

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 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 - 4 Copies
Fee Lease - 3 Copies

"AS DRILLED PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30869	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31327	⁵ Property Name SAN JUAN 30 - 5 UNIT	⁶ Well Number 90N
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6579'

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
C	22	30-N	5-W		485	NORTH	2390	WEST	RIO ARRIBA

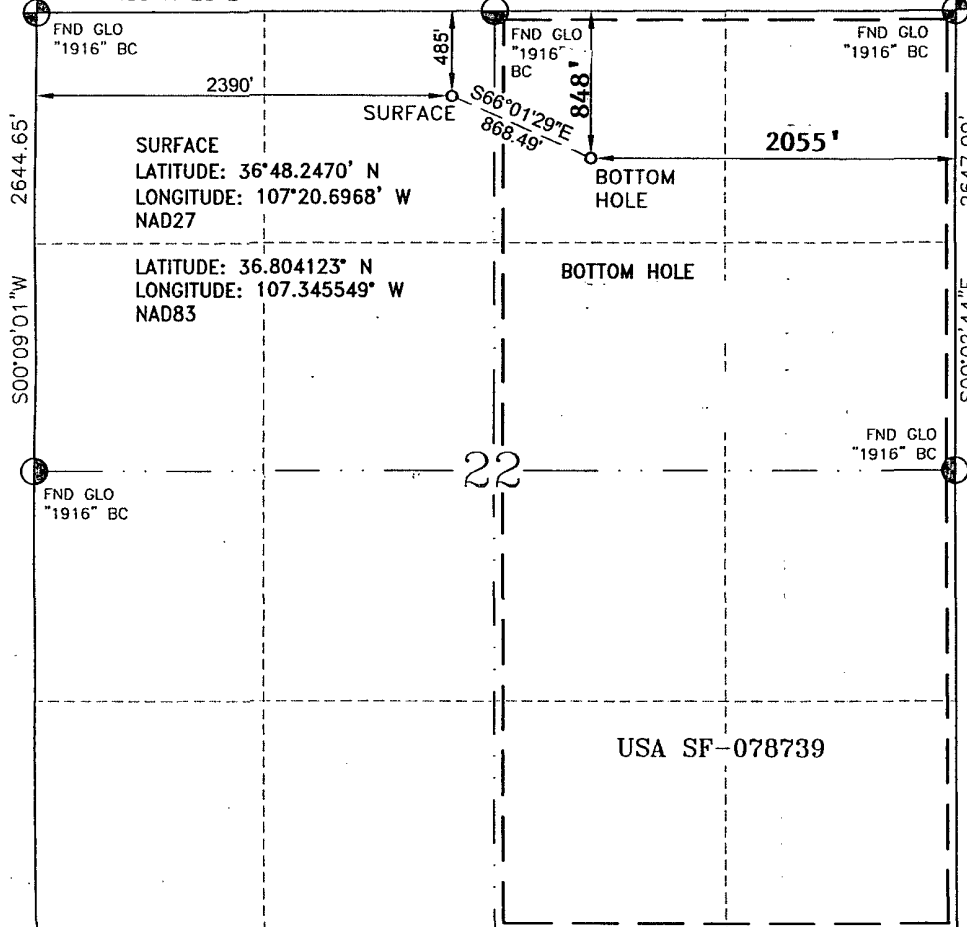
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	22	30-N	5-W		848	NORTH	2055	EAST	RIO ARRIBA

¹² Dedicated Acres DK 320.00 ACRES E/2 MV 320.00 ACRES E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD OCT 5 '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. 3**

N89°47'23"E 2632.14' S89°47'36"W 2634.91'



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 9/30/10
Signature
Crystal Tafoya 9/30/10
Printed Name

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

Signature and Seal of Professional Surveyor:

Certificate Number

15703

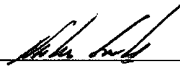
Legal WellName : SAN JUAN 30-5 UNIT #90N	API / UWI: 3003930869
Operator: CONOCOPHILLIPS COMPANY	Surf Loc: 022-030N-005W-C
St/Prov: NEW MEXICO	N/S Dist (ft): 485.00 - FNL
County: RIO ARRIBA	E/W Dist (ft): 2,390.00 - FWL

RCVD DCI 5.10
OIL CONS. DIV.
DIST. 3

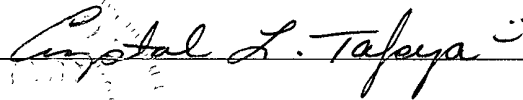
Wellbore Name : Original Hole					
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
INCLINATION SURVEY	06/24/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
06/24/2010	129.00	1.00	.00	Inc-Drop	MO-TE DRILLING INC
06/24/2010	236.00	1.00	.00	Inc-Drop	MO-TE DRILLING INC
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
DIRECTIONAL SURVEY	06/29/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
06/29/2010	252.00	.80	172.80	IncAzi-MWD	Pathfinder
06/29/2010	283.00	.90	174.10	IncAzi-MWD	Pathfinder
06/29/2010	314.00	1.20	134.00	IncAzi-MWD	Pathfinder
06/29/2010	345.00	2.10	118.00	IncAzi-MWD	Pathfinder
06/29/2010	376.00	2.90	110.70	IncAzi-MWD	Pathfinder
06/29/2010	407.00	4.00	107.10	IncAzi-MWD	Pathfinder
06/29/2010	438.00	4.50	106.00	IncAzi-MWD	Pathfinder
06/29/2010	499.00	5.50	107.20	IncAzi-MWD	Pathfinder
06/29/2010	561.00	7.60	108.00	IncAzi-MWD	Pathfinder
06/29/2010	623.00	8.20	108.30	IncAzi-MWD	Pathfinder
06/29/2010	683.00	8.30	109.60	IncAzi-MWD	Pathfinder
06/29/2010	745.00	8.70	110.10	IncAzi-MWD	Pathfinder
06/29/2010	806.00	9.80	111.80	IncAzi-MWD	Pathfinder
06/29/2010	868.00	10.70	112.90	IncAzi-MWD	Pathfinder
06/29/2010	928.00	12.00	113.10	IncAzi-MWD	Pathfinder
06/29/2010	990.00	13.20	113.80	IncAzi-MWD	Pathfinder
06/29/2010	1,052.00	14.30	115.40	IncAzi-MWD	Pathfinder
06/29/2010	1,114.00	15.70	116.00	IncAzi-MWD	Pathfinder
06/29/2010	1,176.00	17.00	115.50	IncAzi-MWD	Pathfinder
06/29/2010	1,238.00	18.00	115.40	IncAzi-MWD	Pathfinder
06/29/2010	1,299.00	19.30	114.70	IncAzi-MWD	Pathfinder
06/29/2010	1,362.00	20.00	115.10	IncAzi-MWD	Pathfinder
06/29/2010	1,425.00	21.70	115.40	IncAzi-MWD	Pathfinder
06/29/2010	1,489.00	23.00	116.20	IncAzi-MWD	Pathfinder
06/29/2010	1,553.00	23.10	114.60	IncAzi-MWD	Pathfinder
06/29/2010	1,617.00	22.00	117.60	IncAzi-MWD	Pathfinder
06/29/2010	1,711.00	23.60	113.00	IncAzi-MWD	Pathfinder

06/29/2010	1,806.00	23.50	113.60	IncAzi-MWD	Pathfinder
06/30/2010	1,901.00	24.40	113.50	IncAzi-MWD	Pathfinder
06/30/2010	1,996.00	25.00	111.50	IncAzi-MWD	Pathfinder
06/30/2010	2,091.00	25.10	113.00	IncAzi-MWD	Pathfinder
06/30/2010	2,186.00	26.70	113.40	IncAzi-MWD	Pathfinder
06/30/2010	2,280.00	27.10	116.00	IncAzi-MWD	Pathfinder
06/30/2010	2,375.00	27.30	116.40	IncAzi-MWD	Pathfinder
06/30/2010	2,470.00	26.30	116.60	IncAzi-MWD	Pathfinder
06/30/2010	2,565.00	25.70	116.70	IncAzi-MWD	Pathfinder
06/30/2010	2,596.00	24.90	116.70	IncAzi-MWD	Pathfinder
06/30/2010	2,628.00	23.30	115.20	IncAzi-MWD	Pathfinder
06/30/2010	2,660.00	21.40	115.20	IncAzi-MWD	Pathfinder
06/30/2010	2,692.00	19.50	115.80	IncAzi-MWD	Pathfinder
06/30/2010	2,723.00	18.50	116.10	IncAzi-MWD	Pathfinder
06/30/2010	2,755.00	18.10	115.40	IncAzi-MWD	Pathfinder
06/30/2010	2,786.00	17.90	115.40	IncAzi-MWD	Pathfinder
06/30/2010	2,818.00	17.60	116.20	IncAzi-MWD	Pathfinder
06/30/2010	2,849.00	17.00	115.10	IncAzi-MWD	Pathfinder
06/30/2010	2,882.00	16.20	114.30	IncAzi-MWD	Pathfinder
06/30/2010	2,913.00	15.20	113.40	IncAzi-MWD	Pathfinder
06/30/2010	2,945.00	14.60	114.00	IncAzi-MWD	Pathfinder
06/30/2010	2,977.00	13.80	114.50	IncAzi-MWD	Pathfinder
06/30/2010	3,009.00	12.70	119.00	IncAzi-MWD	Pathfinder
06/30/2010	3,040.00	11.90	118.00	IncAzi-MWD	Pathfinder
06/30/2010	3,072.00	11.30	116.90	IncAzi-MWD	Pathfinder
06/30/2010	3,103.00	10.50	115.00	IncAzi-MWD	Pathfinder
06/30/2010	3,135.00	9.80	114.80	IncAzi-MWD	Pathfinder
06/30/2010	3,167.00	8.40	113.80	IncAzi-MWD	Pathfinder
06/30/2010	3,198.00	6.90	115.80	IncAzi-MWD	Pathfinder
06/30/2010	3,230.00	6.20	119.30	IncAzi-MWD	Pathfinder
06/30/2010	3,261.00	6.20	119.90	IncAzi-MWD	Pathfinder
06/30/2010	3,293.00	5.60	121.20	IncAzi-MWD	Pathfinder
06/30/2010	3,325.00	4.20	117.70	IncAzi-MWD	Pathfinder
06/30/2010	3,357.00	3.00	108.90	IncAzi-MWD	Pathfinder
06/30/2010	3,388.00	1.70	96.50	IncAzi-MWD	Pathfinder
06/30/2010	3,483.00	1.70	45.60	IncAzi-MWD	Pathfinder
06/30/2010	3,578.00	1.80	49.20	IncAzi-MWD	Pathfinder
06/30/2010	3,673.00	1.80	49.50	IncAzi-MWD	Pathfinder
06/30/2010	3,768.00	2.10	55.20	IncAzi-MWD	Pathfinder
06/30/2010	3,823.00	1.80	46.00	IncAzi-MWD	Pathfinder
06/30/2010	3,882.00	1.80	46.00	IncAzi-MWD	Pathfinder
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
FINAL BH SURVEY	07/07/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
07/07/2010	8,113.00	1.50	.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 October 1, 2010



Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2014

RCVD OCT 5 '10

OIL CONS. DIV.

DIST. 3

DIRECTIONAL SURVEY REPORT

CONOCOPHILLIPS COMPANY

San Juan 30-5 #90N

API # 30.039.30869

RIO ARRIBA COUNTY, NM

PREPARED BY: Tom Schmidt

7/2/2010

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

RE: CONOCOPHILLPS COMPANY
SAN JUAN 30-5 UNIT #90N
RIO ARriba COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30869
PES FILE NO.: 601001972-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

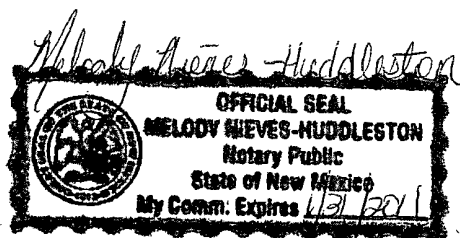
3 – Directional Survey Report Copies

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



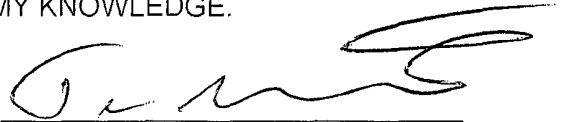
DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: SHAREWELL
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) Justin Hawkins
B) Jason Banks
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 6/28/2010 TO 6/30/2010
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:

CONOCOPHILLPS COMPANY
SAN JUAN 30-5 UNIT #90N
RIO ARRIBA COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30869

9. SURVEY CERTIFIED FROM: 252 TO 3823 MEASURED DEPTH

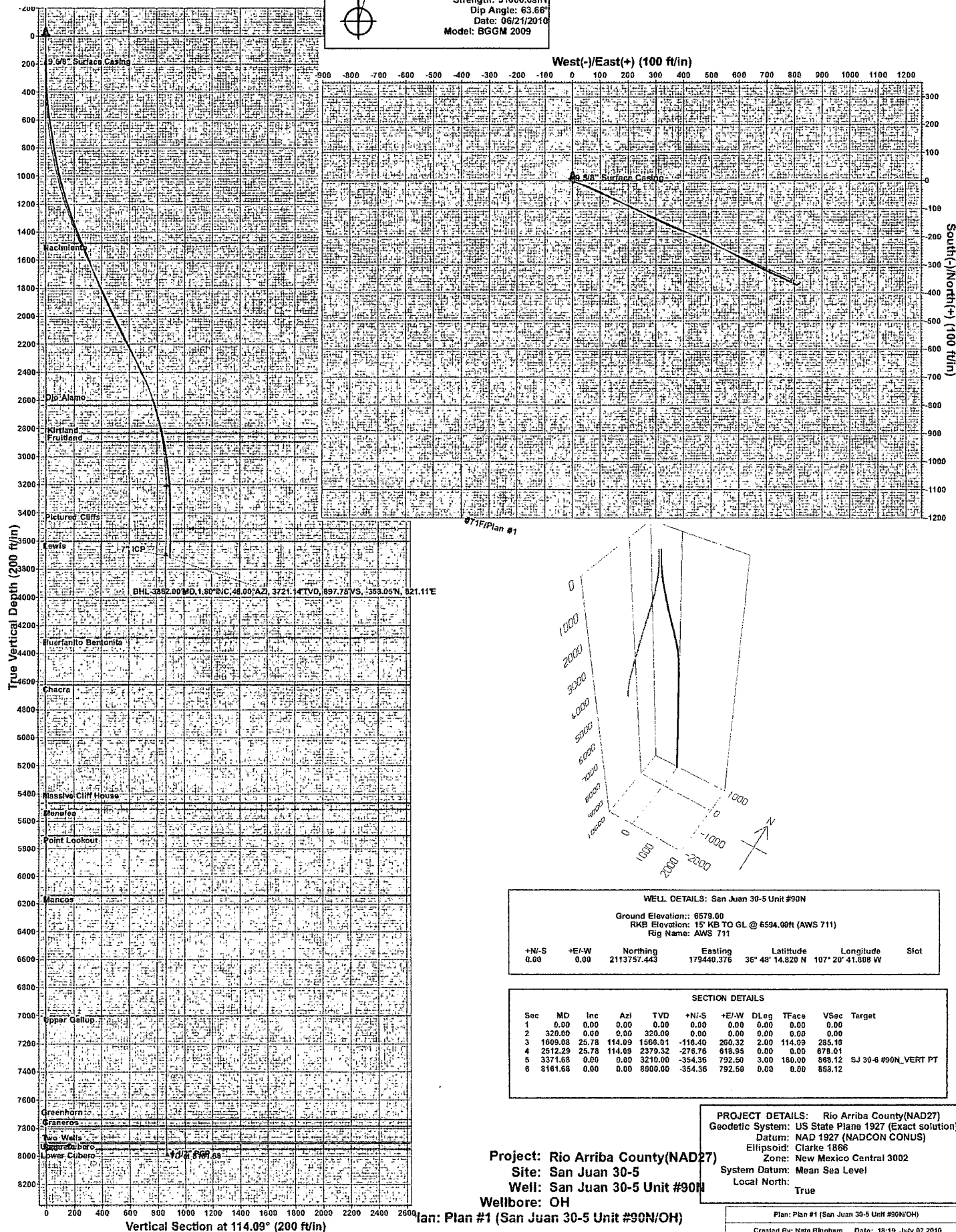
THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 897.78 FEET, ON A BEARING OF 114 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 3882 FEET, ARE
TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Tom Schmidt
M/LWD SERVICE COORDINATOR



Azimuths to True North
Magnetic North: 9.84°
Magnetic Field
Strength: 51060.0nT
Dip Angle: 63.66°
Date: 06/21/2010
Model: BGGM 2009



WELL DETAILS: San Juan 30-5 Unit #90N

Ground Elevation: 6579.00
RKB Elevation: 15' KB TO GL @ 6594.00ft (AWS 711)
Rig Name: AWS 711

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	2113757.443	179440.376	36° 48' 14.820 N	107° 20' 41.508 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLog	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	
3	1609.03	25.78	114.09	1569.01	-116.40	260.32	2.00	114.03	235.10	
4	2512.29	25.78	114.09	2379.32	-275.76	618.95	0.00	0.00	678.01	
5	3371.68	0.00	0.00	3210.00	-354.36	792.50	3.00	180.00	868.12	SJ 30-5 #90N_VERT PT
6	8161.68	0.00	0.00	8000.00	-354.36	792.50	0.00	0.00	868.12	

Project: Rio Arriba County(NAD27)
Site: San Juan 30-5
Well: San Juan 30-5 Unit #90N
Wellbore: OH

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

Plan: Plan #1 (San Juan 30-5 Unit #90N/OH)
Created By: Nate Bingham Date: 18:19, July 02 2010
Checked: _____ Date: _____



Conoco Phillips

Rio Arriba County(NAD27)

San Juan 30-5

San Juan 30-5 Unit #90N

OH

Survey: MWD #1

Pathfinder X & Y Survey Report

02 July, 2010

PATHFINDER

Company: Conoco Phillips
Project: Rio Arriba County(NAD27)
Site: San Juan 30-5
Well: San Juan 30-5 Unit #90N
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well San Juan 30-5 Unit #90N
TVD Reference: 15' KB TO GL @ 6594.00ft (AWS 711)
MD Reference: 15' KB TO GL @ 6594.00ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

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

System Datum: Mean Sea Level

Site: San Juan 30-5
Site Position: Northing: 2,113,757.443 ft
From: Easting: 179,440.376 ft
Position Uncertainty: Slot Radius: 6-1/8 "

Latitude: 36° 48' 14.820 N
Longitude: 107° 20' 41.808 W
Grid Convergence: -0.66 °

Well: San Juan 30-5 Unit #90N
Well Position: +N/-S 0.00 ft
Well Position: +E/-W 0.00 ft
Position Uncertainty: Wellhead Elevation: 3.50 ft

Latitude: 36° 48' 14.820 N
Longitude: 107° 20' 41.808 W
Ground Level: 6,579.00 ft

Wellbore: OH

Magnetics: Model Name: BGGM2009 Sample Date: 06/21/2010
 Declination (°): 9.84 Dip Angle (°): 63.66 Field Strength (nT): 51.060

Design: OH

Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section: Depth From (TVD) (ft): 0.00 +N/-S (ft): 0.00 +E/-W (ft): 0.00 Direction (°): 114.09

Survey Program: Date: 07/02/2010

From (ft): 252.00 **To (ft):** 3,882.00 **Survey (Wellbore):** MWD #1 (OH) **Tool Name:** MWD **Description:** MWD - Standard

Company: Conoco Phillips		Local Co-ordinate Reference: Well San Juan 30-5 Unit #90N									
Project: Rio Arriba County(NAD27)		TVD Reference: 15' KB TO GL @ 6594.00ft (AWS 711)									
Site: San Juan 30-5		MD Reference: 15' KB TO GL @ 6594.00ft (AWS 711)									
Well: San Juan 30-5 Unit #90N		North Reference: True									
Wellbore: OH		Survey Calculation Method: Minimum Curvature									
Design: OH		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	-6,594.00	0.00	0.00	0.00	0.00	2,113,757.44	179,440.38	
252.00	0.80	172.80	251.99	-6,342.01	-1.75	0.22	0.91	0.32	2,113,755.70	179,440.58	
283.00	0.90	174.10	282.99	-6,311.01	-2.20	0.27	1.15	0.33	2,113,755.24	179,440.62	
314.00	1.20	134.00	313.98	-6,280.02	-2.67	0.53	1.57	2.49	2,113,754.77	179,440.88	
345.00	2.10	118.00	344.97	-6,249.03	-3.16	1.27	2.45	3.23	2,113,754.27	179,441.61	
376.00	2.90	110.70	375.94	-6,218.06	-3.71	2.50	3.80	2.77	2,113,753.71	179,442.84	
407.00	4.00	107.10	406.88	-6,187.12	-4.30	4.27	5.65	3.61	2,113,753.09	179,444.60	
438.00	4.50	106.00	437.80	-6,156.20	-4.95	6.47	7.93	1.63	2,113,752.42	179,446.79	
499.00	5.50	107.20	498.57	-6,095.43	-6.48	11.56	13.20	1.65	2,113,750.83	179,451.87	
561.00	7.60	108.00	560.16	-6,033.84	-8.62	18.30	20.23	3.39	2,113,748.61	179,458.58	
623.00	8.20	108.30	621.57	-5,972.43	-11.28	26.40	28.70	0.97	2,113,745.86	179,466.64	
683.00	8.30	109.60	680.95	-5,913.05	-14.08	34.54	37.28	0.35	2,113,742.97	179,474.75	
745.00	8.70	110.10	742.27	-5,851.73	-17.19	43.16	46.42	0.66	2,113,739.76	179,483.34	
806.00	9.80	111.80	802.47	-5,791.53	-20.70	52.31	56.21	1.86	2,113,736.14	179,492.45	
868.00	10.70	112.90	863.48	-5,730.52	-24.90	62.52	67.23	1.49	2,113,731.83	179,502.60	
928.00	12.00	113.10	922.31	-5,671.69	-29.52	73.38	79.04	2.17	2,113,727.09	179,513.42	
990.00	13.20	113.80	982.81	-5,611.19	-34.90	85.79	92.56	1.95	2,113,721.56	179,525.76	
1,052.00	14.30	115.40	1,043.04	-5,550.96	-41.04	99.18	107.30	1.88	2,113,715.27	179,539.08	
1,114.00	15.70	116.00	1,102.92	-5,491.08	-48.00	113.64	123.34	2.27	2,113,708.14	179,553.46	
1,176.00	17.00	115.50	1,162.41	-5,431.59	-55.58	129.36	140.78	2.11	2,113,700.38	179,569.09	
1,238.00	18.00	115.40	1,221.54	-5,372.46	-63.60	146.20	159.42	1.61	2,113,692.18	179,585.84	
1,299.00	19.30	114.70	1,279.34	-5,314.66	-71.85	163.87	178.92	2.16	2,113,683.72	179,603.41	
1,362.00	20.00	115.10	1,338.67	-5,255.33	-80.77	183.08	200.11	1.13	2,113,674.58	179,622.52	
1,425.00	21.70	115.40	1,397.54	-5,196.46	-90.34	203.36	222.53	2.70	2,113,664.78	179,642.69	
1,489.00	23.00	116.20	1,456.73	-5,137.27	-100.93	225.27	246.85	2.09	2,113,653.94	179,664.48	
1,553.00	23.10	114.60	1,515.62	-5,078.38	-111.68	247.91	271.90	0.99	2,113,642.93	179,686.99	
1,617.00	22.00	117.60	1,574.73	-5,019.27	-122.46	269.95	296.42	2.49	2,113,631.90	179,708.90	

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well San Juan 30-5 Unit #90N
Project:	Rio Arriba County(NAD27)	TVD Reference:	15' KB TO GL @ 6594.00ft (AWS 711)
Site:	San Juan 30-5	MD Reference:	15' KB TO GL @ 6594.00ft (AWS 711)
Well:	San Juan 30-5 Unit #90N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	1,711.00	23.60	113.00	1,661.39	-4,932.61	-137.97	302.87	332.81	2.55	2,113,616.01	179,741.65
	1,806.00	23.50	113.60	1,748.48	-4,845.52	-152.99	337.74	370.77	0.27	2,113,600.60	179,776.34
	1,901.00	24.40	113.50	1,835.30	-4,758.70	-168.39	373.09	409.33	0.95	2,113,584.79	179,811.51
	1,996.00	25.00	111.50	1,921.61	-4,672.39	-183.58	409.76	449.00	1.08	2,113,569.19	179,848.01
	2,091.00	25.10	113.00	2,007.67	-4,586.33	-198.81	446.99	489.20	0.68	2,113,553.53	179,885.06
	2,186.00	26.70	113.40	2,093.13	-4,500.87	-215.16	485.12	530.69	1.69	2,113,536.75	179,923.01
	2,280.00	27.10	116.00	2,176.96	-4,417.04	-232.93	523.75	573.21	1.32	2,113,518.53	179,961.43
	2,375.00	27.30	116.40	2,261.46	-4,332.54	-252.10	562.71	616.60	0.29	2,113,498.91	180,000.17
	2,470.00	26.30	116.60	2,346.25	-4,247.75	-271.21	601.05	659.40	1.06	2,113,479.37	180,038.28
	2,565.00	25.70	116.70	2,431.64	-4,162.36	-289.89	638.27	701.00	0.63	2,113,460.26	180,075.28
	2,596.00	24.90	116.70	2,459.66	-4,134.34	-295.85	650.10	714.24	2.58	2,113,454.17	180,087.05
	2,628.00	23.30	115.20	2,488.87	-4,105.13	-301.57	661.85	727.30	5.35	2,113,448.32	180,098.73
	2,660.00	21.40	115.20	2,518.47	-4,075.53	-306.75	672.86	739.46	5.94	2,113,443.01	180,109.68
	2,692.00	19.50	115.80	2,548.45	-4,045.55	-311.56	682.95	750.64	5.97	2,113,438.09	180,119.71
	2,723.00	18.50	116.10	2,577.76	-4,016.24	-315.97	692.03	760.73	3.24	2,113,433.57	180,128.74
	2,755.00	18.10	115.40	2,608.14	-3,985.86	-320.34	701.07	770.77	1.43	2,113,429.10	180,137.74
	2,786.00	17.90	115.40	2,637.62	-3,956.38	-324.45	709.73	780.35	0.65	2,113,424.89	180,146.34
	2,818.00	17.60	116.20	2,668.10	-3,925.90	-328.69	718.51	790.10	1.21	2,113,420.54	180,155.08
	2,849.00	17.00	115.10	2,697.70	-3,896.30	-332.69	726.82	799.31	2.20	2,113,416.46	180,163.34
	2,882.00	16.20	114.30	2,729.32	-3,864.68	-336.63	735.38	808.74	2.52	2,113,412.42	180,171.86
	2,913.00	15.20	113.40	2,759.16	-3,834.84	-340.02	743.06	817.13	3.32	2,113,408.94	180,179.49
	2,945.00	14.60	114.00	2,790.09	-3,803.91	-343.33	750.59	825.35	1.94	2,113,405.54	180,186.99
	2,977.00	13.80	114.50	2,821.11	-3,772.89	-346.55	757.75	833.20	2.53	2,113,402.24	180,194.11
	3,009.00	12.70	119.00	2,852.26	-3,741.74	-349.84	764.30	840.53	4.71	2,113,398.88	180,200.62
	3,040.00	11.90	118.00	2,882.55	-3,711.45	-352.99	770.10	847.11	2.67	2,113,395.66	180,206.38
	3,072.00	11.30	116.90	2,913.89	-3,680.11	-355.96	775.81	853.53	2.00	2,113,392.63	180,212.06
	3,103.00	10.50	115.00	2,944.33	-3,649.67	-358.53	781.08	859.39	2.83	2,113,390.00	180,217.30

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well San Juan 30-5 Unit #90N
Project:	Rio Arriba County(NAD27)	TVD Reference:	15' KB TO GL @ 6594.00ft (AWS 711)
Site:	San Juan 30-5	MD Reference:	15' KB TO GL @ 6594.00ft (AWS 711)
Well:	San Juan 30-5 Unit #90N	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland Database

Survey	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
	3,135.00	9.80	114.80	2,975.83	-3,618.17	-360.90	786.19	865.03	2.19	2,113,387.56	180,222.39
	3,167.00	8.40	113.80	3,007.43	-3,586.57	-362.99	790.80	870.09	4.40	2,113,385.43	180,226.97
	3,198.00	6.90	115.80	3,038.15	-3,555.85	-364.71	794.55	874.22	4.91	2,113,383.66	180,230.70
	3,230.00	6.20	119.30	3,069.94	-3,524.06	-366.39	797.79	877.86	2.52	2,113,381.94	180,233.92
	3,261.00	6.20	119.90	3,100.76	-3,493.24	-368.05	800.70	881.19	0.21	2,113,380.25	180,236.81
	3,293.00	5.60	121.20	3,132.59	-3,461.41	-369.72	803.53	884.46	1.92	2,113,378.55	180,239.62
	3,325.00	4.20	117.70	3,164.48	-3,429.52	-371.07	805.91	887.18	4.47	2,113,377.17	180,241.98
	3,357.00	3.00	108.90	3,196.41	-3,397.59	-371.89	807.74	889.18	4.12	2,113,376.33	180,243.80
	3,388.00	1.70	96.50	3,227.39	-3,366.61	-372.20	808.96	890.43	4.48	2,113,376.00	180,245.02
	3,483.00	1.70	45.60	3,322.35	-3,271.65	-371.37	811.37	892.29	1.54	2,113,376.80	180,247.44
	3,578.00	1.80	49.20	3,417.30	-3,176.70	-369.41	813.50	893.44	0.16	2,113,378.74	180,249.60
	3,673.00	1.80	49.50	3,512.26	-3,081.74	-367.47	815.77	894.71	0.01	2,113,380.66	180,251.88
	3,768.00	2.10	55.20	3,607.20	-2,986.80	-365.51	818.33	896.25	0.38	2,113,382.59	180,254.47
	3,823.00	1.80	46.00	3,662.17	-2,931.83	-364.33	819.78	897.09	0.79	2,113,383.75	180,255.93
	3,882.00	1.80	46.00	3,721.14	-2,872.86	-363.05	821.11	897.78	0.00	2,113,385.02	180,257.28

BHL-3882.00' MD, 1.80° INC, 46.00° AZI, 3721.14° TVD, 897.78° VS, -363.05° N, 821.11° E

Targets	Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
	SJ 30-6 #90N_VERT	0.00	359.35	3,210.00	-354.36	792.50	2,113,394.028	180,228.708	36° 48' 11.316 N	107° 20' 32.064 W
	- survey misses target center by 23.75ft at 3369.80ft MD (3209.19 TVD, -372.07 N, 808.32 E)									
	- Point									

Company: Conoco Phillips Project: Rio Arriba County(NAD27) Site: San Juan 30-5 Well: San Juan 30-5 Unit #90N Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: Well San Juan 30-5 Unit #90N MD Reference: 15' KB TO GL @ 6594.00ft (AWS 711) North Reference: 15' KB TO GL @ 6594.00ft (AWS 711) Survey Calculation Method: True Database: Minimum Curvature Midland Database	
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Survey Annotations		Local Coordinates		Comment
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	
3,882.00	3,721.14	-363.05	821.11	BHL-3882.00MD, 1.80°INC, 46.00°AZI, 3721.14TVD, 897.78VS, -363.0

Checked By: _____ Approved By: _____

Date: _____