

Daniel Harwell
1285 Derrick Dr.
Casper, Wy. 82604
Tel. (307) 265-3145
Fax (307) 265-3150



DIRECTIONAL SURVEY REPORT

BILL BARRETT CORPORATION

SIEBRING 5-63-32-32H

WELD COUNTY, CO

PREPARED BY: MICHAEL FLOWERS

Daniel Harwell
1285 Derrick Dr.
Casper, Wy. 82604
Tel. (307) 265-3145
Fax (307) 265-3150

September 5, 2012

Bill Barrett Corporation
1099 18th St. Suite 2300
Denver, Colorado 80202
Phone: (303) 312-8174

Attn: Doug Sproul

RE: BILL BARRETT CORPORATION
SIEBRING 5-63-32-32H
WELD COUNTY, CO
API NO: 05-123-35260
RIG: H & P 278
PES FILE NO.: 12CAS0039

Dear Mr. Sproul:

The data and calculations for the enclosed surveys have been checked by me and conform to the calibration standards and operational procedures set forth by Pathfinder Energy Services. I am authorized and qualified to review the data, calculations, and this report, and that the report represents a true and correct directional survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore coordinates are calculated using minimum curvature method.

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (307) 265-3145.

Sincerely,



Michael Flowers
M/LWD Service Coordinator
PathFinder Energy Services

Date Signed: 09/05/12

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DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. PES FILE NO.: 12CAS0039
3. JOB TYPE: DIRECTIONAL ONLY
4. NAME OF PERSON(S) PERFORMING SURVEY:
A) SEAN SALISBURY
B) BILL SCHMIDT
5. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
6. DATE(S) ON WHICH SURVEY WAS PERFORMED: 06/20/12 TO 07/16/12
7. STATE IN WHICH SURVEY WAS PERFORMED: COLORADO
8. COMPLETE IDENTIFICATION OF WELL:

BILL BARRETT CORPORATION
SIEBRING 5-63-32-32H
WELD COUNTY, CO
API NO: 05-123-35260
RIG: H & P 278
PES FILE NO.: 12CAS0039
10. TYPE OF SURVEY(S) PERFORMED: MWD
11. SURVEY CERTIFIED FROM: 1,611 TO 10,809 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,468.36 FEET ON A BEARING OF 266.59 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT PROJECTED TO BIT DEPTH OF 10,809 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



MICHAEL FLOWERS
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 06/20/2012
Date Completed: 07/16/2012

BILL BARRETT CORPORATION
SIEBRING 5-63-32-32H
WELD COUNTY, CO
Rig:H & P 278
PathFinder Office Supervisor: MICHAEL FLOWERS
PathFinder Field Engineers:SEAN SALISBURY
BILL SCHMIDT

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:40.21.27.9360 N LON:104.27.4.5360 W
GRID Reference:NAD83 colorado north Lambert
Ref GRID Coord: X: 3292260.1265 Y: 1374900.8314
North Aligned To:TRUE NORTH
Total Magnetic Correction: 8.56° EAST TO TRUE
Vertical Section Plane: 266.91
Survey Vert. Reference: 24.00' Rotary Table To Ground
Altitude:4570.00' Ground To MSL

Measured Depth	10809.00	(feet)
Inclination	88.55	(deg)
Azimuth	267.31	(deg)
True Vertical Depth	6390.75	(feet)
Vertical Section	4468.29	(feet)
Survey X cord	3287799.70	(feet)
Survey Y cord	1374634.79	(feet)
Survey Lat	40.35717346 N	(deg)
Survey Lon	104.46727537 W	(deg)
Rectangular Corr. N/S	266.04 S	(feet)
Rectangular Corr. E/W	4460.43 W	(feet)
Closure Distance	4468.36	(feet)
Direction of Closure	266.59	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

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 Altitude:4570.00' Ground To MSL

Survey Calculations by RX5 V6.04A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir		DLS (dg/100ft)
						(ft)	(ft)			(ft)	(deg)	
THE FOLLOWING ARE EXTREME ENGINEERING EM SURVEYS.												
232.00	0.62	111.25	232.00	0.00	-1.15	0.46 S	1.17 E	40.35775871 N	104.45125581 W	1.26@	111.29	0.00
322.00	0.40	81.76	322.00	90.00	-1.90	0.59 S	1.94 E	40.35775832 N	104.45125307 W	2.02@	106.89	0.37
412.00	0.31	102.64	411.99	90.00	-2.45	0.60 S	2.49 E	40.35775828 N	104.45125111 W	2.56@	103.50	0.17
503.00	1.19	129.36	502.99	91.00	-3.38	1.25 S	3.46 E	40.35775646 N	104.45124765 W	3.68@	109.88	1.01
594.00	2.42	146.54	593.94	91.00	-5.05	3.45 S	5.25 E	40.35775035 N	104.45124132 W	6.28@	123.34	1.46
685.00	3.38	143.86	684.82	91.00	-7.49	7.22 S	7.89 E	40.35773992 N	104.45123200 W	10.69@	132.47	1.07
776.00	3.12	147.55	775.68	91.00	-10.16	11.48 S	10.80 E	40.35772815 N	104.45122174 W	15.76@	136.74	0.37
868.00	3.12	147.77	867.54	92.00	-12.61	15.71 S	13.48 E	40.35771645 N	104.45121231 W	20.70@	139.37	0.01
960.00	3.21	144.96	959.40	92.00	-15.19	19.93 S	16.29 E	40.35770475 N	104.45120239 W	25.75@	140.74	0.20
1054.00	2.99	140.96	1053.26	94.00	-18.03	23.99 S	19.35 E	40.35769351 N	104.45119160 W	30.82@	141.12	0.33
1148.00	2.68	144.87	1147.15	94.00	-20.63	27.70 S	22.16 E	40.35768326 N	104.45118168 W	35.47@	141.34	0.39
1242.00	3.30	148.25	1241.02	94.00	-23.09	31.79 S	24.84 E	40.35767193 N	104.45117221 W	40.35@	142.00	0.68
1337.00	3.12	147.86	1335.87	95.00	-25.66	36.31 S	27.66 E	40.35765944 N	104.45116230 W	45.64@	142.70	0.19
1431.00	2.59	144.03	1429.75	94.00	-28.06	40.19 S	30.27 E	40.35764870 N	104.45115311 W	50.31@	143.02	0.60
** TIED INTO EXTREME ENGINEERING AT 1510'MD												
1510.00	2.29	138.54	1508.68	79.00	-30.00	42.82 S	32.36 E	40.35764142 N	104.45114571 W	53.67@	142.92	0.48
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
1611.00	2.29	141.36	1609.60	101.00	-32.43	45.91 S	34.96 E	40.35763285 N	104.45113652 W	57.70@	142.71	0.11
1706.00	4.22	147.25	1704.44	95.00	-35.26	50.33 S	38.03 E	40.35762061 N	104.45112567 W	63.08@	142.92	2.06
1800.00	3.87	145.41	1798.21	94.00	-38.63	55.85 S	41.70 E	40.35760534 N	104.45111273 W	69.70@	143.25	0.40
1894.00	3.52	144.70	1892.01	94.00	-41.83	60.82 S	45.17 E	40.35759160 N	104.45110050 W	75.76@	143.40	0.38
1989.00	2.55	147.96	1986.88	95.00	-44.41	64.99 S	47.98 E	40.35758006 N	104.45109061 W	80.78@	143.56	1.04
2083.00	1.58	156.39	2080.82	94.00	-45.87	67.95 S	49.61 E	40.35757188 N	104.45108489 W	84.13@	143.87	1.08
2177.00	1.76	251.23	2174.79	94.00	-44.94	69.60 S	48.76 E	40.35756737 N	104.45108800 W	84.98@	144.99	2.62
2272.00	2.29	140.57	2269.76	95.00	-44.66	71.54 S	48.58 E	40.35756206 N	104.45108872 W	86.48@	145.82	3.52
2366.00	2.81	140.22	2363.66	94.00	-47.15	74.76 S	51.25 E	40.35755313 N	104.45107928 W	90.64@	145.57	0.55
2460.00	4.57	144.35	2457.47	94.00	-50.54	79.57 S	54.91 E	40.35753980 N	104.45106637 W	96.68@	145.39	1.89

PathFinder Energy Services, Inc.

Survey Report

BILL BARRETT CORPORATION
 SIEBRING 5-63-32-32H
 WELD COUNTY, CO
 RIG:H & P 278

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2554.00	4.40	143.12	2551.18	94.00	-54.56	85.50 S	59.25 E	40.35752339 N	104.45105102 W	104.03@	145.28	0.21
2649.00	4.31	144.53	2645.90	95.00	-58.50	91.32 S	63.51 E	40.35750727 N	104.45103599 W	111.24@	145.18	0.15
2743.00	3.96	143.21	2739.66	94.00	-62.19	96.80 S	67.51 E	40.35749211 N	104.45102189 W	118.01@	145.11	0.39
2837.00	3.78	157.45	2833.45	94.00	-65.02	102.26 S	70.64 E	40.35747702 N	104.45101089 W	124.29@	145.36	1.04
2931.00	3.43	161.75	2927.26	94.00	-66.79	107.79 S	72.71 E	40.35746177 N	104.45100370 W	130.02@	146.00	0.47
3025.00	2.99	139.69	3021.12	94.00	-69.01	112.33 S	75.17 E	40.35744922 N	104.45099504 W	135.17@	146.21	1.38
3119.00	2.81	134.95	3115.00	94.00	-72.03	115.83 S	78.39 E	40.35743952 N	104.45098365 W	139.86@	145.91	0.32
3213.00	3.34	135.04	3208.86	94.00	-75.40	119.39 S	81.96 E	40.35742962 N	104.45097100 W	144.82@	145.53	0.56
3307.00	3.78	137.32	3302.68	94.00	-79.20	123.61 S	85.99 E	40.35741792 N	104.45095670 W	150.58@	145.17	0.49
3401.00	4.13	140.57	3396.45	94.00	-83.18	128.50 S	90.24 E	40.35740435 N	104.45094166 W	157.02@	144.92	0.44
3496.00	4.40	141.28	3491.19	95.00	-87.33	133.99 S	94.69 E	40.35738915 N	104.45092592 W	164.07@	144.75	0.29
3590.00	4.48	143.74	3584.91	94.00	-91.44	139.76 S	99.12 E	40.35737316 N	104.45091028 W	171.34@	144.66	0.22
3684.00	4.31	147.87	3678.63	94.00	-95.17	145.71 S	103.17 E	40.35735669 N	104.45089600 W	178.54@	144.70	0.38
3778.00	3.34	154.37	3772.42	94.00	-97.93	151.17 S	106.23 E	40.35734160 N	104.45088524 W	184.77@	144.90	1.13
3873.00	2.55	163.86	3867.30	95.00	-99.47	155.70 S	108.02 E	40.35732912 N	104.45087903 W	189.50@	145.25	0.97
3967.00	3.61	165.00	3961.16	94.00	-100.55	160.57 S	109.37 E	40.35731572 N	104.45087441 W	194.27@	145.74	1.13
4061.00	3.17	174.76	4055.00	94.00	-101.26	166.01 S	110.37 E	40.35730074 N	104.45087104 W	199.35@	146.38	0.77
4155.00	2.46	183.81	4148.88	94.00	-101.12	170.61 S	110.47 E	40.35728810 N	104.45087086 W	203.26@	147.08	0.89
4250.00	2.90	180.91	4243.78	95.00	-100.70	175.05 S	110.30 E	40.35727593 N	104.45087167 W	206.90@	147.79	0.48
4344.00	2.55	206.49	4337.68	94.00	-99.50	179.30 S	109.33 E	40.35726430 N	104.45087534 W	210.00@	148.63	1.33
4438.00	2.55	226.53	4431.58	94.00	-96.88	182.61 S	106.88 E	40.35725529 N	104.45088427 W	211.59@	149.66	0.94
4532.00	2.11	225.91	4525.51	94.00	-93.98	185.25 S	104.12 E	40.35724813 N	104.45089428 W	212.51@	150.66	0.47
4626.00	1.85	190.14	4619.45	94.00	-92.33	187.95 S	102.61 E	40.35724077 N	104.45089982 W	214.14@	151.37	1.32
4721.00	1.67	179.68	4714.41	95.00	-91.91	190.84 S	102.35 E	40.35723284 N	104.45090088 W	216.56@	151.80	0.39
4815.00	2.02	134.16	4808.36	94.00	-92.97	193.37 S	103.54 E	40.35722587 N	104.45089670 W	219.35@	151.83	1.56
4909.00	1.85	121.06	4902.31	94.00	-95.35	195.31 S	106.03 E	40.35722047 N	104.45088785 W	222.23@	151.50	0.50
5004.00	2.81	88.89	4997.24	95.00	-98.94	196.05 S	109.67 E	40.35721831 N	104.45087481 W	224.64@	150.78	1.67
5098.00	2.02	78.61	5091.15	94.00	-102.89	195.68 S	113.60 E	40.35721920 N	104.45086071 W	226.26@	149.86	0.96
5192.00	1.41	75.80	5185.11	94.00	-105.66	195.07 S	116.35 E	40.35722079 N	104.45085083 W	227.13@	149.19	0.65

PathFinder Energy Services, Inc.

Survey Report

BILL BARRETT CORPORATION
 SIEBRING 5-63-32-32H
 WELD COUNTY, CO
 RIG:H & P 278

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
						(ft)	(ft)			(ft)	(deg)	
5286.00	1.41	66.30	5279.08	94.00	-107.88	194.32 S	118.53 E	40.35722277 N	104.45084298 W	227.62@	148.62	0.25
5380.00	1.67	23.33	5373.05	94.00	-109.57	192.60 S	120.13 E	40.35722745 N	104.45083716 W	226.99@	148.05	1.23
5475.00	1.41	16.56	5468.02	95.00	-110.58	190.21 S	121.01 E	40.35723398 N	104.45083389 W	225.44@	147.54	0.33
5569.00	1.23	25.61	5561.99	94.00	-111.45	188.19 S	121.77 E	40.35723950 N	104.45083106 W	224.15@	147.09	0.29
5663.00	0.88	321.01	5655.98	94.00	-111.51	186.72 S	121.76 E	40.35724354 N	104.45083106 W	222.91@	146.89	1.24
5758.00	2.02	275.75	5750.95	95.00	-109.43	185.98 S	119.63 E	40.35724562 N	104.45083865 W	221.14@	147.25	1.61
5802.00	1.67	276.27	5794.93	44.00	-108.03	185.83 S	118.22 E	40.35724607 N	104.45084370 W	220.25@	147.54	0.80
5820.00	1.41	267.66	5812.92	18.00	-107.55	185.82 S	117.74 E	40.35724614 N	104.45084543 W	219.98@	147.64	1.93
5852.00	1.67	257.91	5844.91	32.00	-106.70	185.93 S	116.89 E	40.35724586 N	104.45084848 W	219.62@	147.84	1.15
5883.00	6.16	248.06	5875.83	31.00	-104.68	186.65 S	114.91 E	40.35724396 N	104.45085564 W	219.18@	148.38	14.59
5915.00	10.82	250.87	5907.47	32.00	-100.16	188.27 S	110.47 E	40.35723963 N	104.45087161 W	218.29@	149.60	14.62
5946.00	14.86	254.21	5937.69	31.00	-93.49	190.31 S	103.90 E	40.35723426 N	104.45089530 W	216.82@	151.37	13.24
5977.00	19.52	255.27	5967.29	31.00	-84.53	192.71 S	95.06 E	40.35722796 N	104.45092711 W	214.88@	153.74	15.07
6009.00	18.73	253.69	5997.53	32.00	-74.29	195.51 S	84.95 E	40.35722060 N	104.45096348 W	213.17@	156.51	2.95
6041.00	16.18	236.55	6028.07	32.00	-65.44	199.41 S	76.30 E	40.35721016 N	104.45099471 W	213.51@	159.06	17.85
6072.00	17.32	217.39	6057.78	31.00	-58.71	205.47 S	69.89 E	40.35719376 N	104.45101797 W	217.03@	161.22	18.10
6103.00	18.47	215.19	6087.28	31.00	-52.67	213.15 S	64.25 E	40.35717286 N	104.45103850 W	222.62@	163.22	4.30
6135.00	22.42	219.23	6117.26	32.00	-45.42	222.02 S	57.47 E	40.35714873 N	104.45106322 W	229.34@	165.49	13.10
6166.00	27.61	222.22	6145.34	31.00	-36.33	231.93 S	48.90 E	40.35712181 N	104.45109440 W	237.02@	168.09	17.23
6197.00	31.92	225.12	6172.25	31.00	-25.10	243.03 S	38.26 E	40.35709167 N	104.45113304 W	246.03@	171.05	14.65
6229.00	36.14	227.76	6198.76	32.00	-11.47	255.35 S	25.27 E	40.35705827 N	104.45118016 W	256.60@	174.35	13.97
6260.00	40.98	231.01	6223.00	31.00	3.86	267.90 S	10.59 E	40.35702431 N	104.45123336 W	268.11@	177.74	16.92
6292.00	43.53	237.16	6246.69	32.00	21.94	280.49 S	6.83 W	40.35699033 N	104.45129642 W	280.57@	181.40	15.18
6323.00	46.60	242.44	6268.59	31.00	41.47	291.49 S	25.80 W	40.35696073 N	104.45136493 W	292.63@	185.06	15.60
6355.00	50.30	247.27	6289.82	32.00	63.66	301.64 S	47.47 W	40.35693360 N	104.45144313 W	305.35@	188.94	16.16
6386.00	55.49	248.41	6308.52	31.00	87.02	310.95 S	70.36 W	40.35690877 N	104.45152566 W	318.81@	192.75	17.00
6417.00	60.94	249.29	6324.84	31.00	112.07	320.45 S	94.93 W	40.35688350 N	104.45161421 W	334.22@	196.50	17.74
6449.00	66.65	250.52	6338.97	32.00	139.51	330.30 S	121.89 W	40.35685733 N	104.45171134 W	352.07@	200.25	18.17
6481.00	72.19	252.54	6350.21	32.00	168.39	339.78 S	150.29 W	40.35683224 N	104.45181366 W	371.53@	203.86	18.29

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6512.00	77.03	254.65	6358.44	31.00	197.46	348.21 S	178.95 W	40.35681002 N	104.45191686 W	391.50@	207.20	16.93
6543.00	82.13	257.20	6364.04	31.00	227.38	355.62 S	208.52 W	40.35679065 N	104.45202325 W	412.24@	210.39	18.33
6575.00	87.93	258.35	6366.81	32.00	258.84	362.36 S	239.66 W	40.35677314 N	104.45213527 W	434.45@	213.48	18.47
6606.00	88.46	262.30	6367.79	31.00	289.62	367.57 S	270.20 W	40.35675984 N	104.45224506 W	456.20@	216.32	12.85
6618.00	88.72	263.18	6368.09	12.00	301.58	369.09 S	282.10 W	40.35675607 N	104.45228783 W	464.55@	217.39	7.65
6769.00	89.34	263.53	6370.64	151.00	452.27	386.56 S	432.06 W	40.35671298 N	104.45282663 W	579.74@	228.18	0.47
6863.00	90.75	264.50	6370.57	94.00	546.15	396.36 S	525.54 W	40.35668911 N	104.45316247 W	658.25@	232.98	1.82
6958.00	91.98	265.82	6368.30	95.00	641.07	404.37 S	620.18 W	40.35667018 N	104.45350234 W	740.36@	236.89	1.90
7054.00	91.54	266.87	6365.36	96.00	737.02	410.49 S	715.93 W	40.35665649 N	104.45384618 W	825.26@	240.17	1.19
7150.00	91.63	268.80	6362.70	96.00	832.97	414.11 S	811.82 W	40.35664964 N	104.45419038 W	911.34@	242.97	2.01
7246.00	90.66	270.56	6360.78	96.00	928.83	414.65 S	907.80 W	40.35665128 N	104.45453476 W	998.01@	245.45	2.09
7341.00	89.52	271.79	6360.63	95.00	1023.56	412.70 S	1002.77 W	40.35665970 N	104.45487545 W	1084.38@	247.63	1.77
7437.00	90.48	273.37	6360.63	96.00	1119.09	408.38 S	1098.67 W	40.35667466 N	104.45521935 W	1172.12@	249.61	1.93
7532.00	87.58	272.14	6362.24	95.00	1213.57	403.81 S	1193.54 W	40.35669026 N	104.45555953 W	1260.00@	251.31	3.32
7628.00	88.55	273.99	6365.48	96.00	1308.96	398.68 S	1289.34 W	40.35670744 N	104.45590306 W	1349.57@	252.82	2.17
7723.00	89.43	274.96	6367.16	95.00	1403.11	391.27 S	1384.03 W	40.35673084 N	104.45624250 W	1438.28@	254.21	1.38
7819.00	89.78	276.45	6367.82	96.00	1497.98	381.73 S	1479.55 W	40.35676012 N	104.45658482 W	1528.00@	255.53	1.59
7914.00	89.52	279.26	6368.40	95.00	1591.24	368.75 S	1573.65 W	40.35679879 N	104.45692190 W	1616.28@	256.81	2.97
8010.00	89.96	280.05	6368.83	96.00	1684.87	352.65 S	1668.29 W	40.35684604 N	104.45726078 W	1705.15@	258.06	0.94
8105.00	89.78	279.61	6369.05	95.00	1777.47	336.43 S	1761.89 W	40.35689358 N	104.45759595 W	1793.73@	259.19	0.50
8201.00	89.69	278.38	6369.49	96.00	1871.34	321.42 S	1856.71 W	40.35693784 N	104.45793552 W	1884.33@	260.18	1.29
8296.00	89.08	275.66	6370.51	95.00	1964.85	309.81 S	1950.98 W	40.35697274 N	104.45827328 W	1975.43@	260.98	2.93
8392.00	89.43	274.78	6371.76	96.00	2059.83	301.08 S	2046.58 W	40.35699979 N	104.45861590 W	2068.60@	261.63	0.99
8488.00	88.55	272.58	6373.46	96.00	2155.14	294.92 S	2142.36 W	40.35701979 N	104.45895930 W	2162.56@	262.16	2.47
8583.00	88.99	271.27	6375.49	95.00	2249.75	291.73 S	2237.28 W	40.35703161 N	104.45929975 W	2256.22@	262.57	1.45
8680.00	89.34	271.09	6376.91	97.00	2346.47	289.73 S	2334.25 W	40.35704021 N	104.45964759 W	2352.16@	262.92	0.41
8775.00	90.04	271.00	6377.42	95.00	2441.22	288.00 S	2429.23 W	40.35704803 N	104.45998831 W	2446.24@	263.24	0.74
8870.00	90.40	270.74	6377.06	95.00	2535.99	286.55 S	2524.22 W	40.35705504 N	104.46032907 W	2540.43@	263.52	0.47
8966.00	91.54	269.42	6375.43	96.00	2631.83	286.42 S	2620.20 W	40.35705850 N	104.46067345 W	2635.81@	263.76	1.82

PathFinder Energy Services, Inc.

Survey Report

BILL BARRETT CORPORATION
 SIEBRING 5-63-32-32H
 WELD COUNTY, CO
 RIG:H & P 278

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
9061.00	90.92	269.77	6373.39	95.00	2726.70	287.09 S	2715.18 W	40.35705971 N	104.46101425 W	2730.31@	263.96	0.75
9155.00	88.37	269.86	6373.98	94.00	2820.57	287.40 S	2809.17 W	40.35706190 N	104.46135150 W	2823.83@	264.16	2.71
9251.00	86.88	271.44	6377.95	96.00	2916.28	286.31 S	2905.07 W	40.35706797 N	104.46169557 W	2919.15@	264.37	2.26
9348.00	86.44	272.06	6383.61	97.00	3012.77	283.35 S	3001.86 W	40.35707920 N	104.46204272 W	3015.20@	264.61	0.78
9443.00	89.16	273.81	6387.25	95.00	3107.16	278.49 S	3096.65 W	40.35709559 N	104.46238264 W	3109.15@	264.86	3.40
9539.00	91.71	275.40	6386.52	96.00	3202.28	270.78 S	3192.33 W	40.35711981 N	104.46272560 W	3203.79@	265.15	3.13
9635.00	92.07	274.78	6383.36	96.00	3297.26	262.27 S	3287.90 W	40.35714624 N	104.46306815 W	3298.34@	265.44	0.75
9731.00	92.33	274.25	6379.67	96.00	3392.34	254.72 S	3383.53 W	40.35717004 N	104.46341096 W	3393.10@	265.69	0.61
9826.00	89.34	272.14	6378.29	95.00	3486.74	249.43 S	3478.36 W	40.35718761 N	104.46375097 W	3487.29@	265.90	3.85
9922.00	89.78	271.97	6379.02	96.00	3582.35	245.98 S	3574.29 W	40.35720014 N	104.46409504 W	3582.74@	266.06	0.49
10017.00	89.52	269.86	6379.60	95.00	3677.11	244.47 S	3669.27 W	40.35720735 N	104.46443577 W	3677.41@	266.19	2.24
10113.00	89.52	271.88	6380.41	96.00	3772.88	243.01 S	3765.25 W	40.35721442 N	104.46478009 W	3773.09@	266.31	2.10
10207.00	90.48	270.39	6380.41	94.00	3866.62	241.15 S	3859.23 W	40.35722254 N	104.46511721 W	3866.76@	266.42	1.89
10303.00	90.40	269.16	6379.67	96.00	3962.49	241.53 S	3955.22 W	40.35722458 N	104.46546166 W	3962.59@	266.51	1.28
10398.00	89.34	267.75	6379.89	95.00	4057.45	244.09 S	4050.19 W	40.35722059 N	104.46580249 W	4057.53@	266.55	1.86
10493.00	88.72	266.08	6381.50	95.00	4152.44	249.20 S	4145.03 W	40.35720960 N	104.46614301 W	4152.51@	266.56	1.88
10588.00	87.85	266.43	6384.34	95.00	4247.39	255.40 S	4239.78 W	40.35719561 N	104.46648325 W	4247.47@	266.55	0.99
10683.00	88.37	267.66	6387.47	95.00	4342.33	260.29 S	4334.60 W	40.35718521 N	104.46682367 W	4342.41@	266.56	1.41
10737.00	88.55	267.31	6388.92	54.00	4396.31	262.66 S	4388.53 W	40.35718043 N	104.46701726 W	4396.39@	266.57	0.73
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 10809'MD												
10809.00	88.55	267.31	6390.75	72.00	4468.29	266.04 S	4460.43 W	40.35717346 N	104.46727537 W	4468.36@	266.59	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.