

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34841		² Pool Code 71599 / 72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 7412		⁵ Property Name RANDLEMAN			⁶ Well Number 1M
⁷ OGRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 5785

¹⁰ SURFACE LOCATION

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	31-N	11-W		1720	NORTH	1165	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	13	31-N	11-W		2132	SOUTH	787	WEST	SAN JUAN

¹² Dedicated Acres 320.00 (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN
CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	¹⁶ BLM 1953 N 89°20'44" W 2651.8' (M) 2655.2' (R)	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Crystal Tafuya</i> 9/25/09 Signature Crystal Tafuya Printed Name Regulatory Technician Title and E-mail Address September 25th, 2009 Date
	WELL FLAG NAD 83 LAT: 36.901039° N LONG: 107.947095° W NAD 27 LAT: 36°54.062199° N LONG: 107°56.788371° W	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey: 8/6/08 Signature and Seal of Professional Surveyor: Certificate Number: NM 11393
	W/2 DEDICATED ACREAGE FEE SECTION 13, T-31-N, R-11-W	
	BOTTOM HOLE	

B 10/1

COP Deviation Report

RANDLEMAN #1M

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName RANDLEMAN #1M	API / UWI 3004534841	County SAN JUAN	State/Province NEW MEXICO
Surface Legal Location 013-031N-011W-E	N/S Dist (ft) 1,720.00	N/S Ref FNL	E/W Dist (ft) 1,165.00	E/W Ref FWL

Survey Data					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
4/12/2009	293.00	4.22	MWD	Pathfinder	
4/12/2009	323.00	4.57	MWD	Pathfinder	
4/12/2009	353.00	5.01	MWD	Pathfinder	
4/12/2009	383.00	5.63	MWD	Pathfinder	
4/12/2009	413.00	6.42	MWD	Pathfinder	
4/12/2009	444.00	6.95	MWD	Pathfinder	
4/12/2009	475.00	7.21	MWD	Pathfinder	
4/12/2009	506.00	7.47	MWD	Pathfinder	
4/12/2009	536.00	8.35	MWD	Pathfinder	
4/12/2009	567.00	8.09	MWD	Pathfinder	
4/12/2009	597.00	8.53	MWD	Pathfinder	
4/12/2009	627.00	8.62	MWD	Pathfinder	
4/12/2009	658.00	8.88	MWD	Pathfinder	
4/12/2009	689.00	9.23	MWD	Pathfinder	
4/12/2009	720.00	9.50	MWD	Pathfinder	
4/12/2009	751.00	9.67	MWD	Pathfinder	
4/12/2009	782.00	10.11	MWD	Pathfinder	
4/12/2009	813.00	10.20	MWD	Pathfinder	
4/12/2009	843.00	10.55	MWD	Pathfinder	
4/12/2009	874.00	10.64	MWD	Pathfinder	
4/12/2009	923.00	11.08	MWD	Pathfinder	
4/12/2009	968.00	11.52	MWD	Pathfinder	
4/13/2009	1,013.00	12.40	MWD	Pathfinder	
4/13/2009	1,058.00	13.10	MWD	Pathfinder	
4/13/2009	1,103.00	13.10	MWD	Pathfinder	
4/13/2009	1,148.00	14.51	MWD	Pathfinder	
4/13/2009	1,193.00	15.21	MWD	Pathfinder	
4/13/2009	1,238.00	16.09	MWD	Pathfinder	
4/13/2009	1,285.00	16.80	MWD	Pathfinder	
4/13/2009	1,328.00	17.67	MWD	Pathfinder	
4/13/2009	1,373.00	18.38	MWD	Pathfinder	
4/13/2009	1,418.00	19.43	MWD	Pathfinder	
4/13/2009	1,463.00	20.40	MWD	Pathfinder	
4/13/2009	1,508.00	21.10	MWD	Pathfinder	
4/13/2009	1,553.00	22.16	MWD	Pathfinder	

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report; and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	MD (ftKB)	Incl. (°)	Method	Survey Company
4/13/2009	1,598.00	23.13	MWD	Pathfinder
4/13/2009	1,643.00	24.01	MWD	Pathfinder
4/13/2009	1,688.00	25.06	MWD	Pathfinder
4/13/2009	1,733.00	26.12	MWD	Pathfinder
4/13/2009	1,778.00	26.03	MWD	Pathfinder
4/13/2009	1,823.00	26.02	MWD	Pathfinder
4/13/2009	1,868.00	26.20	MWD	Pathfinder
4/14/2009	1,913.00	26.38	MWD	Pathfinder
4/14/2009	1,958.00	26.38	MWD	Pathfinder
4/14/2009	2,003.00	26.03	MWD	Pathfinder
4/14/2009	2,048.00	26.03	MWD	Pathfinder
4/14/2009	2,093.00	25.94	MWD	Pathfinder
4/14/2009	2,138.00	26.03	MWD	Pathfinder
4/14/2009	2,184.00	26.03	MWD	Pathfinder
4/14/2009	2,229.00	25.94	MWD	Pathfinder
4/14/2009	2,274.00	26.00	MWD	Pathfinder
4/14/2009	2,319.00	25.94	MWD	Pathfinder
4/14/2009	2,364.00	26.03	MWD	Pathfinder
4/14/2009	2,409.00	25.94	MWD	Pathfinder
4/14/2009	2,454.00	25.76	MWD	Pathfinder
4/14/2009	2,499.00	25.68	MWD	Pathfinder
4/14/2009	2,544.00	25.68	MWD	Pathfinder
4/14/2009	2,589.00	26.12	MWD	Pathfinder
4/14/2009	2,634.00	26.20	MWD	Pathfinder
4/14/2009	2,679.00	26.12	MWD	Pathfinder
4/14/2009	2,724.00	25.68	MWD	Pathfinder
4/14/2009	2,769.00	25.50	MWD	Pathfinder
4/14/2009	2,814.00	24.71	MWD	Pathfinder
4/14/2009	2,859.00	24.27	MWD	Pathfinder
4/14/2009	2,904.00	23.83	MWD	Pathfinder
4/14/2009	2,949.00	24.01	MWD	Pathfinder
4/14/2009	2,994.00	24.53	MWD	Pathfinder
4/15/2009	3,039.00	23.92	MWD	Pathfinder
4/15/2009	3,084.00	23.30	MWD	Pathfinder
4/15/2009	3,129.00	24.18	MWD	Pathfinder
4/15/2009	3,174.00	23.83	MWD	Pathfinder
4/15/2009	3,219.00	24.18	MWD	Pathfinder
4/15/2009	3,265.00	23.83	MWD	Pathfinder
4/15/2009	3,309.00	24.27	MWD	Pathfinder

I, the undersigned, certify that I acting in my capacity as _____ for ConocoPhillips Company, am authorized by said Company to make this report, and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Subscribed and sworn to me this _____

Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data

Date	PMD (HKB)	Incl (°)	Method	Survey Company
4/15/2009	3,354.00	23.48	MWD	Pathfinder
4/15/2009	3,399.00	24.09	MWD	Pathfinder
4/15/2009	3,445.00	23.92	MWD	Pathfinder
4/15/2009	3,490.00	23.92	MWD	Pathfinder
4/15/2009	3,535.00	24.09	MWD	Pathfinder
4/15/2009	3,580.00	24.09	MWD	Pathfinder
4/15/2009	3,625.00	24.62	MWD	Pathfinder
4/15/2009	3,670.00	25.41	MWD	Pathfinder
4/15/2009	3,715.00	25.32	MWD	Pathfinder
4/15/2009	3,760.00	25.06	MWD	Pathfinder
4/15/2009	3,805.00	25.50	MWD	Pathfinder
4/15/2009	3,850.00	24.53	MWD	Pathfinder
4/15/2009	3,895.00	24.89	MWD	Pathfinder
4/15/2009	3,940.00	25.50	MWD	Pathfinder
4/16/2009	3,985.00	24.80	MWD	Pathfinder
4/16/2009	4,030.00	23.30	MWD	Pathfinder
4/16/2009	4,075.00	21.19	MWD	Pathfinder
4/16/2009	4,120.00	19.43	MWD	Pathfinder
4/16/2009	4,165.00	18.03	MWD	Pathfinder
4/16/2009	4,210.00	16.44	MWD	Pathfinder
4/17/2009	4,255.00	16.18	MWD	Pathfinder
4/17/2009	4,300.00	15.83	MWD	Pathfinder
4/17/2009	4,345.00	14.95	MWD	Pathfinder
4/19/2009	4,402.00	14.42	MWD	Pathfinder
4/19/2009	4,447.00	13.63	MWD	Pathfinder
4/19/2009	4,492.00	12.05	MWD	Pathfinder
4/19/2009	4,537.00	10.73	MWD	Pathfinder
4/20/2009	4,582.00	8.88	MWD	Pathfinder
4/20/2009	4,627.00	7.65	MWD	Pathfinder
4/20/2009	4,672.00	6.59	MWD	Pathfinder
5/1/2009	7,242.00	1.00	FINAL BHS	PHOENIX

RCVD SEP 29 '09

OIL CONS. DIV.

DIST. 3

I, the undersigned, certify that I acting in my capacity as D. H. S. Engineer for ConocoPhillips Company, am authorized by said Company to make this report, and that said report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

[Signature]

Subscribed and sworn to me this Sept 25, 2009

[Signature]

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

AL

PREPARED BY: Tom Schmidt

BURLINGTON RESOURCES OIL & GAS.
RANDLEMAN #1M
AP# # 30.04S.34841
SAN JUAN COUNTY, NM

DIRECTIONAL SURVEY REPORT

DIST. 3

OIL CONS. DIV.

RCVD SEP 29 '09

5/1/2009

BURLINGTON RESOURCES OIL & GAS COMPANY LP.
Geneva Blackwater
3401 E 30th Street, Farmington 87402

RE: BURLINGTON RESOURCES OIL & GAS COMPANY LP.
RANDLEMAN #1M
SAN JUAN COUNTY, NM
RIG: H&P 282
API NO: 30-045-34841
PES FILE NO.: 601001640-NM-NM

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.

DIRECTIONAL SURVEY DATA

3 – Directional Survey Report Copies

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 (505) 324-0357

Sincerely,



Tom Schmidt
M/LWD Service Coordinator
PathFinder Energy Services

State of New Mexico
County of San Juan
Sidney Borunda
5/16/09



OFFICIAL SEAL
SIDNEY BORUNDA
NOTARY PUBLIC
STATE OF NEW MEXICO

My Commission Expires: Jan 9, 2013

AG

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) Thomas Billings
B) Jeremy Bobo
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 4/12/2009 TO 4/20/2009
5. STATE IN WHICH SURVEY WAS PERFORMED: NM
6. LOCATION OF WELL: SAN JUAN COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

RANDLEMAN #1M
SAN JUAN COUNTY, NM
RIG: H&P 282
API NO: 30-045-34841
9. SURVEY CERTIFIED FROM: 293 TO 4672 MEASURED DEPTH

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1470.16 FEET, ON A BEARING OF 194.90 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 4715FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


Tom Schmidt
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 04/12/2009
Date Completed: 04/20/2009

BURLINGTON RESOURCES OIL & GAS LP
RANDLEMAN #1M
SAN JUAN COUNTY, NM
Rig:H&P 282
PathFinder Office Supervisor: TOM SCHMIDT
PathFinder Field Engineers: THOMAS BILLINGS
JEREMY BOBO

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:36.54.3.7400 N LON:107.56.49.5400 W
GRID Reference:NAD83 new mexico west Transverse Mercator
Ref GRID Coor: X: 2689829.4907 Y: 2147324.3451
North Aligned To:TRUE NORTH
Total Magnetic Correction:10.24° EAST TO TRUE
Vertical Section Plane: 194.59
Survey Vert. Reference: 16.00' Rotary Table To Ground
Altitude:5785.00' Ground To MSL

Measured Depth	4715.00	(feet)
Inclination	6.59	(deg)
Azimuth	185.91	(deg)
True Vertical Depth	4426.16	(feet)
Vertical Section	1470.16	(feet)
Survey X cord	2689451.48	(feet)
Survey Y cord	2145903.60	(feet)
Survey Lat	36.89713516 N	(deg)
Survey Lon	107.94838143 W	(deg)
Rectangular Corr. N/S	1420.75 S	(feet)
Rectangular Corr. E/W	378.01 W	(feet)
Closure Distance	1470.18	(feet)
Direction of Closure	194.90	(deg)
Dogleg Severity	0.00	(deg/100ft)

AL

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS LP
RANDLEMAN #1M
SAN JUAN COUNTY, NM
Rig:H&P 282
PathFinder Office Supervisor: TOM SCHMIDT
PathFinder Field Engineers: THOMAS BILLINGS
JEREMY BOBO

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:36.54.3.7400 N LON:107.56.49.5400 W
Reference:NAD83 new mexico west Transverse Mercator
Ref GRID Coord: X: 2689829.4907 Y: 2147324.3451
North Aligned To:TRUE NORTH
Total Magnetic Correction:10.24° EAST TO TRUE
Vertical Section Plane: 194.59
Survey Vert. Reference: 16.00' Rotary Table To Ground
Altitude:5785.00' Ground To MSL

Survey Calculations by RX5 V6.01 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
ORIGIN OF WELL AT SURFACE.										
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
293.00	4.22	130.15	292.74	293.00	4.65	6.95 S	8.24 E	10.79@	130.15	1.44
323.00	4.57	129.25	322.65	30.00	5.63	8.42 S	10.01 E	13.08@	130.07	1.19
353.00	5.01	134.32	352.54	30.00	6.78	10.09 S	11.88 E	15.59@	130.36	2.03
383.00	5.63	141.01	382.41	30.00	8.30	12.15 S	13.74 E	18.34@	131.49	2.92
413.00	6.42	147.10	412.25	30.00	10.31	14.70 S	15.58 E	21.42@	133.35	3.38
444.00	6.95	152.07	443.04	31.00	12.86	17.82 S	17.40 E	24.90@	135.69	2.53
475.00	7.21	154.69	473.80	31.00	15.74	21.23 S	19.11 E	28.56@	138.02	1.34
506.00	7.47	157.43	504.55	31.00	18.83	24.85 S	20.71 E	32.35@	140.19	1.41
536.00	8.35	157.15	534.26	30.00	22.12	28.66 S	22.31 E	36.32@	142.11	2.94
567.00	8.09	164.55	564.94	31.00	25.79	32.84 S	23.76 E	40.53@	144.11	3.51
597.00	8.53	167.87	594.63	30.00	29.61	37.05 S	24.79 E	44.58@	146.21	2.17
627.00	8.62	171.50	624.29	30.00	33.66	41.45 S	25.59 E	48.71@	148.31	1.83
658.00	8.88	174.52	654.93	31.00	38.05	46.13 S	26.16 E	53.03@	150.44	1.70
689.00	9.23	177.59	685.55	31.00	42.67	50.99 S	26.50 E	57.46@	152.54	1.92
720.00	9.50	180.96	716.13	31.00	47.54	56.03 S	26.56 E	62.01@	154.64	1.97
751.00	9.67	183.46	746.70	31.00	52.58	61.19 S	26.36 E	66.62@	156.70	1.45
782.00	10.11	185.54	777.24	31.00	57.82	66.50 S	25.94 E	71.38@	158.69	1.83
813.00	10.20	187.81	807.75	31.00	63.23	71.92 S	25.30 E	76.24@	160.62	1.32
843.00	10.55	190.00	837.26	30.00	68.61	77.26 S	24.46 E	81.04@	162.43	1.76
874.00	10.64	192.37	867.74	31.00	74.30	82.85 S	23.36 E	86.08@	164.26	1.44
923.00	11.08	195.40	915.86	49.00	83.52	91.81 S	21.14 E	94.21@	167.03	1.47
968.00	11.52	197.43	959.99	45.00	92.34	100.26 S	18.64 E	101.98@	169.47	1.32
1013.00	12.40	196.17	1004.01	45.00	101.65	109.19 S	15.95 E	110.35@	171.69	2.04
1058.00	13.10	195.70	1047.90	45.00	111.58	118.74 S	13.23 E	119.48@	173.64	1.57

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS LP
 RANDLEMAN #1M
 SAN JUAN COUNTY, NM
 RIG:H&P 282

Page 02/04

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
1103.00	13.10	200.30	1091.73	45.00	121.75	128.44 S	10.08 E	128.83@	175.51	2.32
1148.00	14.51	196.38	1135.43	45.00	132.46	138.63 S	6.72 E	138.79@	177.23	3.76
1193.00	15.21	196.96	1178.92	45.00	144.00	149.68 S	3.41 E	149.72@	178.70	1.59
1238.00	16.09	198.21	1222.26	45.00	156.12	161.25 S	0.26 W	161.25@	180.09	2.09
1285.00	16.80	198.25	1267.33	47.00	169.40	173.89 S	4.43 W	173.95@	181.46	1.51
1328.00	17.67	199.41	1308.40	43.00	182.10	185.95 S	8.54 W	186.14@	182.63	2.18
1373.00	18.38	199.97	1351.19	45.00	195.97	199.06 S	13.23 W	199.50@	183.80	1.62
1418.00	19.43	200.03	1393.76	45.00	210.49	212.76 S	18.22 W	213.54@	184.89	2.33
1463.00	20.40	200.38	1436.07	45.00	225.74	227.14 S	23.52 W	228.36@	185.91	2.17
1508.00	21.10	200.40	1478.15	45.00	241.60	242.09 S	29.07 W	243.82@	186.85	1.56
1553.00	22.16	199.71	1519.98	45.00	258.11	257.67 S	34.76 W	260.00@	187.68	2.42
1598.00	23.13	200.27	1561.52	45.00	275.36	273.95 S	40.68 W	276.95@	188.45	2.21
1643.00	24.01	200.57	1602.76	45.00	293.26	290.81 S	46.96 W	294.58@	189.17	1.97
1688.00	25.06	200.31	1643.70	45.00	311.85	308.32 S	53.48 W	312.93@	189.84	2.35
1733.00	26.12	201.25	1684.28	45.00	331.17	326.49 S	60.38 W	332.03@	190.48	2.52
1778.00	26.03	201.40	1724.70	45.00	350.82	344.92 S	67.58 W	351.47@	191.08	0.25
1823.00	26.20	201.08	1765.11	45.00	370.49	363.38 S	74.75 W	370.99@	191.62	0.49
1868.00	26.20	200.19	1805.48	45.00	390.25	381.97 S	81.75 W	390.62@	192.08	0.87
1913.00	26.38	200.21	1845.83	45.00	410.08	400.68 S	88.64 W	410.36@	192.47	0.40
1958.00	26.38	200.26	1886.14	45.00	429.98	419.44 S	95.55 W	430.18@	192.83	0.05
2003.00	26.03	200.57	1926.52	45.00	449.75	438.06 S	102.48 W	449.89@	193.17	0.83
2048.00	26.03	200.10	1966.95	45.00	469.40	456.58 S	109.34 W	469.49@	193.47	0.46
2093.00	25.94	199.80	2007.41	45.00	489.03	475.11 S	116.07 W	489.08@	193.73	0.35
2138.00	26.03	198.76	2047.86	45.00	508.68	493.72 S	122.58 W	508.71@	193.94	1.03
2184.00	26.03	198.34	2089.19	46.00	528.82	512.86 S	129.00 W	528.83@	194.12	0.40
2229.00	25.94	198.36	2129.64	45.00	548.49	531.57 S	135.21 W	548.50@	194.27	0.20
2274.00	26.20	197.44	2170.06	45.00	568.23	550.39 S	141.29 W	568.24@	194.40	1.07
2319.00	25.94	197.04	2210.48	45.00	587.99	569.28 S	147.15 W	587.99@	194.49	0.70
2364.00	26.03	196.65	2250.94	45.00	607.69	588.15 S	152.86 W	607.69@	194.57	0.43

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS LP
 RANDLEMAN #1M
 SAN JUAN COUNTY, NM
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2409.00	25.94	196.86	2291.39	45.00	627.39	607.03 S	158.55 W	627.39@	194.64	0.29
2454.00	25.76	196.34	2331.88	45.00	647.00	625.83 S	164.15 W	647.00@	194.70	0.64
2499.00	25.68	196.56	2372.43	45.00	666.52	644.56 S	169.68 W	666.52@	194.75	0.28
2544.00	25.68	197.00	2412.98	45.00	686.00	663.23 S	175.31 W	686.01@	194.81	0.42
2589.00	26.12	196.70	2453.46	45.00	705.64	682.04 S	181.01 W	705.65@	194.86	1.02
2634.00	26.20	195.97	2493.85	45.00	725.47	701.08 S	186.59 W	725.48@	194.90	0.74
2679.00	26.12	196.66	2534.24	45.00	745.30	720.12 S	192.16 W	745.32@	194.94	0.70
2724.00	25.68	197.33	2574.72	45.00	764.94	738.92 S	197.91 W	764.96@	194.99	1.17
2769.00	25.50	196.81	2615.31	45.00	784.36	757.50 S	203.61 W	784.39@	195.05	0.64
2814.00	24.71	195.97	2656.06	45.00	803.44	775.81 S	209.00 W	803.47@	195.08	1.93
2859.00	24.27	194.89	2697.01	45.00	822.09	793.79 S	213.96 W	822.13@	195.09	1.40
2904.00	23.83	194.04	2738.10	45.00	840.43	811.55 S	218.55 W	840.46@	195.07	1.25
2949.00	24.01	193.52	2779.24	45.00	858.68	829.27 S	222.89 W	858.70@	195.04	0.62
2994.00	24.53	192.68	2820.26	45.00	877.17	847.29 S	227.08 W	877.19@	195.00	1.39
3039.00	23.92	192.63	2861.30	45.00	895.62	865.30 S	231.13 W	895.64@	194.95	1.36
3084.00	23.30	193.84	2902.53	45.00	913.64	882.85 S	235.25 W	913.65@	194.92	1.75
3129.00	24.18	195.49	2943.72	45.00	931.75	900.37 S	239.84 W	931.77@	194.92	2.45
3174.00	23.83	194.36	2984.83	45.00	950.06	918.06 S	244.56 W	950.07@	194.92	1.28
3219.00	24.18	192.51	3025.94	45.00	968.36	935.86 S	248.81 W	968.37@	194.89	1.84
3265.00	23.83	190.13	3067.96	46.00	987.04	954.21 S	252.48 W	987.05@	194.82	2.24
3309.00	24.27	190.13	3108.14	44.00	1004.92	971.86 S	255.64 W	1004.92@	194.74	1.00
3354.00	23.48	191.38	3149.29	45.00	1023.09	989.75 S	259.03 W	1023.09@	194.67	2.09
3399.00	24.09	190.77	3190.47	45.00	1041.20	1007.56 S	262.52 W	1041.20@	194.60	1.46
3445.00	23.92	190.88	3232.49	46.00	1059.87	1025.94 S	266.03 W	1059.87@	194.54	0.38
3490.00	23.92	191.52	3273.63	45.00	1078.09	1043.84 S	269.58 W	1078.09@	194.48	0.58
3535.00	24.09	192.75	3314.73	45.00	1096.38	1061.74 S	273.43 W	1096.38@	194.44	1.17
3580.00	24.09	193.19	3355.81	45.00	1114.74	1079.64 S	277.55 W	1114.74@	194.42	0.40
3625.00	24.62	194.44	3396.81	45.00	1133.29	1097.66 S	281.98 W	1133.30@	194.41	1.64
3670.00	25.41	194.91	3437.59	45.00	1152.32	1116.06 S	286.80 W	1152.33@	194.41	1.81

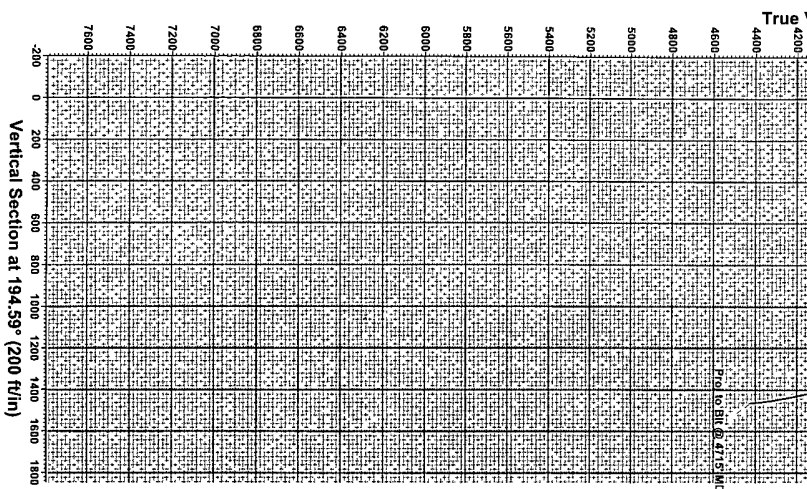
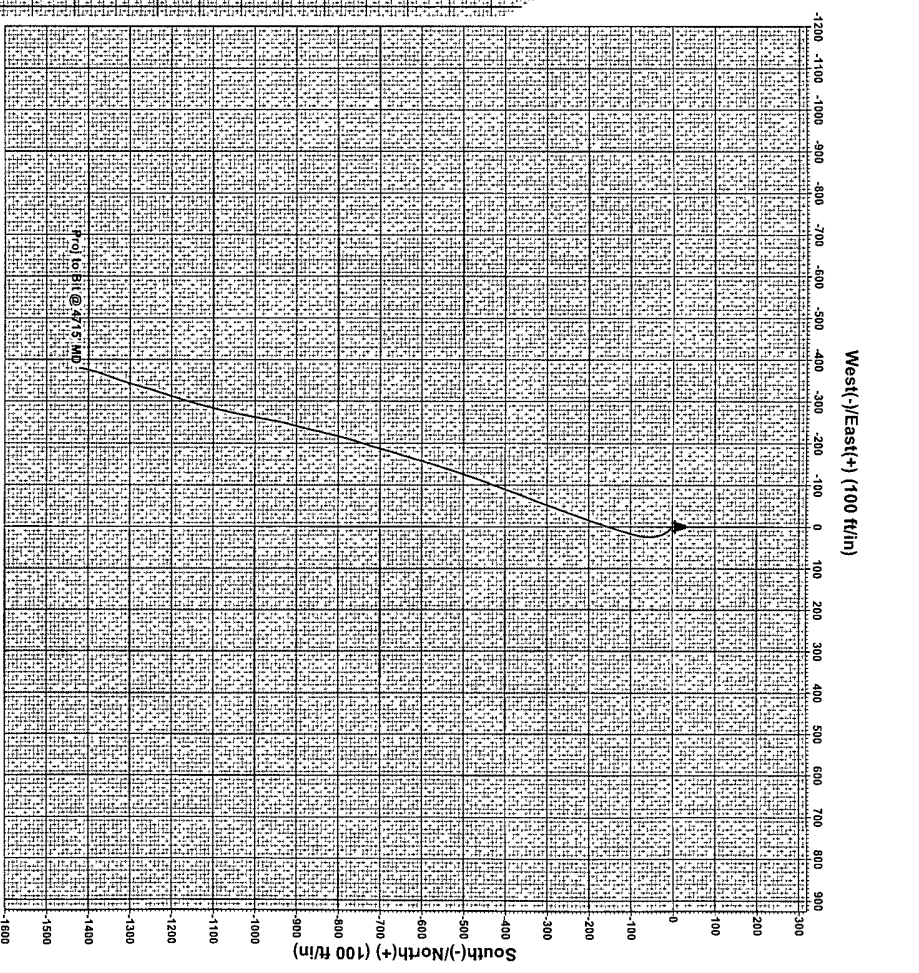
PathFinder Energy Services, Inc.

Survey Report

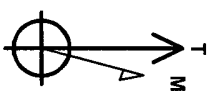
BURLINGTON RESOURCES OIL & GAS LP
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
3715.00	25.32	194.83	3478.25	45.00	1171.60	1134.69 S	291.75 W	1171.60@	194.42	0.21
3760.00	25.06	195.82	3518.97	45.00	1190.75	1153.17 S	296.81 W	1190.75@	194.43	1.10
3805.00	25.50	197.53	3559.66	45.00	1209.95	1171.57 S	302.33 W	1209.95@	194.47	1.89
3850.00	24.53	198.02	3600.44	45.00	1228.95	1189.69 S	308.14 W	1228.95@	194.52	2.20
3895.00	24.89	197.87	3641.32	45.00	1247.73	1207.59 S	313.93 W	1247.73@	194.57	0.81
3940.00	25.50	197.68	3682.04	45.00	1266.85	1225.83 S	319.78 W	1266.85@	194.62	1.37
3985.00	24.80	197.28	3722.77	45.00	1285.95	1244.07 S	325.52 W	1285.96@	194.66	1.60
4030.00	23.30	195.71	3763.87	45.00	1304.28	1261.65 S	330.74 W	1304.28@	194.69	3.62
4075.00	21.19	195.93	3805.51	45.00	1321.31	1278.04 S	335.38 W	1321.31@	194.70	4.69
4120.00	19.43	196.57	3847.71	45.00	1336.92	1293.04 S	339.75 W	1336.93@	194.72	3.94
4165.00	18.03	197.30	3890.33	45.00	1351.36	1306.86 S	343.95 W	1351.37@	194.75	3.15
4210.00	16.44	198.94	3933.31	45.00	1364.67	1319.53 S	348.09 W	1364.67@	194.78	3.69
4255.00	16.18	200.81	3976.50	45.00	1377.25	1331.42 S	352.38 W	1377.26@	194.82	1.30
4300.00	15.83	199.93	4019.75	45.00	1389.59	1343.05 S	356.70 W	1389.61@	194.87	0.95
4345.00	14.95	199.91	4063.14	45.00	1401.48	1354.28 S	360.77 W	1401.51@	194.92	1.96
4402.00	14.42	198.80	4118.28	57.00	1415.88	1367.91 S	365.56 W	1415.91@	194.96	1.05
4447.00	13.63	197.04	4161.94	45.00	1426.77	1378.28 S	368.92 W	1426.80@	194.99	1.99
4492.00	12.05	195.72	4205.81	45.00	1436.76	1387.87 S	371.75 W	1436.80@	195.00	3.57
4537.00	10.73	193.59	4249.92	45.00	1445.65	1396.47 S	374.01 W	1445.68@	194.99	3.08
4582.00	8.88	191.83	4294.26	45.00	1453.31	1403.94 S	375.70 W	1453.34@	194.98	4.16
4627.00	7.65	187.88	4338.80	45.00	1459.75	1410.31 S	376.83 W	1459.78@	194.96	3.01
4672.00	6.59	185.91	4383.45	45.00	1465.28	1415.84 S	377.50 W	1465.30@	194.93	2.42
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 4715'MD.										
4715.00	6.59	185.91	4426.16	43.00	1470.16	1420.75 S	378.01 W	1470.18@	194.90	0.00



WELL DETAILS- #1M					
Ground Elevation: 5785.00					
RKB Elevation: WELL @ 5801.00ft (16' KB Elevation (1&P2&2))					
Rig Name: 16' KB Elevation (1&P2&2)					
+N/S					
0.00	+E/W	0.00	North	East	16' KB Elevation (1&P2&2)
2147324.300					
2688928.300					
36° 54' 37.40 N					
107° 56' 40.542 W					
SLOT					



Azinuths to True North
Magnetic North: 10.21°
Magnetic Field
Strength: 51021.85T
Dip Angle: 63.62°
Date: 07/28/2009
Model: GPR200510

PROJECT DETAILS: San Juan County(NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: No north reference data is available

Survey MWD #1 (#1M/OH)
Created By: Nate Bingham Date: 8/28/2009
Checked: _____ Date: _____

RANDLEMAN #1M

Burlington Resources Oil & Gas Company, LP

Most Recent Job

Jobs	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
Job Category	INITIAL COMPLETION	INITIAL COMPLETION	5/4/2009	9/22/2009
COMPLETIONS				

Well Config: DEVIATED - Original Hole, 9/23/2009 12:58:49 PM

