95	7121.37	32.24	32.58	67.49	74.95	64.23	0.39	SlimPulse	0
75	7217.00	0.62	125.43	94	7215.37	31.76	32.11	68.27	75.44	64.81	0.16	SlimPulse	0
76	7311.00	0.63	121.81	94	7309.36	31.19	31.54	69.12	75.98	65.47	0.04	SlimPulse	0
77	7349.00	0.71	121.22	38	7347.36	30.96	31.31	69.50	76.23	65.75	0.20	SlimPulse	0
78	7384.00	0.66	132.42	35	7382.36	30.71	31.06	69.83	76.43	66.02	0.41	SlimPulse	0
79	7415.00	1.45	24.14	31	7413.35	30.94	31.30	70.13	76.79	65.95	5.71	SlimPulse	0
80	7439.00	4.02	8.71	24	7437.32	32.05	32.41	70.38	77.48	65.28	11.03	SlimPulse	0
81	7471.00	6.21	6.65	32	7469.19	34.88	35.24	70.75	79.04	63.52	6.88	SlimPulse	0
82	7502.00	8.16	7.74	31	7499.95	38.72	39.08	71.24	81.26	61.25	6.31	SlimPulse	0
83	7534.00	10.42	6.78	32	7531.53	43.84	44.21	71.89	84.39	58.41	7.07	SlimPulse	0
84	7565.00	12.41	5.71	31	7561.91	49.94	50.31	72.55	88.29	55.26	6.44	SlimPulse	0
85	7597.00	14.23	5.12	32	7593.05	57.28	57.65	73.24	93.21	51.79	5.72	SlimPulse	0
86	7628.00	16.41	4.32	31	7622.95	65.44	65.81	73.91	98.97	48.32	7.05	SlimPulse	0
87	7659.00	18.48	4.30	31	7652.52	74.70	75.08	74.61	105.85	44.82	6.68	SlimPulse	0
88	7691.00	20.23	4.18	32	7682.71	85.27	85.65	75.39	114.11	41.36	5.46	SlimPulse	0
89	7722.00	22.10	4.23	31	7711.62	96.43	96.81	76.22	123.21	38.21	6.06	SlimPulse	0
90	7754.00	23.75	3.36	32	7741.09	108.86	109.25	77.04	133.68	35.19	5.24	SlimPulse	0
91	7785.00	24.81	2.78	31	7769.35	121.58	121.98	77.72	144.63	32.50	3.52	SlimPulse	0
92	7817.00	25.78	1.85	32	7798.28	135.24	135.64	78.27	156.60	29.99	3.27	SlimPulse	0
93	7848.00	27.28	1.25	31	7826.01	149.08	149.48	78.64	168.91	27.75	4.91	SlimPulse	0
94	7880.00	28.97	1.60	32	7854.23	164.16	164.56	79.02	182.55	25.65	5.30	SlimPulse	0
95	7974.00	34.57	2.51	94	7934.12	213.58	213.99	80.83	228.75	20.69	5.98	SlimPulse	0
96	8006.00	35.83	2.86	32	7960.27	232.00	232.42	81.69	246.36	19.37	4.01	SlimPulse	0
97	8065.00	37.43	2.98	59	8007.62	267.15	267.57	83.48	280.29	17.33	2.70	SlimPulse	0
98	8162.00	45.47	5.43	97	8080.27	331.09	331.54	88.29	343.09	14.91	8.46	SlimPulse	0
99	8194.00	49.56	5.78	32	8101.88	354.56	355.02	90.60	366.40	14.32	12.81	SlimPulse	0
100	8257.00	57.51	6.04	63	8139.29	404.88	405.37	95.82	416.54	13.30	12.61	SlimPulse	0
101	8352.00	71.60	5.72	95	8180.01	489.95	490.49	104.57	501.51	12.04	14.83	SlimPulse	0
102	8383.00	76.74	5.41	31	8188.46	519.61	520.16	107.47	531.15	11.67	16.62	SlimPulse	0
103	8415.00	81.40	4.61	32	8194.53	550.89	551.45	110.21	562.36	11.30	14.76	SlimPulse	0
104	8446.00	85.80	3.63	31	8197.99	581.60	582.17	112.42	592.93	10.93	14.54	SlimPulse	0
105	8511.00	93.30	1.99	65	8198.50	646.45	647.04	115.60	657.29	10.13	11.81	SlimPulse	0
106	8538.00	94.06	1.87	27	8196.76	673.38	673.97	116.51	683.97	9.81	2.84	SlimPulse	0
107	8588.00	94.71	1.05	50	8192.94	723.20	723.81	117.78	733.33	9.24	2.09	SlimPulse	0
108	8683.00	93.55	0.55	95	8186.10	817.94	818.55	119.11	827.17	8.28	1.33	SlimPulse	0
109	8777.00	93.27	0.01	94	8180.51	911.77	912.38	119.57	920.19	7.47	0.65	SlimPulse	0
110	8871.00	93.30	359.29	94	8175.12	1005.61	1006.23	119.00	1013.24	6.74	0.77	SlimPulse	0
111	8966.00	92.62	358.91	95	8170.22	1100.48	1101.09	117.51	1107.34	6.09	0.82	SlimPulse	0
112	9060.00	92.44	358.41	94	8166.07	1194.37	1194.97	115.32	1200.52	5.51	0.57	SlimPulse	0
113	9155.00	93.75	357.87	95	8161.76	1289.24	1289.82	112.24	1294.70	4.97	0.65	SlimPulse	0
114	9249.00	91.86	357.37	94	8157.99	1383.10	1383.66	108.33	1387.90	4.48	1.09	SlimPulse	0
115	9344.00	91.07	357.02	95	8155.56	1477.98	1478.52	103.69	1482.15	4.01	0.91	SlimPulse	0
116	9438.00	90.69	356.71	94	8154.12	1571.85	1572.37	98.55	1575.45	3.59	0.52	SlimPulse	0
117	9533.00	91.55	355.91	95	8152.27	1666.66	1667.15	92.44	1669.71	3.17	1.23	SlimPulse	0
118	9628.00	94.06	354.29	95	8147.63	1761.23	1761.68	84.34	1763.70	2.74	3.14	SlimPulse	0
119	9722.00	90.52	354.15	94	8143.88	1854.71	1855.11	74.89	1856.62	2.31	3.77	SlimPulse	0
120	9817.00	90.76	354.61	95	8142.82	1949.29	1949.65	65.59	1950.75	1.93	0.54	SlimPulse	0
121	9911.00	90.79	355.31	94	8141.55	2042.96	2043.28	57.34	2044.08	1.61	0.74	SlimPulse	0
122	10006.00	90.69	357.09	95	8140.33	2137.77	2138.06	51.04	2138.67	1.37	1.87	SlimPulse	0
123	10100.00	90.52	357.47	94	8139.34	2231.68	2231.95	46.58	2232.43	1.20	0.44	SlimPulse	0
124	10194.00	90.48	357.84	94	8138.52	2325.62	2325.86	42.73	2326.26	1.05	0.40	SlimPulse	0
125	10289.00	90.38	357.87	95	8137.81	2420.57	2420.80	39.18	2421.11	0.93	0.11	SlimPulse	0
126	10383.00	90.38	358.23	94	8137.19	2514.52	2514.74	35.98	2515.00	0.82	0.38	SlimPulse	0
127	10478.00	90.55	358.66	95	8136.42	2609.50	2609.70	33.41	2609.91	0.73	0.49	SlimPulse	0
128	10573.00	90.34	358.19	95	8135.68	2704.47	2704.66	30.80	2704.84	0.65	0.54	SlimPulse	0
129	10667.00	90.41	358.00	94	8135.06	2798.43	2798.61	27.68	2798.74	0.57	0.22	SlimPulse	0
130	10761.00	90.31	358.23	94	8134.47	2892.39	2892.55	24.58	2892.66	0.49	0.28	SlimPulse	0
131	10856.00	90.55	358.35	95	8133.76	2987.36	2987.51	21.75	2987.59	0.42	0.28	SlimPulse	0
132	10950.00	90.31	357.39	94	8133.05	3081.31	3081.44	18.26	3081.49	0.34	1.05	SlimPulse	0
133	11045.00	90.28	357.79	95	8132.57	3176.24	3176.36	14.27	3176.39	0.26	0.42	SlimPulse	0
134	11139.00	90.34	357.46	94	8132.06	3270.18	3270.27	10.37	3270.29	0.18	0.36	SlimPulse	0
135	11233.00	90.31	358.04	94	8131.52	3364.12	3364.20	6.67	3364.21	0.11	0.62	SlimPulse	0
136	11328.00	89.86	357.14	95	8131.38	3459.06	3459.11	2.68	3459.11	0.04	1.06	SlimPulse	0
137	11422.00	90.52	358.63	94	8131.07	3553.00	3553.05	-0.80	3553.05	359.99	1.73	SlimPulse	0
138	11517.00	90.21	359.22	95	8130.47	3647.99	3648.03	-2.58	3648.03	359.96	0.71	SlimPulse	0
139	11611.00	90.14	0.18	94	8130.19	3741.99	3742.02	-3.07	3742.02	359.95	1.02	SlimPulse	0
140	11706.00	90.38	0.86	95	8129.76	3836.98	3837.02	-2.21	3837.02	359.97	0.76	SlimPulse	0
141	11801.00	90.17	1.09	95	8129.31	3931.96	3932.00	-0.59	3932.00	359.99	0.33	SlimPulse	0
142	11895.00	90.38	1.02	94	8128.86	4025.93	4025.99	1.13	4025.99	0.02	0.23	SlimPulse	0
143	11990.00	90.45	0.65	95	8128.17	4120.91	4120.97	2.52	4120.97	0.04	0.39	SlimPulse	0
144	12084.00	90.38	0.07	94	8127.49	4214.90	4214.97	3.11	4214.97	0.04	0.62	SlimPulse	0
145	12179.00	90.21	0.06	95	8127.01	4309.90	4309.97	3.22	4309.97	0.04	0.18	SlimPulse	0
146	12274.00	90.34	359.55	95	8126.55	4404.89	4404.97	2.90	4404.97	0.04	0.56	SlimPulse	0
147	12368.00	90.45	359.21	94	8125.91	4498.89	4498.96	1.88	4498.96	0.02	0.37	SlimPulse	0
148	12462.00	90.34	358.64	94	8125.26	4592.88	4592.94	0.12	4592.94	0.00	0.62	SlimPulse	0
149	12494.00	90.10	358.43	32	8125.13	4624.87	4624.93	-0.70	4624.93	359.99	0.99	SlimPulse	0
150	12521.00	90.10	358.43	27	8125.08	4651.86	4651.92	-1.44	4651.92	359.98	0.02	PROJ	9