



COP Deviation Report

SAN JUAN 30-6 UNIT #14M

Operator BURLINGTON RESOURCES OIL & GAS COMPANY LP	Legal WellName SAN JUAN 30-6 UNIT #14M	API / UWI 3003930832	County RIO ARRIBA	State/Province NEW MEXICO
Surface Legal Location 032-030N-006W-D	N/S Dist (ft) 908.00	N/S Ref FNL	E/W Dist (ft) 1,006.00	E/W Ref FWL

Survey Data

Date	MD (ftKB)	Incl (°)	Method	Survey Company
4/1/2010	130.00	0.75	Inc-WL	MOTE
4/1/2010	234.00	1.00	Inc-WL	MOTE
4/12/2010	261.00	0.53	IncAzi-MWD	Pathfinder
4/12/2010	292.00	0.88	IncAzi-MWD	Pathfinder
4/12/2010	323.00	1.41	IncAzi-MWD	Pathfinder
4/12/2010	385.00	3.17	IncAzi-MWD	Pathfinder
4/12/2010	416.00	3.96	IncAzi-MWD	Pathfinder
4/12/2010	447.00	4.57	IncAzi-MWD	Pathfinder
4/12/2010	478.00	5.72	IncAzi-MWD	Pathfinder
4/12/2010	509.00	6.86	IncAzi-MWD	Pathfinder
4/12/2010	540.00	7.47	IncAzi-MWD	Pathfinder
4/12/2010	571.00	8.09	IncAzi-MWD	Pathfinder
4/12/2010	602.00	8.44	IncAzi-MWD	Pathfinder
4/12/2010	632.00	9.23	IncAzi-MWD	Pathfinder
4/12/2010	663.00	10.82	IncAzi-MWD	Pathfinder
4/12/2010	694.00	11.96	IncAzi-MWD	Pathfinder
4/12/2010	725.00	12.49	IncAzi-MWD	Pathfinder
4/12/2010	756.00	12.66	IncAzi-MWD	Pathfinder
4/12/2010	787.00	13.45	IncAzi-MWD	Pathfinder
4/12/2010	816.00	14.25	IncAzi-MWD	Pathfinder
4/12/2010	847.00	14.77	IncAzi-MWD	Pathfinder
4/12/2010	878.00	15.12	IncAzi-MWD	Pathfinder
4/12/2010	909.00	15.56	IncAzi-MWD	Pathfinder
4/12/2010	940.00	16.44	IncAzi-MWD	Pathfinder
4/12/2010	970.00	16.88	IncAzi-MWD	Pathfinder
4/12/2010	1,001.00	17.24	IncAzi-MWD	Pathfinder
4/12/2010	1,032.00	18.03	IncAzi-MWD	Pathfinder
4/12/2010	1,062.00	18.82	IncAzi-MWD	Pathfinder
4/12/2010	1,093.00	19.79	IncAzi-MWD	Pathfinder
4/12/2010	1,124.00	20.40	IncAzi-MWD	Pathfinder
4/12/2010	1,155.00	21.46	IncAzi-MWD	Pathfinder
4/13/2010	1,217.00	22.51	IncAzi-MWD	Pathfinder
4/13/2010	1,310.00	23.92	IncAzi-MWD	Pathfinder
4/13/2010	1,408.00	24.53	IncAzi-MWD	Pathfinder
4/13/2010	1,502.00	25.50	IncAzi-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 _____

Surf 908/N 1006/W ✓
B/L 1449/N 1454/W ✓

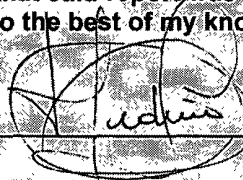
Notary Public in and for San Juan County, New Mexico

My Commission expires _____

Survey Data					
Date	MD (ftKB)	Incl (°)	Method	Survey Company	
4/13/2010	1,597.00	24.27	IncAzi-MWD	Pathfinder	
4/13/2010	1,692.00	23.83	IncAzi-MWD	Pathfinder	
4/13/2010	1,786.00	24.18	IncAzi-MWD	Pathfinder	
4/13/2010	1,880.00	24.53	IncAzi-MWD	Pathfinder	
4/13/2010	1,943.00	25.06	IncAzi-MWD	Pathfinder	
4/13/2010	2,038.00	25.24	IncAzi-MWD	Pathfinder	
4/13/2010	2,133.00	24.71	IncAzi-MWD	Pathfinder	
4/13/2010	2,227.00	24.09	IncAzi-MWD	Pathfinder	
4/13/2010	2,321.00	24.45	IncAzi-MWD	Pathfinder	
4/14/2010	2,416.00	24.01	IncAzi-MWD	Pathfinder	
4/14/2010	2,511.00	22.77	IncAzi-MWD	Pathfinder	
4/14/2010	2,606.00	22.95	IncAzi-MWD	Pathfinder	
4/14/2010	2,700.00	23.39	IncAzi-MWD	Pathfinder	
4/14/2010	2,764.00	22.51	IncAzi-MWD	Pathfinder	
4/14/2010	2,827.00	21.46	IncAzi-MWD	Pathfinder	
4/14/2010	2,891.00	20.31	IncAzi-MWD	Pathfinder	
4/14/2010	2,955.00	19.43	IncAzi-MWD	Pathfinder	
4/14/2010	3,018.00	18.38	IncAzi-MWD	Pathfinder	
4/14/2010	3,081.00	17.50	IncAzi-MWD	Pathfinder	
4/14/2010	3,145.00	15.83	IncAzi-MWD	Pathfinder	
4/14/2010	3,208.00	14.68	IncAzi-MWD	Pathfinder	
4/14/2010	3,271.00	13.63	IncAzi-MWD	Pathfinder	
4/14/2010	3,334.00	12.93	IncAzi-MWD	Pathfinder	
4/14/2010	3,397.00	11.52	IncAzi-MWD	Pathfinder	
4/14/2010	3,460.00	10.46	IncAzi-MWD	Pathfinder	
4/14/2010	3,523.00	9.41	IncAzi-MWD	Pathfinder	
4/14/2010	3,586.00	8.18	IncAzi-MWD	Pathfinder	
4/14/2010	3,649.00	6.86	IncAzi-MWD	Pathfinder	
4/15/2010	3,712.00	5.63	IncAzi-MWD	Pathfinder	
4/15/2010	3,775.00	4.40	IncAzi-MWD	Pathfinder	
4/16/2010	3,837.00	4.22	IncAzi-MWD	Pathfinder	
4/16/2010	3,900.00	3.69	IncAzi-MWD	Pathfinder	
4/16/2010	3,995.00	3.25	IncAzi-MWD	Pathfinder	
4/16/2010	4,089.00	3.17	IncAzi-MWD	Pathfinder	
4/16/2010	4,183.00	2.55	IncAzi-MWD	Pathfinder	
4/27/2010	8,426.00	1.00	Inc-WL	PHOENIX	

RCVD JUN 16 '10
OIL CONS. DIV.
DIST. 3

I, the undersigned, certify that I acting in my capacity as Drilling 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.



Subscribed and sworn to me this

6/3/10

Tamara D. Sessions

Notary Public in and for San Juan County, New Mexico

My Commission expires

2/8/12

RCVD JUN 16 '10

OIL CONS. DIV.

DIST. 3

DIRECTIONAL SURVEY REPORT

**BURLINGTON RESOURCES OIL & GAS
COMPANY LP.**

SAN JUAN 30-6 #14M

RIO ARRIBA COUNTY, NM

PREPARED BY: Tom Schmidt

4/19/2010

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

RE: BURLINGTON RESOURCES OIL & GAS COMPANY LP.
SAN JUAN 30-6 Unit #14M
RIO ARRIBA COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30832
PES FILE NO.: 601001867-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

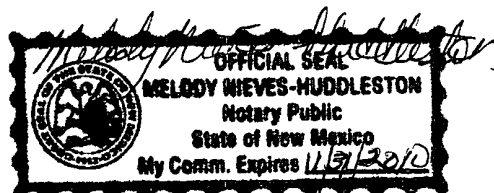
3 – Directional Survey Report Copies

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



DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) Justin Hawkins
B) Dustin Easley
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 4/14/2010 TO 4/16/2010
5. STATE IN WHICH SURVEY WAS PERFORMED: NM
6. LOCATION OF WELL: RIO ARRIBA COUNTY, NM
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

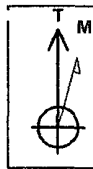
SAN JUAN 30-6 Unit #14M
RIO ARRIBA COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30832
PES FILE NO.: 601001867-NM-NM

9. SURVEY CERTIFIED FROM: 261 TO 4183 MEASURED DEPTH

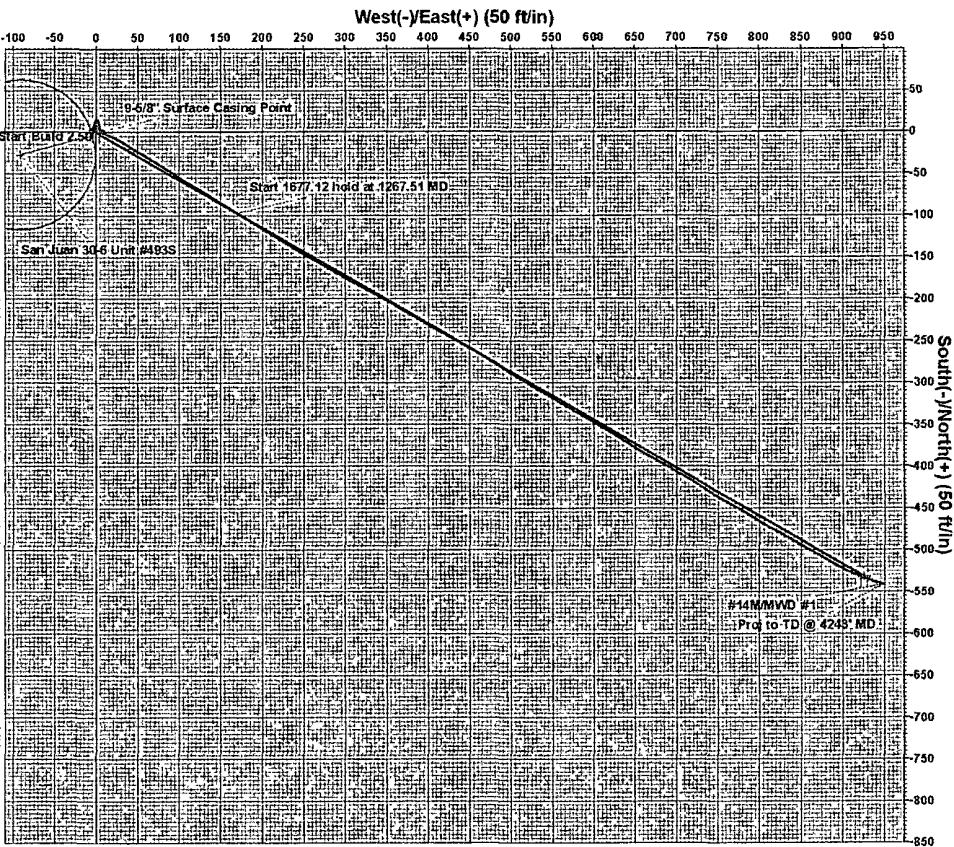
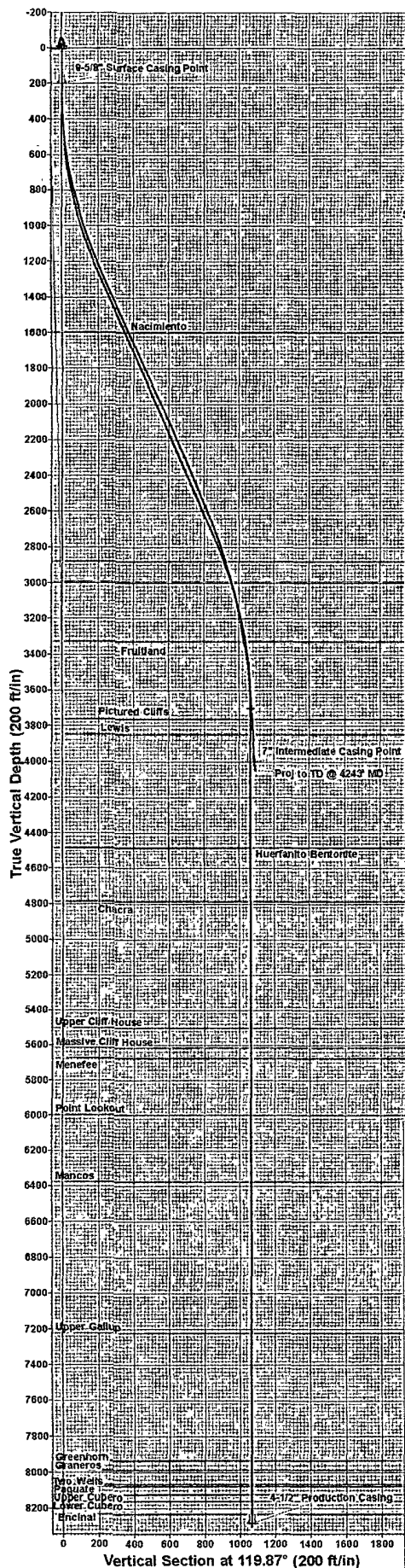
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1091.41 FEET, ON A BEARING OF 119.71 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 4243 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Tom Schmidt
M/LWD SERVICE COORDINATOR

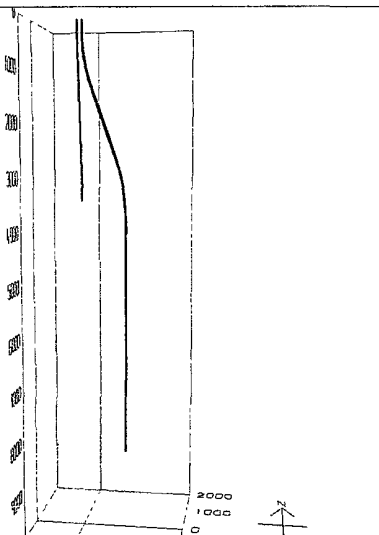


Azimuths to True North
Magnetic North: 9.94°
Magnetic Field
Strength: 51051.0nT
Dip Angle: 63.61°
Date: 03/03/2010
Model: BGGM 2009



WELL DETAILS: #14M						
Ground Elevation: 6852.00						
RKB Elevation: WELL @ 6867.00ft (AWS KB 15' Correction)						
Rig Name: AWS KB 15' Correction						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	2103270.419	136459.066	36° 46' 25.946 N	107° 29' 28.555 W	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	315.00	0.00	0.00	315.00	0.00	0.00	0.00	0.00	0.00	
3	1267.51	23.81	119.87	1240.33	-87.15	169.19	2.50	119.87	195.10	
4	2944.63	23.81	119.87	2774.67	-434.35	756.41	0.00	0.00	872.24	
5	3897.15	0.00	0.00	3700.00	-531.50	925.80	2.50	180.00	1067.35	Vert Pt(Top of FC) 3700TVD
6	9482.15	0.00	0.00	8285.00	-531.50	925.80	0.00	0.00	1067.35	PBHL(#14M)



PROJECT DETAILS: Rio Arriba County(NAD27)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico Central 3002
System Datum: Mean Sea Level
Local North: True



Conoco Phillips
Rio Arriba County(NAD27)
San Juan 30-6
#14M
S-Well

Survey: MWD #1

Pathfinder X & Y Survey Report

19 April, 2010

PATHFINDER

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #14M
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Site:	San Juan 30-6	MD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Well:	#14M	North Reference:	True
Wellbore:	S-Well	Survey Calculation Method:	Minimum Curvature
Design:	S-Well	Database:	Midland Database

Project	Rio Arriba County(NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site	San Juan 30-6		
Site Position:		Northing:	2,102,035.511 ft
From:	Lat/Long	Easting:	108,396.412 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	36° 46' 10.000 N
		Longitude:	107° 35' 13.200 W
		Grid Convergence:	-0.80 °

Well	#14M		
Well Position	+N/-S	0.00 ft	Northing: 2,103,270.419 ft
	+E/-W	0.00 ft	Easting: 136,459.066 ft
Position Uncertainty	0.00 ft		Wellhead Elevation: ft
			Latitude: 36° 46' 25.946 N
			Longitude: 107° 29' 28.555 W
			Ground Level: 6,852.00 ft

Wellbore	S-Well		
Magnetics	Model Name	Sample Date	Declination
	BGGM 2009		(°)
			9.94
			Dip Angle (°)
			63.6
			Field Strength (nT)
			51,051

Design	S-Well		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			119.71

Survey Program	Date 04/19/2010		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
261.00	4,243.00	MWD #1 (S-Well)	MWD
			Description
			MWD - Standard



Pathfinder
Pathfinder X & Y Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #14M
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Site:	San Juan 30-6	MD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Well:	#14M	North Reference:	True
Wellbore:	S-Well	Survey Calculation Method:	Minimum Curvature
Design:	S-Well	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V: Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	0.00	0.00	0.00	0.00	-6,867.00	0.00	0.00	0.00	0.00	2,103,270.42	136,459.07
	261.00	0.53	28.43	261.00	-6,606.00	1.06	0.57	-0.03	0.20	2,103,271.47	136,459.65
	292.00	0.88	70.31	291.99	-6,575.01	1.27	0.87	0.12	1.94	2,103,271.68	136,459.95
	323.00	1.41	95.17	322.99	-6,544.01	1.31	1.47	0.63	2.31	2,103,271.71	136,460.55
	385.00	3.17	107.50	384.94	-6,482.06	0.73	3.87	3.00	2.93	2,103,271.10	136,462.94
	416.00	3.96	107.99	415.88	-6,451.12	0.14	5.70	4.88	2.55	2,103,270.49	136,464.77
	447.00	4.57	111.58	446.79	-6,420.21	-0.64	7.87	7.15	2.15	2,103,269.67	136,466.93
	478.00	5.72	112.31	477.66	-6,389.34	-1.68	10.45	9.91	3.72	2,103,268.60	136,469.49
	509.00	6.86	114.21	508.48	-6,358.52	-3.03	13.56	13.28	3.74	2,103,267.21	136,472.59
	540.00	7.47	116.31	539.24	-6,327.76	-4.68	17.06	17.14	2.14	2,103,265.52	136,476.06
	571.00	8.09	116.09	569.95	-6,297.05	-6.54	20.82	21.33	2.00	2,103,263.61	136,479.80
	602.00	8.44	114.99	600.63	-6,266.37	-8.46	24.85	25.77	1.24	2,103,261.64	136,483.80
	632.00	9.23	116.62	630.27	-6,236.73	-10.46	28.99	30.37	2.76	2,103,259.58	136,487.92
	663.00	10.82	119.96	660.80	-6,206.20	-13.03	33.74	35.76	5.46	2,103,256.95	136,492.63
	694.00	11.96	121.76	691.19	-6,175.81	-16.17	38.99	41.88	3.85	2,103,253.74	136,497.84
	725.00	12.49	123.18	721.48	-6,145.52	-19.70	44.52	48.44	1.97	2,103,250.14	136,503.33
	756.00	12.66	121.77	751.74	-6,115.26	-23.32	50.22	55.18	1.13	2,103,246.45	136,508.98
	787.00	13.45	121.21	781.94	-6,085.06	-26.98	56.19	62.17	2.58	2,103,242.71	136,514.90
	816.00	14.25	121.37	810.10	-6,056.90	-30.59	62.12	69.11	2.76	2,103,239.03	136,520.79
	847.00	14.77	121.23	840.11	-6,026.89	-34.62	68.76	76.88	1.68	2,103,234.91	136,527.37
	878.00	15.12	122.34	870.06	-5,996.94	-38.83	75.55	84.87	1.46	2,103,230.61	136,534.11
	909.00	15.56	122.11	899.95	-5,967.05	-43.21	82.49	93.06	1.43	2,103,226.15	136,540.99
	940.00	16.44	121.22	929.75	-5,937.25	-47.69	89.76	101.60	2.95	2,103,221.57	136,548.20
	970.00	16.88	121.75	958.49	-5,908.51	-52.18	97.10	110.20	1.55	2,103,216.98	136,555.48
	1,001.00	17.24	122.12	988.13	-5,878.87	-56.99	104.82	119.28	1.21	2,103,212.07	136,563.13
	1,032.00	18.03	121.53	1,017.67	-5,849.33	-61.94	112.80	128.67	2.61	2,103,207.02	136,571.05
	1,062.00	18.82	121.06	1,046.13	-5,820.87	-66.87	120.90	138.15	2.68	2,103,201.99	136,579.09

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #14M
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Site:	San Juan 30-6	MD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Well:	#14M	North Reference:	True
Wellbore:	S-Well	Survey Calculation Method:	Minimum Curvature
Design:	S-Well	Database:	Midland Database

Survey:											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
1,093.00	19.79	121.50	1,075.39	-5,791.61	-72.19	129.66	148.39	3.16	2,103,196.55	136,587.78	
1,124.00	20.40	121.87	1,104.50	-5,762.50	-77.78	138.72	159.04	2.01	2,103,190.84	136,596.77	
1,155.00	21.46	121.11	1,133.46	-5,733.54	-83.57	148.16	170.10	3.53	2,103,184.94	136,606.13	
1,217.00	22.51	122.46	1,190.95	-5,676.05	-95.80	167.89	193.30	1.88	2,103,172.45	136,625.70	
1,310.00	23.92	120.94	1,276.42	-5,590.58	-115.05	199.08	229.93	1.65	2,103,152.80	136,656.64	
1,408.00	24.53	121.51	1,365.79	-5,501.21	-135.89	233.47	270.13	0.67	2,103,131.51	136,690.75	
1,502.00	25.50	120.05	1,450.97	-5,416.03	-156.23	267.62	309.87	1.22	2,103,110.73	136,724.64	
1,597.00	24.27	119.07	1,537.15	-5,329.85	-175.95	302.39	349.84	1.37	2,103,090.56	136,759.14	
1,692.00	23.83	117.52	1,623.90	-5,243.10	-194.31	336.47	388.54	0.81	2,103,071.76	136,792.99	
1,786.00	24.18	120.51	1,709.77	-5,157.23	-212.86	369.90	426.77	1.35	2,103,052.78	136,826.17	
1,880.00	24.53	120.01	1,795.41	-5,071.59	-232.39	403.38	465.53	0.43	2,103,032.82	136,859.40	
1,943.00	25.06	118.96	1,852.60	-5,014.40	-245.39	426.38	491.95	1.09	2,103,019.52	136,882.23	
2,038.00	25.24	120.64	1,938.60	-4,928.40	-265.46	461.41	532.32	0.78	2,102,999.00	136,917.00	
2,133.00	24.71	120.80	2,024.71	-4,842.29	-285.95	495.89	572.42	0.56	2,102,978.07	136,951.21	
2,227.00	24.09	120.57	2,110.32	-4,756.68	-305.76	529.29	611.25	0.67	2,102,957.82	136,984.34	
2,321.00	24.45	120.03	2,196.01	-4,670.99	-325.25	562.65	649.88	0.45	2,102,937.89	137,017.45	
2,416.00	24.01	120.29	2,282.64	-4,584.36	-344.84	596.36	688.87	0.48	2,102,917.87	137,050.90	
2,511.00	22.77	121.21	2,369.83	-4,497.17	-364.12	628.77	726.58	1.36	2,102,898.18	137,083.06	
2,606.00	22.95	120.10	2,457.37	-4,409.63	-382.93	660.52	763.48	0.49	2,102,878.95	137,114.56	
2,700.00	23.39	119.76	2,543.79	-4,323.21	-401.39	692.57	800.46	0.49	2,102,860.08	137,146.37	
2,764.00	22.51	121.15	2,602.72	-4,264.28	-414.03	714.09	825.41	1.61	2,102,847.16	137,167.72	
2,827.00	21.46	121.06	2,661.14	-4,205.86	-426.21	734.28	848.99	1.67	2,102,834.72	137,187.76	
2,891.00	20.31	120.85	2,720.93	-4,146.07	-437.95	753.84	871.80	1.80	2,102,822.73	137,207.17	
2,955.00	19.43	120.58	2,781.12	-4,085.88	-449.06	772.54	893.55	1.38	2,102,811.38	137,225.72	
3,018.00	18.38	120.23	2,840.72	-4,026.28	-459.39	790.15	913.96	1.68	2,102,800.82	137,243.19	
3,081.00	17.50	121.09	2,900.66	-3,966.34	-469.28	806.84	933.36	1.46	2,102,790.71	137,259.75	
3,145.00	15.83	118.73	2,961.97	-3,905.03	-478.45	822.74	951.71	2.82	2,102,781.34	137,275.53	

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #14M
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Site:	San Juan 30-6	MD Reference:	WELL @ 6867.00ft (AWS-KB 15' Correction)
Well:	#14M	North Reference:	True
Wellbore:	S-Well	Survey Calculation Method:	Minimum Curvature
Design:	S-Well	Database:	Midland Database

Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
3,208.00	14.68	119.30	3,022.75	-3,844.25	-486.49	837.24	968.28	1.84	2,102,773.11	137,289.92	
3,271.00	13.63	119.08	3,083.84	-3,783.16	-494.00	850.68	983.69	1.67	2,102,765.42	137,303.27	
3,334.00	12.93	118.00	3,145.15	-3,721.85	-500.92	863.40	998.16	1.18	2,102,758.34	137,315.89	
3,397.00	11.52	120.06	3,206.72	-3,660.28	-507.38	875.06	1,011.49	2.34	2,102,751.73	137,327.48	
3,460.00	10.46	120.32	3,268.57	-3,598.43	-513.42	885.45	1,023.50	1.68	2,102,745.56	137,337.78	
3,523.00	9.41	119.00	3,330.62	-3,536.38	-518.80	894.89	1,034.37	1.71	2,102,740.05	137,347.15	
3,586.00	8.18	117.00	3,392.88	-3,474.12	-523.33	903.39	1,044.00	2.01	2,102,735.41	137,355.59	
3,649.00	6.86	110.98	3,455.34	-3,411.66	-526.72	910.89	1,052.20	2.44	2,102,731.93	137,363.05	
3,712.00	5.63	113.38	3,517.96	-3,349.04	-529.29	917.24	1,058.99	2.00	2,102,729.28	137,369.37	
3,775.00	4.40	111.68	3,580.72	-3,286.28	-531.41	922.32	1,064.45	1.97	2,102,727.09	137,374.42	
3,837.00	4.22	112.84	3,642.54	-3,224.46	-533.17	926.64	1,069.07	0.32	2,102,725.27	137,378.71	
3,900.00	3.69	110.23	3,705.39	-3,161.61	-534.77	930.68	1,073.37	0.89	2,102,723.62	137,382.73	
3,995.00	3.25	114.65	3,800.22	-3,066.78	-536.95	935.99	1,079.07	0.54	2,102,721.37	137,388.01	
4,089.00	3.17	107.89	3,894.07	-2,972.93	-538.86	940.89	1,084.27	0.41	2,102,719.40	137,392.88	
4,183.00	2.55	105.05	3,987.95	-2,879.05	-540.20	945.38	1,088.84	0.68	2,102,718.00	137,397.36	
4,243.00	2.55	105.05	4,047.89	-2,819.11	-540.90	947.96	1,091.42	0.00	2,102,717.27	137,399.93	

Proj to TD @ 4243' MD

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #14M
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Site:	San Juan 30-6	MD Reference:	WELL @ 6867.00ft (AWS KB 15' Correction)
Well:	#14M	North Reference:	True
Wellbore:	S-Well	Survey Calculation Method:	Minimum Curvature
Design:	S-Well	Database:	Midland Database

Targets									
Target Name	- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	
- Shape		(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	Latitude Longitude
Vert Pt(Top of FC) 371		0.00	0.00	3,700.00	-531.50	925.60	2,102,726.958	137,377.694	36° 46' 20.691 N 107° 29' 17.179 W
- survey misses target center by 5.69ft at 3894.21ft MD (3699.62 TVD, -534.64 N, 930.32 E)									
- Point									
San Juan 30-6 Unit #:		0.00	0.00	0.00	-27.00	-91.00	2,103,244.602	136,367.724	36° 46' 25.679 N 107° 29' 29.673 W
- survey misses target center by 94.92ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Circle (radius 90.00)									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
4,243.00	4,047.89	-540.90	947.96	Proj to TD @ 4243' MD

Checked By: _____ Approved By: _____ Date: _____

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 04/11/2010
Date Completed: 04/16/2010

BURLINGTON RESOURCES OIL & GAS COMPANY LP.□

SAN JUAN 30-6 UNIT #14M

RIO ARriba COUNTY, NM

Rig:AWS-711

PathFinder Office Supervisor: Tom Schmidt

PathFinder Field Engineers:Justin Hawkins
Dustin Easley

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:36.46.25.9464 N LON:107.29.28.5504 W

GRID Reference:NAD27 new mexico central Transverse Mercator

Ref GRID Coord: X: 136459.4407 Y: 2103270.4142

North Aligned To:TRUE NORTH

Total Magnetic Correction: 9.94° EAST TO TRUE

Vertical Section Plane: 119.87

Survey Vert. Reference: 15.00' Rotary Table To Ground

Altitude:6852.00' Ground To MSL

Measured Depth	4243.00	(feet)
Inclination	2.55	(deg)
Azimuth	105.05	(deg)
True Vertical Depth	4047.90	(feet)
Vertical Section	1091.40	(feet)
Survey X cord	137407.41	(feet)
Survey Y cord	2102729.45	(feet)
Survey Lat	36.77242209 N	(deg)
Survey Lon	107.48800406 W	(deg)
Rectangular Corr. N/S	540.89 S	(feet)
Rectangular Corr. E/W	947.95 E	(feet)
Closure Distance	1091.41	(feet)
Direction of Closure	119.71	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 04/11/2010
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BURLINGTON RESOURCES OIL & GAS COMPANY LP.□

SAN JUAN 30-6 UNIT #14M

RIO ARriba COUNTY, NM

Rig:AWS-711

PathFinder Office Supervisor: Tom Schmidt

PathFinder Field Engineers:Justin Hawkins
Dustin Easley

Survey Horiz. Reference:WELLHEAD

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Vertical Section Plane: 119.87

Survey Vert. Reference: 15.00' Rotary Table To Ground

Altitude:6852.00' Ground To MSL

Measured Depth	4243.00	(feet)
Inclination	2.55	(deg)
Azimuth	105.05	(deg)
True Vertical Depth	4047.90	(feet)
Vertical Section	1091.40	(feet)
Survey X cord	137407.41	(feet)
Survey Y cord	2102729.45	(feet)
Survey Lat	36.77242209 N	(deg)
Survey Lon	107.48800406 W	(deg)
Rectangular Corr. N/S	540.89 S	(feet)
Rectangular Corr. E/W	947.95 E	(feet)
Closure Distance	1091.41	(feet)
Direction of Closure	119.71	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS COMPANY LP.□

SAN JUAN 30-6 UNIT #14M

RIO ARriba COUNTY, NM

Rig:AWS-711

PathFinder Office Supervisor: Tom Schmidt

PathFinder Field Engineers: Justin Hawkins

Dustin Easley

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:36.46.25.9464 N LON:107.29.28.5504 W

GRID Reference:NAD27 new mexico central Transverse Mercator

Ref GRID Coord: X: 136459.4407 Y: 2103270.4142

North Aligned To:TRUE NORTH

Total Magnetic Correction: 9.94° EAST TO TRUE

Vertical Section Plane: 119.87

Survey Vert. Reference: 15.00' Rotary Table To Ground

Altitude:6852.00' Ground To MSL

Survey Calculations by RX4 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)
TIE IN 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.										
261.00	0.53	28.43	261.00	261.00	-0.03	1.06 N	0.57 E	1.21@	28.43	0.20
292.00	0.88	70.31	291.99	31.00	0.12	1.27 N	0.87 E	1.54@	34.37	1.94
323.00	1.41	95.17	322.99	31.00	0.62	1.31 N	1.47 E	1.97@	48.23	2.31
385.00	3.17	107.50	384.94	62.00	2.99	0.73 N	3.87 E	3.93@	79.31	2.93
416.00	3.96	107.99	415.88	31.00	4.87	0.14 N	5.70 E	5.70@	88.58	2.55
447.00	4.57	111.58	446.79	31.00	7.14	0.64 S	7.87 E	7.89@	94.68	2.15
478.00	5.72	112.31	477.66	31.00	9.90	1.68 S	10.45 E	10.58@	99.16	3.72
509.00	6.86	114.21	508.48	31.00	13.27	3.03 S	13.56 E	13.90@	102.59	3.74
540.00	7.47	116.31	539.24	31.00	17.12	4.68 S	17.06 E	17.69@	105.35	2.14
571.00	8.09	116.09	569.95	31.00	21.31	6.54 S	20.82 E	21.83@	107.42	2.00
602.00	8.44	114.99	600.63	31.00	25.76	8.46 S	24.85 E	26.24@	108.79	1.24
632.00	9.23	116.62	630.27	30.00	30.35	10.46 S	28.99 E	30.82@	109.85	2.76
663.00	10.82	119.96	660.80	31.00	35.74	13.03 S	33.74 E	36.16@	111.12	5.46
694.00	11.96	121.76	691.19	31.00	41.86	16.17 S	38.99 E	42.21@	112.53	3.85
725.00	12.49	123.18	721.48	31.00	48.42	19.70 S	44.52 E	48.69@	113.87	1.96
756.00	12.66	121.77	751.74	31.00	55.16	23.32 S	50.22 E	55.37@	114.91	1.13
787.00	13.45	121.21	781.94	31.00	62.16	26.98 S	56.19 E	62.33@	115.65	2.58
817.00	14.25	121.37	811.07	30.00	69.34	30.71 S	62.33 E	69.48@	116.23	2.67
847.00	14.77	121.23	840.11	30.00	76.86	34.61 S	68.75 E	76.97@	116.73	1.74
878.00	15.12	122.34	870.06	31.00	84.85	38.83 S	75.54 E	84.94@	117.20	1.46
909.00	15.56	122.11	899.96	31.00	93.04	43.20 S	82.48 E	93.11@	117.64	1.43
940.00	16.44	121.22	929.76	31.00	101.58	47.68 S	89.75 E	101.63@	117.98	2.95

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS COMPANY LP. □
 SAN JUAN 30-6 UNIT #14M
 RIO ARriba COUNTY, NM
 RIG:AWS-711

Page 02/03

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)
970.00	16.88	121.75	958.50	30.00	110.18	52.18 S	97.09 E	110.22@	118.25	1.55
1001.00	17.24	122.12	988.13	31.00	119.27	56.99 S	104.81 E	119.30@	118.53	1.21
1032.00	18.03	121.53	1017.67	31.00	128.65	61.94 S	112.79 E	128.67@	118.77	2.61
1062.00	18.82	121.06	1046.14	30.00	138.13	66.86 S	120.89 E	138.15@	118.95	2.68
1093.00	19.79	121.50	1075.39	31.00	148.38	72.18 S	129.65 E	148.39@	119.11	3.16
1124.00	20.40	121.87	1104.51	31.00	159.02	77.78 S	138.71 E	159.03@	119.28	2.01
1155.00	21.46	121.11	1133.46	31.00	170.09	83.56 S	148.15 E	170.10@	119.42	3.53
1217.00	22.51	122.46	1190.95	62.00	193.29	95.79 S	167.88 E	193.29@	119.71	1.88
1310.00	23.92	120.94	1276.42	93.00	229.92	115.04 S	199.07 E	229.92@	120.02	1.65
1408.00	24.53	121.51	1365.79	98.00	270.12	135.89 S	233.46 E	270.13@	120.20	0.67
1502.00	25.50	120.05	1450.97	94.00	309.86	156.22 S	267.61 E	309.87@	120.27	1.22
1597.00	24.27	119.07	1537.15	95.00	349.84	175.95 S	302.38 E	349.84@	120.19	1.37
1692.00	23.83	117.52	1623.90	95.00	388.53	194.30 S	336.46 E	388.53@	120.01	0.81
1786.00	24.18	120.51	1709.78	94.00	426.76	212.85 S	369.89 E	426.76@	119.92	1.35
1880.00	24.53	120.01	1795.41	94.00	465.52	232.38 S	403.37 E	465.52@	119.95	0.43
1943.00	25.06	118.96	1852.60	63.00	491.94	245.38 S	426.37 E	491.94@	119.92	1.09
2038.00	25.24	120.64	1938.60	95.00	532.31	265.45 S	461.40 E	532.31@	119.91	0.78
2133.00	24.71	120.80	2024.72	95.00	572.42	285.94 S	495.88 E	572.42@	119.97	0.56
2227.00	24.09	120.57	2110.32	94.00	611.24	305.76 S	529.28 E	611.25@	120.01	0.67
2321.00	24.45	120.03	2196.01	94.00	649.88	325.25 S	562.64 E	649.88@	120.03	0.45
2416.00	24.01	120.29	2282.64	95.00	688.87	344.84 S	596.35 E	688.87@	120.04	0.48
2511.00	22.77	121.21	2369.83	95.00	726.58	364.11 S	628.76 E	726.58@	120.07	1.36
2606.00	22.95	120.10	2457.37	95.00	763.48	382.93 S	660.51 E	763.48@	120.10	0.49
2700.00	23.39	119.76	2543.79	94.00	800.46	401.38 S	692.56 E	800.47@	120.09	0.49
2764.00	22.51	121.15	2602.72	64.00	825.41	414.02 S	714.08 E	825.42@	120.11	1.62
2827.00	21.46	121.06	2661.14	63.00	848.99	426.21 S	734.27 E	849.00@	120.13	1.67
2891.00	20.31	120.85	2720.94	64.00	871.80	437.94 S	753.83 E	871.81@	120.15	1.80
2955.00	19.43	120.58	2781.13	64.00	893.55	449.05 S	772.54 E	893.57@	120.17	1.38
3018.00	18.38	120.23	2840.73	63.00	913.96	459.39 S	790.14 E	913.98@	120.17	1.68
3081.00	17.50	121.09	2900.66	63.00	933.37	469.28 S	806.83 E	933.38@	120.18	1.46

PathFinder Energy Services, Inc.

Survey Report

BURLINGTON RESOURCES OIL & GAS COMPANY LP. □
 SAN JUAN 30-6 UNIT #14M
 RIO ARriba COUNTY, NM
 RIG:AWS-711

Page 03/03

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)
3145.00	15.83	118.73	2961.97	64.00	951.72	478.44 S	822.73 E	951.73@	120.18	2.82
3208.00	14.68	119.30	3022.75	63.00	968.29	486.48 S	837.23 E	968.30@	120.16	1.84
3271.00	13.63	119.08	3083.84	63.00	983.70	494.00 S	850.67 E	983.71@	120.14	1.67
3334.00	12.93	118.00	3145.15	63.00	998.16	500.91 S	863.39 E	998.17@	120.12	1.18
3397.00	11.52	120.06	3206.72	63.00	1011.50	507.37 S	875.05 E	1011.51@	120.11	2.34
3460.00	10.46	120.32	3268.57	63.00	1023.51	513.41 S	885.44 E	1023.52@	120.11	1.68
3523.00	9.41	119.00	3330.62	63.00	1034.38	518.80 S	894.88 E	1034.39@	120.10	1.70
3586.00	8.18	117.00	3392.88	63.00	1044.00	523.33 S	903.38 E	1044.01@	120.08	2.01
3649.00	6.86	110.98	3455.34	63.00	1052.20	526.71 S	910.88 E	1052.20@	120.04	2.44
3712.00	5.63	113.38	3517.96	63.00	1058.99	529.28 S	917.23 E	1058.99@	119.99	2.00
3775.00	4.40	111.68	3580.72	63.00	1064.45	531.40 S	922.31 E	1064.45@	119.95	1.97
3837.00	4.22	112.84	3642.55	62.00	1069.07	533.17 S	926.63 E	1069.07@	119.92	0.32
3900.00	3.69	110.23	3705.40	63.00	1073.37	534.77 S	930.67 E	1073.37@	119.88	0.89
3995.00	3.25	114.65	3800.22	95.00	1079.06	536.95 S	935.98 E	1079.06@	119.84	0.54
4089.00	3.17	107.89	3894.07	94.00	1084.26	538.86 S	940.88 E	1084.26@	119.80	0.41
4183.00	2.55	105.05	3987.96	94.00	1088.82	540.20 S	945.37 E	1088.82@	119.74	0.68
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 4243' MD										
4243.00	2.55	105.05	4047.90	60.00	1091.40	540.89 S	947.95 E	1091.41@	119.71	0.00