

Results of Directional Survey

API number:	30-025-40411		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	RED HILLS WEST 16 STATE # 2H

surface	ULSTR:	C	16	T	26S	R	32E
				180	FNL	1960	FWL

BH Loc	ULSTR:	N	16	T	26S	R	32E
13400	MD	8941.0	TVD	276	FSL	1739	FWL
				5004	FNL		

Top Perf/OH	ULSTR:	C	16	T	26S	R	32E
9334	MD	8965.1	TVD	941	FNL	1745	FWL

Bot Perf/OH	ULSTR:	N	16	T	26S	R	32E
13360	MD	8941.2	TVD	316	FSL	1736	FWL
				4964	FNL		

	MD	N/S	E/W	VD
	9276	-702.70	-213.70	8961.9
TOP PERFS/OH	9334	-760.57	-214.84	8965.11
	9395	-821.43	-216.04	8968.49
	13293	-4717.09	-228.41	8941.48
BOT PERFS/OH	13360	-4783.94	-223.98	8941.23
	13373	-4796.91	-223.12	8941.18

NEXT TO LAST	13373	-4796.91	-223.12	8941.18
LAST READING	13400	-4823.78	-220.54	8941.04
TD	13400	-4823.78	-220.54	8941.04

Surface Location	180	FN	1960	FW
Projected BHL	5004	FN	1739	FW
Location of				
Top Perfs/OH	941	FN	1745	FW
Bottom Perfs/OH	4964	FN	1736	FW

SUMMARY of Subsurface Locations

Surface Location	C-16-26S-32E	180	FN	1960	FW	Vert. Depth
Top Perfs/OH	C-16-26S-32E	941	FN	1745	FW	8965.11
Bottom Perfs/OH	N-16-26S-32E	4964	FN	1736	FW	8941.23
Projected TD	N-16-26S-32E	5004	FN	1739	FW	8941.04

SEP 05 2013



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

Conoco Phillips
600 N Dairy Ashford
Houston TX, 77097

Date: February 11, 2013

HOBBS OCD

Attention: Salvatore Amico

JUN 28 2013

Re: Conoco Phillips
Well: Red Hills West 16 State #2H
Lea County, New Mexico

RECEIVED

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:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Vincent Stoker MWD Supervisor	2H	9395' MD 13373' MD	1/1/2013 1/7/2013	Measurement While Drilling

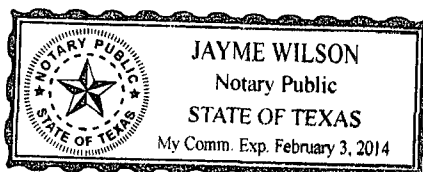
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Ops Coordinator

On this, the 11th 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





Red Hills West 16 State #2H
Lea Co., New Mexico

HOBBS OCD
JUN 28 2013
RECEIVED

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9325.00	89.90	182.40	8962.00	-751.70	-215.70	0.00	0.00	761.03	
2	9408.53	88.78	180.16	8962.96	-835.20	-217.57	3.00	243.35	844.52	
3	9764.44	88.78	180.16	8970.57	-1191.03	-218.56	0.00	0.00	1200.00	
4	9805.24	90.00	180.16	8971.00	-1231.82	-218.67	3.00	-0.18	1240.75	
5	13409.83	90.00	180.16	8971.00	-4836.40	-228.50	0.00	0.00	4841.79	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Red Hills West 16 State #2H	0.00	0.00	382393.40	701864.70	32°02'58.704N	103°40'54.482W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	8971.00	-4836.40	-228.50	377557.00	701636.20	Point

LEGEND

 Red Hills West 16 State #2H, I, Plan #3
 Red Hills West 16 State #2H, I, DDC Svy
 #6H (1)
 1 Wft Svy

SITE DETAILS

Red Hills West 16 State #2H
Site Centre Northing: 382393.40
Easting: 701864.70
Ground Level: 3203.00
Positional Uncertainty: 0.00
Convergence: 0.35

Survey: Wft Svy (Red Hills West 16 State #2H/I)

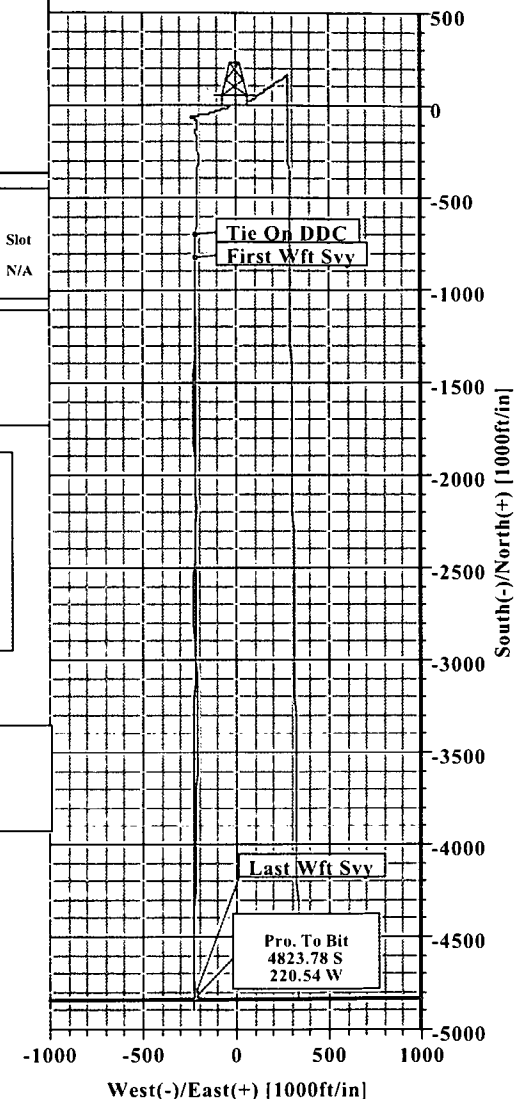
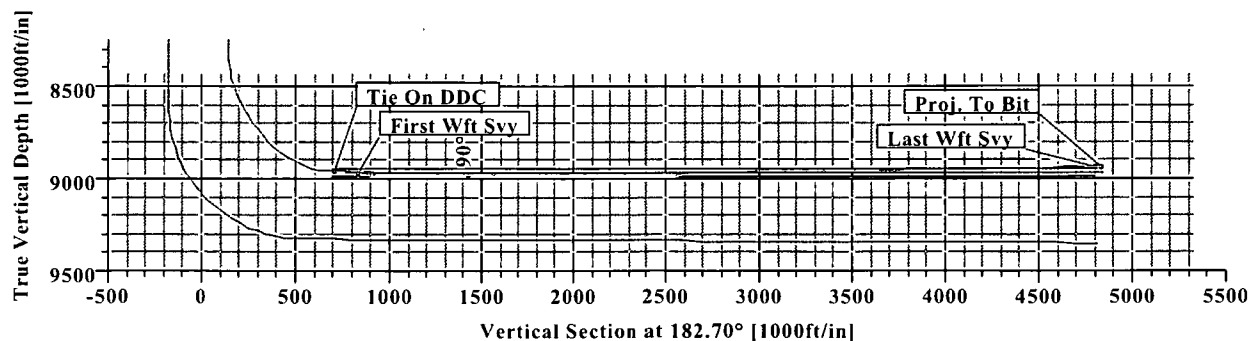
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
47	13400.00	90.31	174.52	8941.04	-4823.78	-220.54	0.00	0.00	4828.82



KB ELEV: 3219
GL ELEV: 3203



Weatherford



Survey: Wft Svy (Red Hills West 16 State #2H/I)

Created By: Russell W. Joyner

Date: 1/6/2013



Company: ConocoPhillips	Date: 1/6/2013	Time: 10:32:41	Page: 1
Field: Lea Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: Red Hills West 16 State #2H		
Site: Red Hills West 16 State #2H	Vertical (TVD) Reference: SITE 3219.0		
Well: Red Hills West 16 State #2H	Section (VS) Reference: Well (0.00N,0.00E,182.70Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 1/4/2013
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: User Defined

HOBBS OCD

JUN 28 2013

RECEIVED

Site: Red Hills West 16 State #2H

Site Position:	Northing: 382393.40 ft	Latitude: 32 2 58.704 N
From: Map	Easting: 701864.70 ft	Longitude: 103 40 54.482 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3203.00 ft		Grid Convergence: 0.35 deg

Well: Red Hills West 16 State #2H

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 382393.40 ft	Latitude: 32 2 58.704 N
+E/-W 0.00 ft	Easting: 701864.70 ft	Longitude: 103 40 54.482 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 3219.00 ft	Drilled From: Surface
Magnetic Data: 12/29/2012		Tie-on Depth: 0.00 ft
Field Strength: 48353 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S ft	Declination: 7.54 deg
		Mag Dip Angle: 59.92 deg
		+E/-W ft
		Direction deg
0.00	0.00	0.00 182.70

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
9276.00	89.90	182.40	8961.90	-702.70	-213.70	0.00	711.99	381690.70	701651.00	Tie On DDC
9395.00	83.75	179.85	8968.49	-821.43	-216.04	5.59	830.69	381571.97	701648.66	First Wft Svy
9486.00	87.53	181.20	8975.41	-912.14	-216.87	4.41	921.35	381481.26	701647.83	
9577.00	88.70	180.73	8978.40	-1003.08	-218.40	1.39	1012.25	381390.32	701646.30	
9667.00	88.83	180.35	8980.34	-1093.05	-219.25	0.45	1102.17	381300.35	701645.45	
9758.00	89.56	180.84	8981.62	-1184.04	-220.20	0.97	1193.10	381209.36	701644.50	
9849.00	89.82	181.37	8982.11	-1275.02	-221.95	0.65	1284.06	381118.38	701642.75	
9940.00	89.56	180.67	8982.60	-1366.00	-223.57	0.82	1375.02	381027.40	701641.13	
10030.00	90.37	181.08	8982.66	-1455.99	-224.95	1.01	1464.97	380937.41	701639.75	
10121.00	90.18	180.63	8982.22	-1546.98	-226.30	0.54	1555.92	380846.42	701638.40	
10211.00	90.18	179.95	8981.94	-1636.98	-226.76	0.76	1645.84	380756.42	701637.94	
10302.00	90.06	179.15	8981.75	-1727.97	-226.05	0.89	1736.70	380665.43	701638.65	
10393.00	89.88	178.41	8981.79	-1818.95	-224.11	0.84	1827.49	380574.45	701640.59	
10483.00	90.06	177.38	8981.84	-1908.89	-220.80	1.16	1917.17	380484.51	701643.90	
10574.00	90.06	177.81	8981.75	-1999.81	-216.98	0.47	2007.81	380393.59	701647.72	
10665.00	90.43	178.40	8981.36	-2090.76	-213.97	0.77	2098.52	380302.64	701650.73	
10755.00	90.37	179.97	8980.73	-2180.74	-212.69	1.75	2188.34	380212.66	701652.01	
10846.00	91.06	182.96	8979.59	-2271.70	-215.02	3.37	2279.30	380121.70	701649.68	
10937.00	91.17	183.05	8977.82	-2362.55	-219.79	0.16	2370.29	380030.85	701644.91	
11028.00	91.11	181.92	8976.01	-2453.45	-223.73	1.24	2461.27	379939.95	701640.97	
11118.00	91.30	181.81	8974.12	-2543.38	-226.66	0.24	2551.24	379850.02	701638.04	
11209.00	91.05	180.17	8972.25	-2634.35	-228.24	1.82	2642.17	379759.05	701636.46	
11300.00	92.04	179.03	8969.80	-2725.31	-227.60	1.66	2733.00	379668.09	701637.10	
11390.00	91.73	176.89	8966.84	-2815.20	-224.40	2.40	2822.64	379578.20	701640.30	
11481.00	91.73	176.60	8964.09	-2906.01	-219.23	0.32	2913.11	379487.39	701645.47	
11572.00	91.54	176.83	8961.50	-2996.82	-214.02	0.33	3003.58	379396.58	701650.68	
11662.00	90.68	178.37	8959.75	-3086.72	-210.25	1.96	3093.20	379306.68	701654.45	
11752.00	90.12	178.70	8959.12	-3176.69	-207.95	0.72	3182.96	379216.71	701656.75	
11843.00	90.37	178.22	8958.73	-3267.66	-205.51	0.59	3273.71	379125.74	701659.19	
11933.00	90.31	179.74	8958.20	-3357.64	-203.90	1.69	3363.52	379035.76	701660.80	



Company: ConocoPhillips	Date: 1/6/2013	Time: 10:32:41	Page: 2
Field: Lea Co, NM (Nad 27)	Co-ordinate(NE) Reference: Well: Red Hills West 16 State #2H		
Site: Red Hills West 16 State #2H	Vertical (TVD) Reference: SITE 3219.0		
Well: Red Hills West 16 State #2H	Section (VS) Reference: Well (0.00N,0.00E,182.70Azi)		
Wellpath: 1	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
12024.00	90.93	182.29	8957.22	-3448.61	-205.52	2.88	3454.46	378944.79	701659.18	
12115.00	90.71	181.55	8955.91	-3539.55	-208.57	0.85	3545.45	378853.85	701656.13	
12205.00	90.62	182.44	8954.87	-3629.49	-211.70	0.99	3635.43	378763.91	701653.00	
12296.00	90.93	183.21	8953.64	-3720.37	-216.18	0.91	3726.42	378673.03	701648.52	
12386.00	90.86	180.78	8952.23	-3810.30	-219.31	2.70	3816.40	378583.10	701645.39	
12477.00	90.79	179.96	8950.92	-3901.28	-219.90	0.90	3907.31	378492.12	701644.80	
12568.00	90.74	179.65	8949.71	-3992.28	-219.59	0.35	3998.19	378401.12	701645.11	
12659.00	91.06	180.67	8948.28	-4083.26	-219.85	1.17	4089.09	378310.14	701644.85	
12749.00	91.05	180.82	8946.62	-4173.24	-221.02	0.17	4179.02	378220.16	701643.68	
12840.00	90.37	181.26	8945.49	-4264.22	-222.67	0.89	4269.97	378129.18	701642.03	
12931.00	90.62	182.23	8944.71	-4355.17	-225.44	1.10	4360.95	378038.23	701639.26	
13021.00	90.68	180.76	8943.68	-4445.13	-227.79	1.63	4450.93	377948.27	701636.91	
13112.00	90.37	180.71	8942.85	-4536.12	-228.95	0.35	4541.87	377857.28	701635.75	
13203.00	90.62	180.35	8942.06	-4627.11	-229.80	0.48	4632.80	377766.29	701634.90	
13293.00	90.12	177.89	8941.48	-4717.09	-228.41	2.79	4722.62	377676.31	701636.29	
13373.00	90.31	174.52	8941.18	-4796.91	-223.12	4.22	4802.09	377596.49	701641.58	Last Wft Svy
13400.00	90.31	174.52	8941.04	-4823.78	-220.54	0.00	4828.82	377569.62	701644.16	Proj. To Bit

Annotation

MD ft	TVD ft		
9276.00	8961.90	Tie On DDC	HOBBS OCD
9395.00	8968.49	First Wft Svy	
13373.00	8941.18	Last Wft Svy	
13400.00	8941.04	Proj. To Bit	JUN 28 2013

RECEIVED