

Results of Directional Survey

API number:	30-025-40415		
OGRID:	2178.7	Operator:	EOG RESOURCES INC <i>Conoco Phillips Co</i>
		Property:	RED HILLS WEST 16 STATE # 6H

surface	ULSTR:	C	16	T 26S	R 32E
				180 FNL	2010 FWL

BH Loc	ULSTR:	N	16	T 26S	R 32E
14012	MD	9349.0	TVD	276 FSL	2293 FWL
				5004 FNL	

Top Perf/OH	ULSTR:	C	16	T 26S	R 32E
9863	MD	9339.4	TVD	861 FNL	2204 FWL

Bot Perf/OH	ULSTR:	N	16	T 26S	R 32E
13960	MD	9349.8	TVD	328 FSL	2291 FWL
				4952 FNL	

	MD	N/S	E/W	VD
	9819	-637.97	184.58	9339.59
TOP PERFS/OH	9863	-680.95	193.99	9339.43
	9910	-726.86	204.05	9339.25
	13900	-4712.26	278.75	9350.69
BOT PERFS/OH	13960	-4772.21	281.11	9349.83
	13988	-4800.18	282.21	9349.43

NEXT TO LAST	13988	-4800.18	282.21	9349.43
LAST READING	14012	-4824.16	283.27	9349.04
TD	14012	-4824.16	283.27	9349.04

Surface Location	180	FN	2010	FW
Projected BHL	5004	FN	2293	FW
Location of				
Top Perfs/OH	861	FN	2204	FW
Bottom Perfs/OH	4952	FN	2291	FW

SUMMARY of Subsurface Locations

Surface Location	C-16-26S-32E	180	FN	2010	FW	Vert. Depth
Top Perfs/OH	C-16-26S-32E	861	FN	2204	FW	9339.43
Bottom Perfs/OH	N-16-26S-32E	4952	FN	2291	FW	9349.83
Projected TD	N-16-26S-32E	5004	FN	2293	FW	9349.04

SEP 04 2013

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AUG 10 2013

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Schlumberger

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

January 17, 2013

Conoco Phillips

3401 E. 30th Street

Farmington, 87402

Attention: Katia Filina

Re:

CLIENT: Conoco Phillips
WELL: Red Hills West 16 State 6H
FIELD: NM, Lee (NAD27) 2011
RIG: PD 827
COUNTY: Lea
API NO: 30-025-401500
JOB NO: NM-CON-0003

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Michael Putnam FST-T	Red Hills West 16 State 6H Original Hole	57.00 Ft to 892.00 Ft	January 10, 2013 to January 11, 2013	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,



Mike Johns
Field Service Manager

CC: Conoco Phillips
Enclosures: [2]
County of Lea
State of New Mexico

Schlumberger

Reservoir Development
Drilling & Measurements (Extreme Engineering)
6724 Corporation Pkwy Suite 100
Fort Worth, TX 76126
Phone: (817) 717-1820
Fax: (817) 546-7551

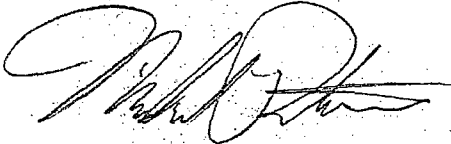
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AUG 10 2013

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I, Michael Putnam certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of January 10, 2013 through January 11, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 57.00 feet to a depth of 892.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Conoco Phillips for the Red Hills West 16 State 6H Well (Original Hole) API No. 30-025-401500 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

SUBSCRIBED AND SWORN TO BEFORE ME
THIS 13 DAY OF January 2013
BY Michael Putnam
Gloria Chapler
NOTARY PUBLIC



Michael Putnam
FST-T

My Commission Expires: _____
NOTARY PUBLIC - STATE OF NEW MEXICO
GLORIA CHAPLER
OFFICIAL SEAL



OFFICIAL SEAL
GLORIA CHAPLER
NOTARY PUBLIC - STATE OF NEW MEXICO

My Commission Expires: 10/9/2016

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AUG 10 2013

RED HILLS WEST 16 STATE 6 H MWD 0' to 892' Survey Report

(Def Survey)

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Report Date: January 11, 2013 - 04:53 AM
 Client: Conoco
 Field: NM, Lee (NAD27) 2011
 Structure / Slot: Conoco (RED HILLS WEST 16 STATE 6 H) PD 827 / RED HILLS WEST 16 STATE 6 H
 Well: RED HILLS WEST 16 STATE 6 H
 Borehole: Original Hole
 UWI / API#: Conoco / 30-025-4041500
 Survey Name: RED HILLS WEST 16 STATE 6 H MWD 0' to 892'
 Survey Date: January 11, 2013
 Tort / AHD / DDI / ERD Ratio: 4.545' / 26.330 ft / 2.078 / 0.030
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 2' 59.29080", W 103° 40' 55.48188"
 Location Grid N/E Y/X: N 382452.149 NUS, E 701778.311 NUS
 CRS Grid Convergence Angle: 0.34560338°
 Grid Scale Factor: 0.99995572

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3218.000 ft above MSL
 Seabed / Ground Elevation: 3202.000 ft above MSL
 Magnetic Declination: 7.308°
 Total Field Strength: 48323.853 nT
 Magnetic Dip Angle: -59.823°
 Declination Date: January 11, 2013
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: -0.348°
 Total Corr Mag North->Grid North: -6.982°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	382452.15	701778.31	N 32 2 59.29	W 103 40 55.48
Begin MWD Surveys	57.00	0.22	345.00	57.00	0.11	0.11	-0.03	0.39	382452.25	701778.28	N 32 2 59.29	W 103 40 55.48
	125.00	0.40	87.00	125.00	0.24	0.24	0.17	0.73	382452.39	701778.49	N 32 2 59.29	W 103 40 55.48
	148.00	0.70	132.00	148.00	0.15	0.15	0.38	2.19	382452.30	701778.67	N 32 2 59.29	W 103 40 55.48
	179.00	0.88	103.00	179.00	-0.03	-0.03	0.73	1.39	382452.12	701779.04	N 32 2 59.29	W 103 40 55.47
	209.00	1.19	114.00	209.99	-0.20	-0.20	1.24	1.22	382451.94	701779.55	N 32 2 59.29	W 103 40 55.47
	287.00	1.49	114.00	286.97	-0.95	-0.95	2.91	0.38	382451.20	701781.22	N 32 2 59.28	W 103 40 55.45
	330.00	1.41	114.00	329.96	-1.39	-1.39	3.90	0.19	382450.76	701782.21	N 32 2 59.28	W 103 40 55.44
	473.00	1.89	123.00	472.90	-3.39	-3.39	7.49	0.38	382448.76	701785.80	N 32 2 59.26	W 103 40 55.40
	509.00	2.20	120.00	508.87	-4.06	-4.06	8.58	0.91	382448.09	701786.89	N 32 2 59.25	W 103 40 55.38
	553.00	2.11	119.00	552.84	-4.87	-4.87	10.02	0.22	382447.28	701788.33	N 32 2 59.24	W 103 40 55.37
	598.00	2.29	127.00	597.81	-5.82	-5.82	11.47	0.79	382446.33	701789.78	N 32 2 59.23	W 103 40 55.35
	643.00	2.42	127.00	642.77	-6.93	-6.93	12.94	0.29	382445.22	701791.25	N 32 2 59.22	W 103 40 55.33
	687.00	2.50	125.00	686.73	-8.04	-8.04	14.47	0.27	382444.11	701792.78	N 32 2 59.21	W 103 40 55.31
	777.00	2.50	121.00	776.64	-10.17	-10.17	17.76	0.19	382441.97	701796.07	N 32 2 59.19	W 103 40 55.28
End MWD Surveys	892.00	2.90	121.00	891.52	-12.96	-12.96	22.40	0.35	382439.18	701800.71	N 32 2 59.16	W 103 40 55.22

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	16.000	Act Sins	SLB_MWD-STD-Depth Only	Original Hole / RED HILLS WEST 16 STATE 6 H MWD 0' to 892'
	16.000	16.000	Act Sins	SLB_MWD-STD-Depth Only	Original Hole / RED HILLS WEST 16 STATE 6 H MWD 0' to 892'
	16.000	892.000	Act Sins	SLB_MWD-STD	Original Hole / RED HILLS WEST 16 STATE 6 H MWD 0' to 892'



Weatherford

Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

ConocoPhillips
600 N Dairy Ashford
Houston TX, 77097

Date: February 12, 2013

HOBBS OCD

AUG 10 2013

Attention: Katia Filina

Re: ConocoPhillips
Well: Red Hills West 16 State #6H
Lea County, New Mexico

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Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

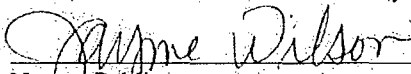
Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Donnie Meister MWD Supervisor	6H	962' MD 13988' MD	1/11/2013 2/10/2013	Measurement While Drilling

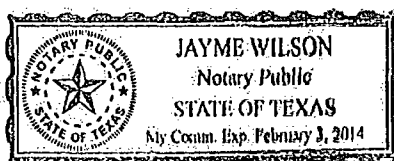
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

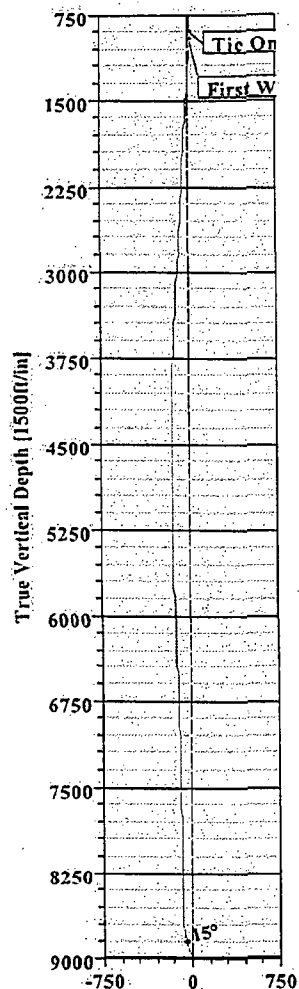

Jesse Aguilar
MWD Ops. Coordinator

On this, the 12th day of February, 2013, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.


Notary Public





SECTION DETAILS										
Sec.	MD	Inc.	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9735.00	39.50	166.79	9339.84	-556.11	164.16	0.00	0.00	565.10	
2	10141.49	90.02	178.97	9341.54	-959.00	214.74	3.00	87.58	969.94	
3	14018.17	90.02	178.97	9340.00	-4835.06	284.18	0.00	0.00	-4843.40	PBHL

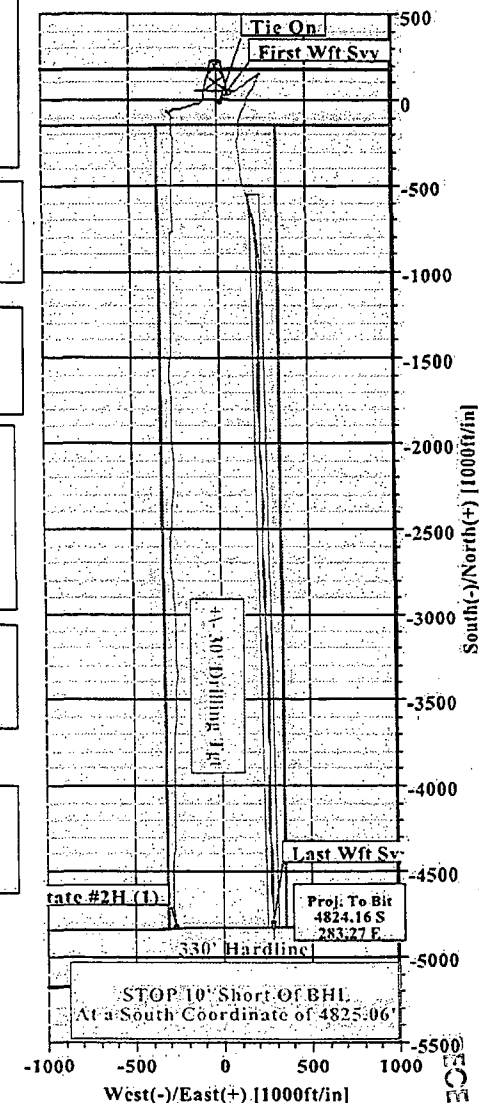
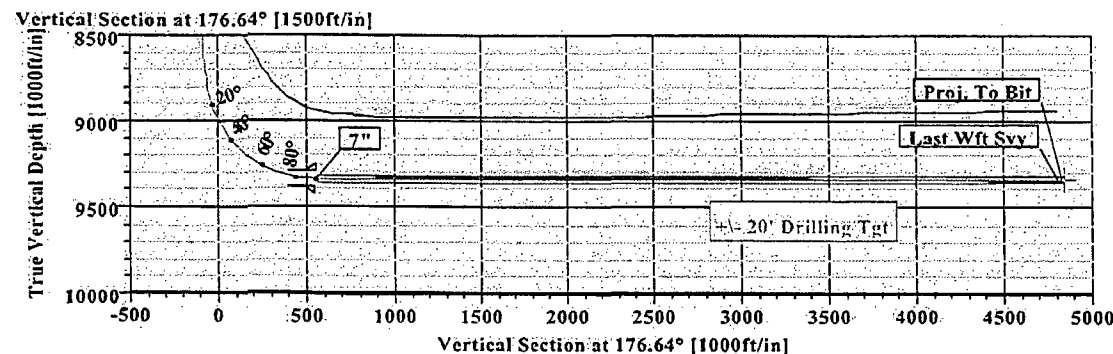
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#6H	0.00	0.00	382393.66	701914.72	32°02'58.704N	103°40'53.901W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
For Drilling Tgt	9340.00	-4835.06	284.18	377558.60	702198.90	Rectangle (4285x60)
PBHL	9340.00	-4835.06	284.18	377558.60	702198.90	Point

SITE DETAILS
 Red Hills West 16 State #6H
 Site Centre Northing: 382393.66
 Easting: 701914.72
 Ground Level: 3202.00
 Positional Uncertainty: 0.00
 Convergence: 0.35

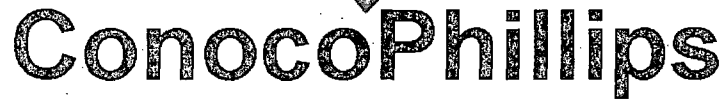
LEGEND
 #6H.I. Plan #4
 #6H.I.SLE MWD Svy
 Red Hills West 16 State #2H (1)
 1
 Wn Svy

Survey: Wft Svy (#6H/1)										
No.	MD	Inc.	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
160	14012.00	90.93	177.48	9349.04	-4824.16	283.27	0.00	0.00	-4832.46	



Survey: Wft Svy (#6H/1)
 Created By: Russell W. Joyner
 Date: 2/10/2013

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Conoco Phillips

Lea County, New Mexico
Sec 16, T26S, R32E NMPM
Red Hills West 16 State 1H

Wellbore #1

Survey: MWD

DDC Survey Report

14 January, 2013

AUG 10 2013

ConocoPhillips

Weatherford
WFT Survey Report X & Y's

Weatherford

Company: ConocoPhillips Date: 2/10/2013 Time: 09:13:25 Page: 1
 Field: Lea Co, NM (Nad 27) Co-ordinate(NE) Reference: Well: #6H, Grid North
 Site: Red Hills West 16 State #6H Vertical (TVD) Reference: SITE 3218.0
 Well: #6H Section (VS) Reference: Well (0.00N,0.00E,176.64Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 1/17/2013
 Company: Weatherford Engineer: Russell W. Joyner
 Tool: MWD/MWD - Standard Tied-to: User Defined

Site: Red Hills West 16 State #6H

Site Position: Northing: 382393.66 ft Latitude: 32 2 58.704 N
 From: Map Easting: 701914.72 ft Longitude: 103 40 53.901 W
 Position Uncertainty: 0.00 ft North Reference: Grid
 Ground Level: 3202.00 ft Grid Convergence: 0.35 deg

Well: #6H Slot Name:
 Well Position: +N/-S 0.00 ft Northing: 382393.66 ft Latitude: 32 2 58.704 N
 +E/-W 0.00 ft Easting: 701914.72 ft Longitude: 103 40 53.901 W
 Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
 Current Datum: SITE Height 3218.00 ft Tie-on Depth: 0.00 ft
 Magnetic Data: 1/25/2013 Above System Datum: Mean Sea Level
 Field Strength: 48343 nT Declination: 7.53 deg
 Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 59.92 deg
 ft +E/-W Direction
 0.00 0.00 0.00 176.64

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
892.00	2.90	121.00	891.52	-12.96	22.40	0.00	14.26	382380.70	701937.12	Tie On First Wft Svy
962.00	2.63	113.18	961.44	-14.51	25.40	0.66	15.97	382379.15	701940.12	
1051.00	3.47	57.16	1050.33	-13.85	29.54	3.32	15.56	382379.81	701944.26	
1140.00	5.37	39.92	1139.06	-9.20	34.48	2.58	11.20	382384.46	701949.20	
1230.00	4.62	39.68	1228.72	-3.18	39.49	0.83	5.49	382390.48	701954.21	
1319.00	4.71	39.98	1317.42	2.38	44.13	0.10	0.21	382396.04	701958.85	
1409.00	5.01	40.84	1407.10	8.19	49.07	0.34	-5.30	382401.85	701963.79	
1498.00	6.45	48.64	1495.65	14.43	55.37	1.84	-11.16	382408.09	701970.09	
1587.00	6.72	54.75	1584.07	20.74	63.37	0.84	-16.99	382414.40	701978.09	
1677.00	6.18	53.09	1673.50	26.69	71.54	0.63	-22.45	382420.35	701986.26	
1766.00	5.79	56.04	1762.01	32.07	79.10	0.56	-27.38	382425.73	701993.82	
1856.00	5.31	54.16	1851.59	37.05	86.24	0.57	-31.93	382430.71	702000.96	
1945.00	5.14	56.04	1940.22	41.68	92.89	0.27	-36.17	382435.34	702007.61	
2035.00	4.61	55.35	2029.90	45.99	99.20	0.59	-40.10	382439.65	702013.92	
2124.00	5.23	57.50	2118.57	50.21	105.57	0.73	-43.93	382443.87	702020.29	
2214.00	5.10	61.38	2208.20	54.33	112.54	0.41	-47.64	382447.99	702027.26	
2303.00	6.27	54.53	2296.76	59.04	119.97	1.52	-51.91	382452.70	702034.69	
2392.00	6.85	53.11	2385.18	65.05	128.17	0.68	-57.42	382458.71	702042.89	
2482.00	6.28	53.35	2474.59	71.21	136.41	0.63	-63.09	382464.87	702051.13	
2571.00	5.94	54.90	2563.09	76.76	144.09	0.42	-68.18	382470.42	702058.81	
2661.00	5.40	49.48	2652.65	82.19	151.12	0.84	-73.19	382475.85	702065.84	
2750.00	5.12	50.64	2741.27	87.43	157.37	0.34	-78.06	382481.09	702072.09	
2839.00	6.69	50.86	2829.80	93.22	164.46	1.76	-83.42	382486.88	702079.18	
2929.00	7.21	51.44	2919.13	100.05	172.95	0.58	-89.74	382493.71	702087.67	
3018.00	6.71	50.04	3007.48	106.87	181.30	0.59	-96.06	382500.53	702096.02	
3107.00	6.46	53.14	3095.89	113.21	189.29	0.49	-101.93	382506.87	702104.01	
3197.00	6.26	57.43	3185.34	118.89	197.48	0.57	-107.12	382512.55	702112.20	
3286.00	5.69	55.88	3273.85	123.98	205.22	0.67	-111.74	382517.64	702119.94	
3376.00	5.50	54.33	3363.42	129.00	212.42	0.27	-116.33	382522.66	702127.14	
3465.00	5.03	52.72	3452.05	133.85	218.98	0.55	-120.78	382527.51	702133.70	

AUG 10 2013

ConocoPhillips

Weatherford
WFT Survey Report X & Y's

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Weatherford

Company: ConocoPhillips
Field: Lea Co, NM (Nad 27)
Site: Red Hills West 16 State #6H
Well: #6H
Wellpath: 1

Date: 2/10/2013 Time: 09:13:25 Page: 2
Co-ordinate(NE) Reference: Well: #6H, Grid North
Vertical (TVD) Reference: SITE 3218.0
Section (VS) Reference: Well (0.00N, 0.00E, 176.64Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
3554.00	4.46	52.90	3540.74	138.30	224.85	0.64	-124.88	382531.96	702139.57	
3644.00	4.06	51.88	3630.49	142.38	230.15	0.45	-128.64	382536.04	702144.87	
3733.00	3.45	53.66	3719.30	145.91	234.78	0.70	-131.90	382539.57	702149.50	
3823.00	3.50	58.77	3809.14	148.94	239.31	0.35	-134.66	382542.60	702154.03	
3912.00	1.33	45.29	3898.05	151.07	242.37	2.50	-136.61	382544.73	702157.09	
4002.00	1.09	29.12	3988.03	152.56	243.53	0.46	-138.02	382546.22	702158.25	
4091.00	1.00	67.59	4077.02	153.59	244.66	0.78	-138.99	382547.25	702159.38	
4181.00	1.58	93.60	4167.00	153.81	246.62	0.90	-139.09	382547.47	702161.34	
4270.00	0.22	33.96	4255.99	153.88	247.94	1.66	-139.08	382547.54	702162.66	
4359.00	0.56	355.96	4344.98	154.45	248.01	0.46	-139.65	382548.11	702162.73	
4449.00	0.35	24.96	4434.98	155.14	248.09	0.34	-140.33	382548.80	702162.81	
4505.00	0.29	84.87	4490.98	155.31	248.31	0.58	-140.49	382548.97	702163.03	
4612.00	0.44	6.66	4597.98	155.74	248.62	0.44	-140.90	382549.40	702163.34	
4702.00	0.62	7.53	4687.97	156.57	248.73	0.20	-141.72	382550.23	702163.45	
4791.00	0.35	324.67	4776.97	157.27	248.63	0.49	-142.42	382550.93	702163.35	
4881.00	0.22	321.84	4866.97	157.63	248.37	0.15	-142.80	382551.29	702163.09	
4970.00	0.17	241.83	4955.97	157.70	248.15	0.28	-142.88	382551.36	702162.87	
5060.00	0.28	233.28	5045.97	157.50	247.85	0.13	-142.71	382551.16	702162.57	
5149.00	0.62	232.49	5134.97	157.08	247.30	0.38	-142.32	382550.74	702162.02	
5238.00	0.71	221.56	5223.96	156.37	246.55	0.17	-141.66	382550.03	702161.27	
5328.00	0.71	226.46	5313.95	155.57	245.77	0.07	-140.90	382549.23	702160.49	
5417.00	0.98	189.70	5402.94	154.44	245.25	0.66	-139.80	382548.10	702159.97	
5506.00	1.15	184.54	5491.93	152.80	245.05	0.22	-138.18	382546.46	702159.77	
5596.00	1.17	189.22	5581.91	151.00	244.83	0.11	-136.39	382544.66	702159.55	
5685.00	1.09	185.07	5670.89	149.26	244.61	0.13	-134.66	382542.92	702159.33	
5775.00	1.19	181.69	5760.88	147.47	244.50	0.13	-132.88	382541.13	702159.22	
5864.00	1.27	184.69	5849.86	145.56	244.40	0.12	-130.99	382539.22	702159.12	
5954.00	1.20	192.85	5939.83	143.65	244.11	0.21	-129.09	382537.31	702158.83	
6043.00	0.86	179.22	6028.82	142.07	243.91	0.47	-127.53	382535.73	702158.63	
6177.00	1.49	219.65	6162.79	139.73	242.81	0.75	-125.25	382533.39	702157.53	
6267.00	1.67	215.94	6252.76	137.76	241.29	0.23	-123.38	382531.42	702156.01	
6356.00	1.74	205.65	6341.72	135.49	239.95	0.35	-121.20	382529.15	702154.67	
6445.00	1.57	210.66	6430.68	133.23	238.74	0.25	-119.01	382526.89	702153.46	
6535.00	1.45	195.01	6520.65	131.07	237.82	0.48	-116.90	382524.73	702152.54	
6624.00	1.94	198.99	6609.61	128.56	237.04	0.57	-114.44	382522.22	702151.76	
6714.00	1.91	210.48	6699.56	125.82	235.78	0.43	-111.79	382519.48	702150.50	
6803.00	1.94	218.03	6788.51	123.36	234.10	0.29	-109.42	382517.02	702148.82	
6893.00	2.26	217.63	6878.45	120.75	232.08	0.36	-106.94	382514.41	702146.80	
6988.00	2.11	214.86	6973.38	117.83	229.93	0.19	-104.15	382511.49	702144.65	
7078.00	2.32	185.01	7063.32	114.66	228.83	1.29	-101.05	382508.32	702143.55	
7167.00	2.82	183.28	7152.23	110.68	228.54	0.57	-97.09	382504.34	702143.26	
7257.00	1.23	219.97	7242.17	107.73	227.80	2.19	-94.19	382501.39	702142.52	
7346.00	1.05	235.89	7331.15	106.54	226.51	0.41	-93.08	382500.20	702141.23	
7435.00	1.05	211.71	7420.14	105.39	225.40	0.49	-92.00	382499.05	702140.12	
7525.00	1.49	214.30	7510.12	103.72	224.31	0.49	-90.39	382497.38	702139.03	
7614.00	1.23	218.21	7599.09	102.01	223.07	0.31	-88.76	382495.67	702137.79	
7699.00	1.19	194.12	7684.07	100.44	222.29	0.60	-87.24	382494.10	702137.01	
7791.00	1.19	188.93	7776.05	98.57	221.91	0.12	-85.39	382492.23	702136.63	
7880.00	0.79	140.11	7865.04	97.19	222.16	1.01	-84.00	382490.85	702136.88	
7970.00	0.20	173.82	7955.04	96.55	222.57	0.70	-83.34	382490.21	702137.29	
8059.00	0.26	129.35	8044.04	96.27	222.75	0.21	-83.05	382489.93	702137.47	
8149.00	0.14	264.57	8134.04	96.13	222.79	0.41	-82.91	382489.79	702137.51	

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ConocoPhillips

Weatherford
WFT Survey Report X & Y's

Weatherford RECEIVED

Company: ConocoPhillips
Field: Lea Co, NM (Nad 27)
Site: Red Hills West 16 State #6H
Well: #6H
Wellpath: 1

Date: 2/10/2013 Time: 09:13:25 Page: 3
Co-ordinate(NE) Reference: Well: #6H, Grid North
Vertical (TVD) Reference: SITE 3218.0
Section (VS) Reference: Well (0.00N,0.00E,176.64Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
8238.00	0.25	172.11	8223.04	95.93	222.71	0.33	-82.71	382489.59	702137.43	
8328.00	0.19	258.82	8313.04	95.71	222.59	0.34	-82.50	382489.37	702137.31	
8417.00	0.17	146.02	8402.04	95.57	222.52	0.34	-82.36	382489.23	702137.24	
8506.00	0.37	207.44	8491.04	95.20	222.46	0.37	-82.00	382488.86	702137.18	
8596.00	1.23	226.38	8581.03	94.28	221.63	0.99	-81.13	382487.94	702136.35	
8640.00	5.44	208.00	8624.94	92.11	220.31	9.75	-79.04	382485.77	702135.03	
8681.00	6.86	209.28	8665.71	88.26	218.20	3.48	-75.32	382481.92	702132.92	
8726.00	7.79	208.40	8710.34	83.23	215.43	2.08	-70.46	382476.89	702130.15	
8770.00	7.97	204.20	8753.92	77.83	212.76	1.37	-65.22	382471.49	702127.48	
8815.00	11.36	205.44	8798.28	70.98	209.58	7.55	-58.57	382464.64	702124.30	
8860.00	14.63	207.50	8842.12	61.93	205.05	7.34	-49.81	382455.59	702119.77	
8904.00	17.55	212.45	8884.39	51.40	198.92	7.33	-39.65	382445.06	702113.64	
8949.00	22.09	212.27	8926.72	38.51	190.76	10.09	-27.27	382432.17	702105.48	
8994.00	26.08	209.96	8967.79	22.78	181.30	9.11	-12.12	382416.44	702096.02	
9039.00	29.68	206.04	9007.57	4.20	171.47	8.97	5.86	382397.86	702086.19	
9083.00	33.44	203.05	9045.05	-16.76	161.93	9.25	26.22	382376.90	702076.65	
9128.00	36.88	200.37	9081.84	-40.83	152.38	8.38	49.69	382352.83	702067.10	
9172.00	40.13	195.74	9116.27	-66.87	143.93	9.87	75.19	382326.79	702058.65	
9217.00	44.68	193.60	9149.50	-96.22	136.27	10.61	104.04	382297.44	702050.99	
9262.00	48.83	191.43	9180.32	-128.22	129.19	9.87	135.57	382265.44	702043.91	
9307.00	52.05	187.62	9208.98	-162.42	123.48	9.68	169.38	382231.24	702038.20	
9351.00	55.41	183.56	9235.02	-197.71	120.05	10.66	204.41	382195.95	702034.77	
9396.00	59.65	180.75	9259.17	-235.64	118.65	10.79	242.18	382158.02	702033.37	
9441.00	64.71	178.58	9280.17	-275.42	118.90	12.03	281.91	382118.24	702033.62	
9485.00	68.64	175.80	9297.59	-315.76	120.89	10.65	322.30	382077.90	702035.61	
9530.00	72.52	171.94	9312.56	-357.94	125.44	11.82	364.67	382035.72	702040.16	
9575.00	77.66	171.23	9324.13	-400.94	131.80	11.52	407.97	381992.72	702046.52	
9619.00	81.64	169.16	9332.03	-443.58	139.18	10.16	450.97	381950.08	702053.90	
9676.00	86.64	166.79	9337.85	-499.01	150.99	9.70	507.00	381894.65	702065.71	
9728.00	89.75	165.53	9339.49	-549.47	163.42	6.45	558.10	381844.19	702078.14	
9819.00	90.12	167.58	9339.59	-637.97	184.58	2.29	647.69	381755.69	702099.30	
9910.00	90.31	167.71	9339.25	-726.86	204.05	0.25	737.57	381666.80	702118.77	
10001.00	90.31	171.53	9338.76	-816.36	220.44	4.20	827.87	381577.30	702135.16	
10091.00	90.56	175.82	9338.08	-905.78	230.36	4.77	917.73	381487.88	702145.08	
10182.00	89.94	178.59	9337.68	-996.67	234.79	3.12	1008.71	381396.99	702149.51	
10273.00	89.91	181.54	9337.80	-1087.66	234.69	3.24	1099.54	381306.00	702149.41	
10364.00	90.31	183.95	9337.62	-1178.54	230.33	2.68	1190.02	381215.12	702145.05	
10454.00	90.49	181.69	9337.00	-1268.43	225.90	2.52	1279.49	381125.23	702140.62	
10545.00	90.19	179.57	9336.46	-1359.42	224.90	2.35	1370.26	381034.24	702139.62	
10636.00	89.63	180.76	9336.60	-1450.41	224.64	1.45	1461.09	380943.25	702139.36	
10727.00	89.88	182.44	9336.99	-1541.37	222.10	1.87	1551.74	380852.29	702136.82	
10817.00	90.00	180.31	9337.08	-1631.34	219.94	2.37	1641.43	380762.32	702134.66	
10908.00	89.81	178.57	9337.23	-1722.33	220.83	1.92	1732.32	380671.33	702135.55	
10999.00	90.37	177.99	9337.09	-1813.29	223.56	0.89	1823.28	380580.37	702138.28	
11089.00	90.31	178.48	9336.56	-1903.25	226.33	0.55	1913.24	380490.41	702141.05	
11180.00	90.80	178.23	9335.67	-1994.21	228.95	0.60	2004.20	380399.45	702143.67	
11270.00	90.25	177.16	9334.85	-2084.13	232.57	1.34	2094.18	380309.53	702147.29	
11361.00	89.82	175.90	9334.79	-2174.96	238.07	1.46	2185.17	380218.70	702152.79	
11452.00	90.43	177.70	9334.60	-2265.81	243.15	2.09	2276.17	380127.85	702157.87	
11541.00	90.86	179.32	9333.59	-2354.77	245.47	1.88	2365.11	380038.89	702160.19	
11632.00	89.94	180.45	9332.96	-2445.77	245.65	1.60	2455.96	379947.89	702160.37	
11722.00	90.12	182.35	9332.91	-2535.74	243.45	2.12	2545.65	379857.92	702158.17	
11813.00	90.00	181.37	9332.82	-2626.69	240.50	1.08	2636.27	379766.97	702155.22	

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ConocoPhillips

Weatherford

WFT Survey Report X & Y's



Weatherford RECEIVED

Company: ConocoPhillips
 Field: Lea Co, NM (Nad 27)
 Site: Red Hills West 16 State #6H
 Well: #6H
 Wellpath: 1

Date: 2/10/2013 Time: 09:13:25 Page: 4
 Co-ordinate(NE) Reference: Well: #6H, Grid North
 Vertical (TVD) Reference: SITE 3218.0
 Section (VS) Reference: Well (0.00N,0.00E,176.64Azi)
 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azlm deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
11904.00	90.00	180.55	9332.82	-2717.67	238.97	0.90	2727.01	379675.99	702153.69	
11994.00	89.94	179.25	9332.86	-2807.67	239.13	1.45	2816.86	379585.99	702153.85	
12085.00	89.88	177.06	9333.01	-2898.62	242.06	2.41	2907.82	379495.04	702156.78	
12176.00	89.94	176.51	9333.15	-2989.48	247.16	0.61	2998.82	379404.18	702161.88	
12266.00	89.63	175.80	9333.49	-3079.27	253.20	0.86	3088.82	379314.39	702167.92	
12357.00	89.20	176.42	9334.42	-3170.06	259.37	0.83	3179.81	379223.60	702174.09	
12448.00	88.89	178.00	9335.93	-3260.93	263.80	1.77	3270.79	379132.73	702178.52	
12538.00	88.34	177.43	9338.11	-3350.84	267.39	0.88	3360.75	379042.82	702182.11	
12629.00	88.64	177.37	9340.51	-3441.71	271.51	0.34	3451.71	378951.95	702186.23	
12720.00	89.32	180.81	9342.13	-3532.67	272.96	3.85	3542.59	378860.99	702187.68	
12811.00	89.75	180.97	9342.86	-3623.66	271.54	0.50	3633.34	378770.00	702186.26	
12901.00	90.12	181.19	9342.97	-3713.64	269.85	0.48	3723.07	378680.02	702184.57	
12992.00	90.19	181.39	9342.72	-3804.62	267.80	0.23	3813.77	378589.04	702182.52	
13083.00	88.83	180.74	9343.50	-3895.59	266.11	1.66	3904.49	378498.07	702180.83	
13173.00	88.52	180.30	9345.58	-3985.57	265.29	0.60	3994.26	378408.09	702180.01	
13264.00	89.69	180.37	9347.00	-4076.55	264.76	1.29	4085.06	378317.11	702179.48	
13355.00	90.12	179.93	9347.15	-4167.55	264.52	0.68	4175.89	378226.11	702179.24	
13446.00	89.63	179.74	9347.35	-4258.55	264.78	0.58	4266.75	378135.11	702179.50	
13536.00	89.14	178.82	9348.32	-4348.54	265.91	1.16	4356.65	378045.12	702180.63	
13627.00	88.58	177.41	9350.13	-4439.47	268.91	1.67	4447.60	377954.19	702183.63	
13718.00	89.26	177.74	9351.84	-4530.37	272.76	0.83	4538.57	377863.29	702187.48	
13809.00	90.74	178.35	9351.84	-4621.31	275.86	1.76	4629.54	377772.35	702190.58	
13900.00	90.71	178.01	9350.69	-4712.26	278.75	0.38	4720.50	377681.40	702193.47	
13988.00	90.93	177.48	9349.43	-4800.18	282.21	0.65	4808.47	377593.48	702196.93	Last Wft Svy
14012.00	90.93	177.48	9349.04	-4824.16	283.27	0.00	4832.46	377569.50	702197.99	Proj. To Bit

Annotation

MD ft	TVD ft	
892.00	891.52	Tie On
962.00	961.44	First Wft Svy
13988.00	9349.43	Last Wft Svy
14012.00	9349.04	Proj. To Bit