

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 30-039-30664	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE
⁴ Property Code 31326	⁵ Property Name SAN JUAN 29-6 UNIT	⁶ Well Number 5N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6750

¹⁰ SURFACE LOCATION

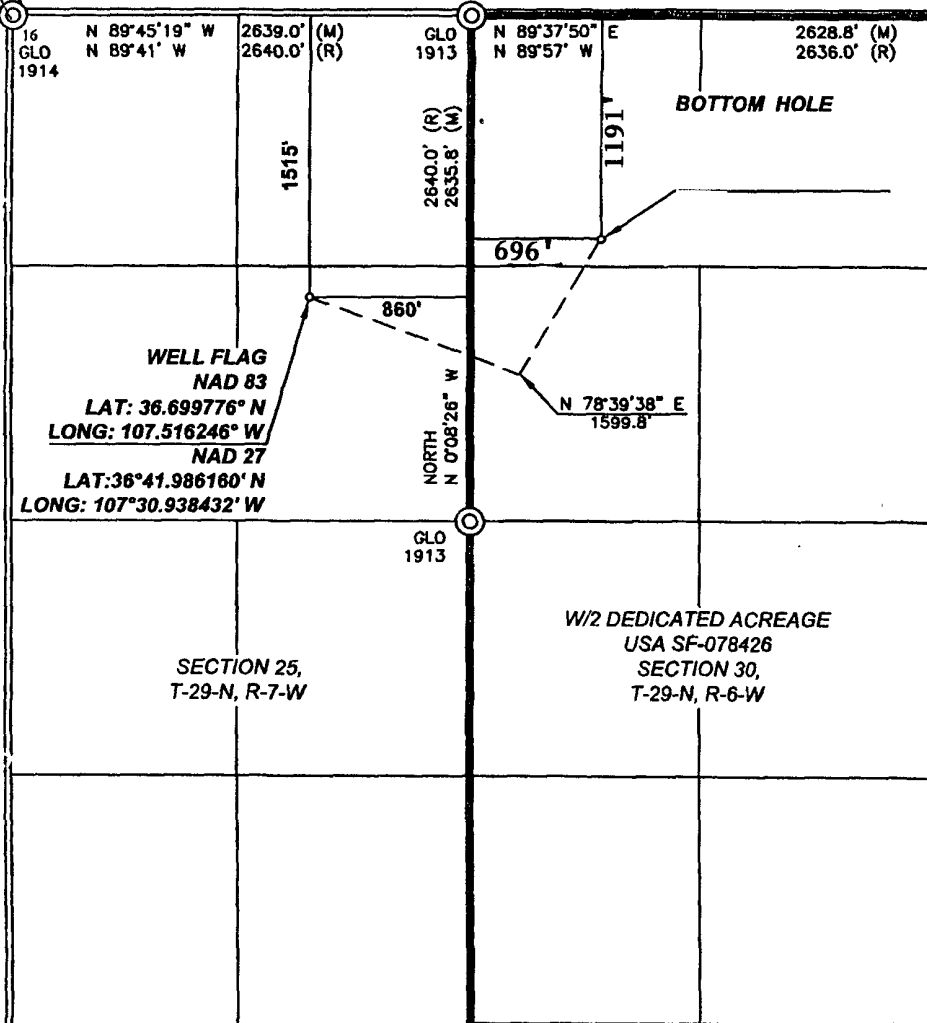
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	25	29-N	7-W		1515	NORTH	860	EAST	RIO ARRIBA

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
D	30	29-N	6-W		1191	NORTH	696	WEST	RIO ARRIBA

¹² Dedicated Acres 320.00 (W/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD AUG 4 '10 OIL CONS. DIV.
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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

DIST. 3¹⁷ 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.

Crystal Tafoya 8/3/10
Signature

Printed Name

Crystal Tafoya
Staff Regulatory Tech

Title and E-mail Address

August 3, 2010

Date

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: 6/13/08

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

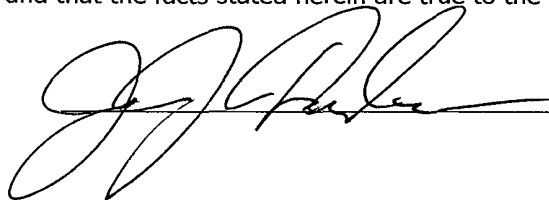
Legal WellName : SAN JUAN 29-6 UNIT #5N	API / UWI: 3003930664
Operator: CONOCOPHILLIPS COMPANY	Surf Loc: 025-029N-007W-H
St/Prov: NEW MEXICO	N/S Dist (ft): 1,515.00 - FNL
County: RIO ARRIBA	E/W Dist (ft): 860.00 - FEL

RCVD AUG 4 '10
OIL CONS. DIV.
DIST. 3

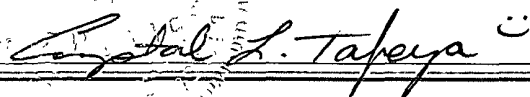
Wellbore Name : Original Hole					
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
INCLINATION SURVEYS	05/10/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/10/2010	130.00	1.00	.00	Inc-WL	MOTE
05/10/2010	236.00	.50	.00	Inc-WL	MOTE
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
DIRECTIONAL SURVEY	05/22/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/23/2010	.00	.00	.00	Inc-MWD	Pathfinder
05/23/2010	288.00	.35	281.94	Inc-MWD	Pathfinder
05/23/2010	350.00	.09	110.40	Inc-MWD	Pathfinder
05/23/2010	413.00	.97	75.60	Inc-MWD	Pathfinder
05/23/2010	475.00	2.29	69.41	Inc-MWD	Pathfinder
05/23/2010	537.00	3.96	78.27	Inc-MWD	Pathfinder
05/23/2010	599.00	4.92	78.04	Inc-MWD	Pathfinder
05/23/2010	662.00	7.65	81.13	Inc-MWD	Pathfinder
05/23/2010	724.00	9.67	79.03	Inc-MWD	Pathfinder
05/23/2010	786.00	11.96	78.37	Inc-MWD	Pathfinder
05/23/2010	848.00	14.60	78.68	Inc-MWD	Pathfinder
05/23/2010	910.00	16.36	80.84	Inc-MWD	Pathfinder
05/23/2010	972.00	18.73	81.07	Inc-MWD	Pathfinder
05/23/2010	1,033.00	21.19	80.11	Inc-MWD	Pathfinder
05/23/2010	1,095.00	23.74	79.95	Inc-MWD	Pathfinder
05/23/2010	1,157.00	26.20	78.89	Inc-MWD	Pathfinder
05/23/2010	1,219.00	28.84	79.02	Inc-MWD	Pathfinder
05/23/2010	1,312.00	29.99	77.28	Inc-MWD	Pathfinder
05/23/2010	1,407.00	31.39	78.18	Inc-MWD	Pathfinder
05/23/2010	1,501.00	31.92	77.64	Inc-MWD	Pathfinder
05/23/2010	1,596.00	32.45	78.20	Inc-MWD	Pathfinder
05/23/2010	1,692.00	31.04	77.74	Inc-MWD	Pathfinder
05/23/2010	1,787.00	30.86	77.96	Inc-MWD	Pathfinder
05/23/2010	1,882.00	30.25	78.32	Inc-MWD	Pathfinder
05/23/2010	1,977.00	30.42	76.70	Inc-MWD	Pathfinder
05/23/2010	2,072.00	30.72	79.00	Inc-MWD	Pathfinder
05/23/2010	2,167.00	31.30	79.35	Inc-MWD	Pathfinder

05/23/2010	2,263.00	30.25	77.78	Inc-MWD	Pathfinder
05/23/2010	2,358.00	30.60	80.89	Inc-MWD	Pathfinder
05/23/2010	2,453.00	30.34	81.39	Inc-MWD	Pathfinder
05/23/2010	2,549.00	29.28	80.42	Inc-MWD	Pathfinder
05/23/2010	2,644.00	28.58	79.30	Inc-MWD	Pathfinder
05/24/2010	2,739.00	29.11	79.20	Inc-MWD	Pathfinder
05/24/2010	2,835.00	27.70	78.45	Inc-MWD	Pathfinder
05/24/2010	2,929.00	27.26	79.21	Inc-MWD	Pathfinder
05/24/2010	3,024.00	28.23	78.46	Inc-MWD	Pathfinder
05/24/2010	3,119.00	29.02	78.61	Inc-MWD	Pathfinder
05/24/2010	3,214.00	28.75	78.53	Inc-MWD	Pathfinder
05/24/2010	3,309.00	28.31	78.34	Inc-MWD	Pathfinder
05/24/2010	3,404.00	27.61	77.59	Inc-MWD	Pathfinder
05/24/2010	3,499.00	25.85	77.28	Inc-MWD	Pathfinder
05/24/2010	3,563.00	24.97	77.05	Inc-MWD	Pathfinder
05/24/2010	3,626.00	23.92	76.98	Inc-MWD	Pathfinder
05/24/2010	3,689.00	22.51	76.16	Inc-MWD	Pathfinder
05/24/2010	3,752.00	21.37	74.15	Inc-MWD	Pathfinder
05/24/2010	3,942.00	15.56	69.87	Inc-MWD	Pathfinder
05/25/2010	4,005.00	15.12	69.65	Inc-MWD	Pathfinder
05/25/2010	4,069.00	15.04	72.14	Inc-MWD	Pathfinder
05/25/2010	4,132.00	14.60	75.95	Inc-MWD	Pathfinder
05/25/2010	4,196.00	12.66	76.26	Inc-MWD	Pathfinder
05/25/2010	4,259.00	10.64	79.24	Inc-MWD	Pathfinder
05/25/2010	4,323.00	8.62	84.11	Inc-MWD	Pathfinder
05/25/2010	4,387.00	7.03	86.91	Inc-MWD	Pathfinder
05/25/2010	4,456.00	5.10	91.56	Inc-MWD	Pathfinder
05/25/2010	4,516.00	3.87	90.93	Inc-MWD	Pathfinder
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
FINAL BH SURVEY	06/03/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
06/03/2010	8,399.00	2.00	.00	Inc-WL	PHOENIX

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 August 3, 2010



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010

RCVD AUG 4 '10

OIL CONS. DIV.

DIST. 3

DIRECTIONAL SURVEY REPORT

CONOCOPHILLIPS COMPANY

SAN JUAN 29-6 #5N

API # 30.039.30664

RIO ARRIBA COUNTY, NM

PREPARED BY: Tom Schmidt

5/27/2010

CONOCOPHILLPS COMPANY
Geneva Blackwater
3401 E 30th Street, Farmington 87402

RE: CONOCOPHILLPS COMPANY
SAN JUAN 29-6 #5N
RIO ARriba COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30664
PES FILE NO.: 601001943-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

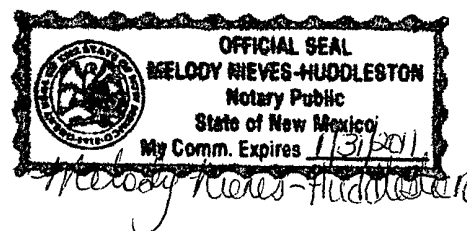
3 – Directional Survey Report Copies

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: 5/22/2010 TO 5/26/2010
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 29-6 #5N
RIO ARRIBA COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30664

9. SURVEY CERTIFIED FROM: 288 TO 4516 MEASURED DEPTH

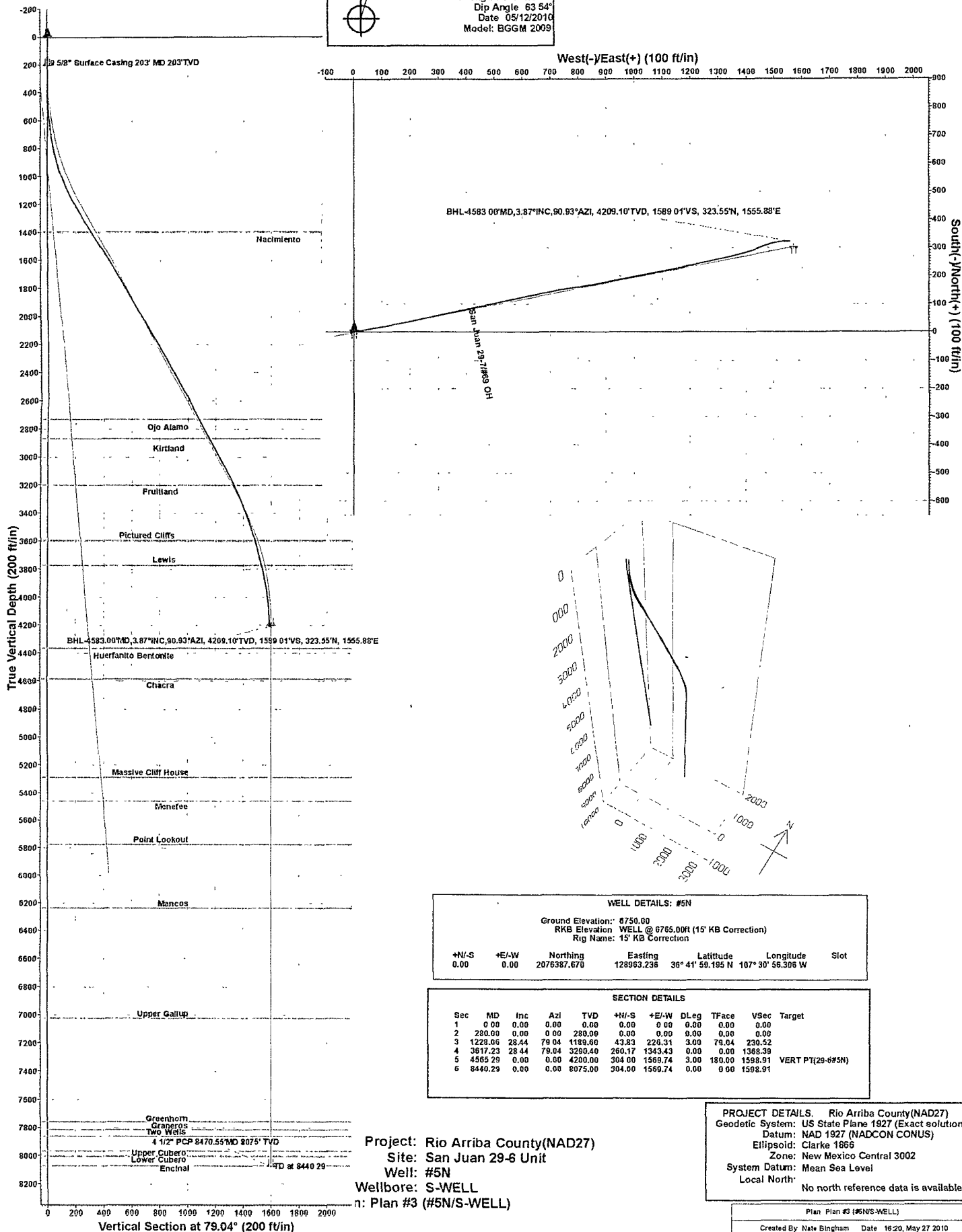
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 1589.16 FEET, ON A BEARING OF 78.25 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 4583 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Tom Schmidt
M/LWD SERVICE COORDINATOR



Azimuths to True North
Magnetic North: 9.91°
Magnetic Field
Strength: 50988.0nT
Dip Angle: 63.54°
Date: 05/12/2010
Model: BGGM 2009



WELL DETAILS: #5N						
Ground Elevation: 6750.00						
RKB Elevation: WELL @ 6765.00ft (15' KB Correction)						
Rig Name: 15' KB Correction						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	2076387.670	128963.236	36° 41' 59.195 N	107° 30' 56.306 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	0.00
2	280.00	0.00	0.00	280.00	0.00	0.00	0.00	0.00	0.00	0.00
3	1228.06	28.44	79.04	1189.60	43.83	226.31	3.00	79.04	230.52	
4	3617.23	28.44	79.04	3289.40	260.17	1343.43	0.00	0.00	1368.39	
5	4565.29	0.00	0.00	4200.00	304.00	1569.74	3.00	180.00	1598.91	VERT PT(29-695N)
6	8440.29	0.00	0.00	8075.00	304.00	1569.74	0.00	0.00	1598.91	

Project: Rio Arriba County(NAD27)
Site: San Juan 29-6 Unit
Well: #5N
Wellbore: S-WELL
n: Plan #3 (#5N/S-WELL)

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: No north reference data is available

Plan Plan #3 (#5N/S-WELL)
Created By: Nate Bingham Date: 16:20, May 27 2010
Checked: Date:



Conoco Phillips

Rio Arriba County(NAD27)

San Juan 29-6 Unit

#5N

S-WELL

Survey: MWD #1

Pathfinder X & Y Survey Report

27 May, 2010

The word "PATHFINDER" in a bold, sans-serif font. A stylized, dark, wing-like graphic element is positioned above the "o" in "Conoco".

PATHFINDER



Pathfinder
Pathfinder X & Y Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #5N
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6765.00ft (15' KB Correction)
Site:	San Juan 29-6 Unit	MD Reference:	WELL @ 6765.00ft (15' KB Correction)
Well:	#5N	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 29-6 Unit		
Site Position:		Northing:	2,076,387.670 ft
From:	Lat/Long	Easting:	128,963.236 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	36° 41' 59.195 N
		Longitude:	107° 30' 56.306 W
		Grid Convergence:	-0.76 °

Well	#5N					
Well Position	+N/-S	0.00 ft	Northing:	2,076,387.670 ft	Latitude:	36° 41' 59.195 N
	+E/-W	0.00 ft	Easting:	128,963.236 ft	Longitude:	107° 30' 56.306 W
Position Uncertainty	3.00 ft	Wellhead Elevation:	ft	Ground Level:	6,750.00 ft	

Wellbore		S-WELL			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	05/12/2010		9.91	63.54
					50,988

Design	S-WELL		
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Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	79.04

Survey Program		Date 05/27/2010		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
288.00	4,583.00	MWD #1 (S-WELL)	MWD	MWD - Standard



Pathfinder
Pathfinder X & Y Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #5N
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6765.00ft (15' KB Correction)
Site:	San Juan 29-6 Unit	MD Reference:	WELL @ 6765.00ft (15' KB Correction)
Well:	#5N	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	-6,765.00	0.00	0.00	0.00	0.00	2,076,387.67	128,963.24	
288.00	0.35	281.94	288.00	-6,477.00	0.18	-0.86	-0.81	0.12	2,076,387.86	128,962.38	
350.00	0.09	110.40	350.00	-6,415.00	0.20	-1.00	-0.94	0.71	2,076,387.89	128,962.24	
413.00	0.97	75.60	412.99	-6,352.01	0.32	-0.44	-0.37	1.42	2,076,388.00	128,962.80	
475.00	2.29	69.41	474.97	-6,290.03	0.89	1.23	1.38	2.14	2,076,388.54	128,964.48	
537.00	3.96	78.27	536.87	-6,228.13	1.76	4.49	4.74	2.80	2,076,389.37	128,967.75	
599.00	4.92	78.04	598.69	-6,166.31	2.74	9.18	9.54	1.55	2,076,390.29	128,972.45	
662.00	7.65	81.13	661.30	-6,103.70	3.95	15.97	16.43	4.36	2,076,391.41	128,979.26	
724.00	9.67	79.03	722.59	-6,042.41	5.58	25.16	25.76	3.30	2,076,392.91	128,988.47	
786.00	11.96	78.37	783.49	-5,981.51	7.86	36.57	37.40	3.70	2,076,395.05	128,999.90	
848.00	14.60	78.68	843.82	-5,921.18	10.69	50.52	51.64	4.26	2,076,397.69	129,013.90	
910.00	16.36	80.84	903.57	-5,861.43	13.62	66.81	68.18	2.99	2,076,400.40	129,030.22	
972.00	18.73	81.07	962.69	-5,802.31	16.55	85.27	86.86	3.82	2,076,403.10	129,048.71	
1,033.00	21.19	80.11	1,020.02	-5,744.98	19.97	105.80	107.67	4.07	2,076,406.24	129,069.29	
1,095.00	23.74	79.95	1,077.31	-5,687.69	24.07	129.14	131.36	4.11	2,076,410.03	129,092.68	
1,157.00	26.20	78.89	1,133.51	-5,631.49	28.89	154.86	157.53	4.03	2,076,414.51	129,118.46	
1,219.00	28.84	79.02	1,188.49	-5,576.51	34.37	182.97	186.17	4.26	2,076,419.62	129,146.65	
1,312.00	29.99	77.28	1,269.50	-5,495.50	43.76	227.67	231.84	1.54	2,076,428.42	129,191.46	
1,407.00	31.39	78.18	1,351.19	-5,413.81	54.06	275.05	280.31	1.55	2,076,438.09	129,238.97	
1,501.00	31.92	77.64	1,431.21	-5,333.79	64.39	323.28	329.63	0.64	2,076,447.79	129,287.34	
1,596.00	32.45	78.20	1,511.61	-5,253.39	74.98	372.76	380.22	0.64	2,076,457.72	129,336.96	
1,692.00	31.04	77.74	1,593.24	-5,171.76	85.50	422.16	430.72	1.49	2,076,467.59	129,386.49	
1,787.00	30.86	77.96	1,674.72	-5,090.28	95.79	469.93	479.57	0.22	2,076,477.24	129,434.39	
1,882.00	30.25	78.32	1,756.53	-5,008.47	105.71	517.19	527.85	0.67	2,076,486.55	129,481.78	
1,977.00	30.42	76.70	1,838.52	-4,926.48	116.09	564.03	575.81	0.88	2,076,496.30	129,528.75	
2,072.00	30.78	79.00	1,920.29	-4,844.71	126.26	611.30	624.15	1.29	2,076,505.85	129,576.15	
2,167.00	31.30	79.35	2,001.69	-4,763.31	135.46	659.41	673.14	0.58	2,076,514.41	129,624.38	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #5N
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6765.00ft (15' KB Correction)
Site:	San Juan 29-6 Unit	MD Reference:	WELL @ 6765.00ft (15' KB Correction)
Well:	#5N	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)	
2,263.00	30.25	77.78	2,084.17	-4,680.83	145.19	707.56	722.25	1.38	2,076,523.50	129,672.65	
2,358.00	30.60	80.89	2,166.09	-4,598.91	154.08	754.82	770.35	1.70	2,076,531.77	129,720.02	
2,453.00	30.34	81.39	2,247.97	-4,517.03	161.50	802.42	818.49	0.38	2,076,538.56	129,767.72	
2,549.00	29.28	80.42	2,331.27	-4,433.73	169.04	849.54	866.18	1.21	2,076,545.48	129,814.93	
2,644.00	28.58	79.30	2,414.42	-4,350.58	177.13	894.78	912.13	0.93	2,076,552.97	129,860.27	
2,739.00	29.11	79.20	2,497.63	-4,267.37	185.67	939.80	957.96	0.56	2,076,560.92	129,905.41	
2,835.00	27.70	78.45	2,582.07	-4,182.93	194.52	984.61	1,003.63	1.52	2,076,569.17	129,950.32	
2,929.00	27.26	79.21	2,665.46	-4,099.54	202.92	1,027.16	1,047.00	0.60	2,076,577.01	129,992.98	
3,024.00	28.23	78.46	2,749.54	-4,015.46	211.49	1,070.54	1,091.23	1.09	2,076,585.01	130,036.48	
3,119.00	29.02	78.61	2,832.93	-3,932.07	220.54	1,115.15	1,136.74	0.84	2,076,593.46	130,081.20	
3,214.00	28.75	78.53	2,916.11	-3,848.89	229.63	1,160.13	1,182.63	0.29	2,076,601.96	130,126.29	
3,309.00	28.31	78.34	2,999.57	-3,765.43	238.73	1,204.58	1,228.00	0.47	2,076,610.47	130,170.86	
3,404.00	27.61	77.59	3,083.48	-3,681.52	248.01	1,248.14	1,272.53	0.82	2,076,619.18	130,214.54	
3,499.00	25.85	77.28	3,168.33	-3,596.67	257.30	1,289.85	1,315.24	1.86	2,076,627.92	130,256.37	
3,563.00	24.97	77.05	3,226.14	-3,538.86	263.40	1,316.62	1,342.69	1.38	2,076,633.67	130,283.22	
3,626.00	23.92	76.98	3,283.49	-3,481.51	269.26	1,342.03	1,368.74	1.67	2,076,639.19	130,308.70	
3,689.00	22.51	76.16	3,341.39	-3,423.61	275.02	1,366.18	1,393.55	2.30	2,076,644.63	130,332.93	
3,752.00	21.37	74.15	3,399.82	-3,365.18	281.04	1,388.93	1,417.03	2.17	2,076,650.35	130,355.76	
3,942.00	15.56	69.87	3,579.97	-3,185.03	299.28	1,446.21	1,476.74	3.14	2,076,667.83	130,413.27	
4,005.00	15.12	69.65	3,640.73	-3,124.27	305.05	1,461.85	1,493.18	0.70	2,076,673.39	130,428.99	
4,069.00	15.04	72.14	3,702.53	-3,062.47	310.50	1,477.58	1,509.66	1.02	2,076,678.63	130,444.79	
4,132.00	14.60	75.95	3,763.43	-3,001.57	314.93	1,493.06	1,525.71	1.70	2,076,682.86	130,460.33	
4,196.00	12.66	76.26	3,825.63	-2,939.37	318.56	1,507.70	1,540.77	3.03	2,076,686.29	130,475.01	
4,259.00	10.64	79.24	3,887.33	-2,877.67	321.28	1,520.12	1,553.48	3.34	2,076,688.85	130,487.47	
4,323.00	8.62	84.11	3,950.42	-2,814.58	322.88	1,530.70	1,564.17	3.40	2,076,690.31	130,498.07	
4,387.00	7.03	86.91	4,013.82	-2,751.18	323.58	1,539.38	1,572.83	2.55	2,076,690.90	130,506.76	
4,456.00	5.10	91.56	4,082.43	-2,682.57	323.73	1,546.67	1,580.00	2.88	2,076,690.95	130,514.04	



Pathfinder
Pathfinder X & Y Survey Report



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well #5N
Project:	Rio Arriba County(NAD27)	TVD Reference:	WELL @ 6765.00ft (15' KB Correction)
Site:	San Juan 29-6 Unit	MD Reference:	WELL @ 6765.00ft (15' KB Correction)
Well:	#5N	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)	
4,516.00	3.87	90.93	4,142.25	-2,622.75	323.62	1,551.36	1,584.59	2.05	2,076,690.78	130,518.73	
4,583.00	3.87	90.93	4,209.10	-2,555.90	323.55	1,555.88	1,589.01	0.00	2,076,690.65	130,523.25	
BHL-4583.00°MD,3.87°INC,90.93°AZI, 4209.10°TVD, 1589.01°VS, 323.55°N, 1555.88°E											

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
VERT PT(29-6#5N)	0.00	0.00	4,200.00	304.00	1,569.74	2,076,670.920	130,536.858	36° 42' 2.200 N	107° 30' 37.032 W
- survey misses target center by 24.31ft at 4574.88ft MD (4201.00 TVD, 323.56 N, 1555.33 E)									
- Point									

Survey Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,583.00	4,209.10	323.55	1,555.88	BHL-4583.00°MD,3.87°INC,90.93°AZI, 4209.10°TVD, 1589.01°VS, 323.55°N, 1555.88°E	

Checked By: _____ Approved By: _____ Date: _____

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 05/22/2010
Date Completed: 05/25/2010

CONOCOPHILLIPS COMPANY

SAN JUAN 29-6 #5N

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:36.41.59.1936 N LON:107.30.58.4784 W

GRID Reference:NAD27 new mexico central Transverse Mercator

Ref GRID Coord: X: 128786.3195 Y: 2076389.9053

North Aligned To:TRUE NORTH

Total Magnetic Correction: 9.91° EAST TO TRUE

Vertical Section Plane: 79.04

Survey Vert. Reference: 15.00' Rotary Table To Ground

Altitude:6750.00' Ground To MSL

Measured Depth	4583.00	(feet)
Inclination	3.87	(deg)
Azimuth	90.93	(deg)
True Vertical Depth	4209.10	(feet)
Vertical Section	1589.01	(feet)
Survey X cord	130342.19	(feet)
Survey Y cord	2076713.53	(feet)
Survey Lat	36.70072110 N	(deg)
Survey Lon	107.51095246 W	(deg)
Rectangular Corr. N/S	323.55 N	(feet)
Rectangular Corr. E/W	1555.88 E	(feet)
Closure Distance	1589.16	(feet)
Direction of Closure	78.25	(deg)
Dogleg Severity	0.00	(deg/100ft)