

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

"AS DRILLED/PLAT"

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30890	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 37637	⁵ Property Name GOBERNADOR COM	⁶ Well Number 100
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6761'

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	15	29N	5W		1648'	NORTH	786'	EAST	RIO ARRIBA

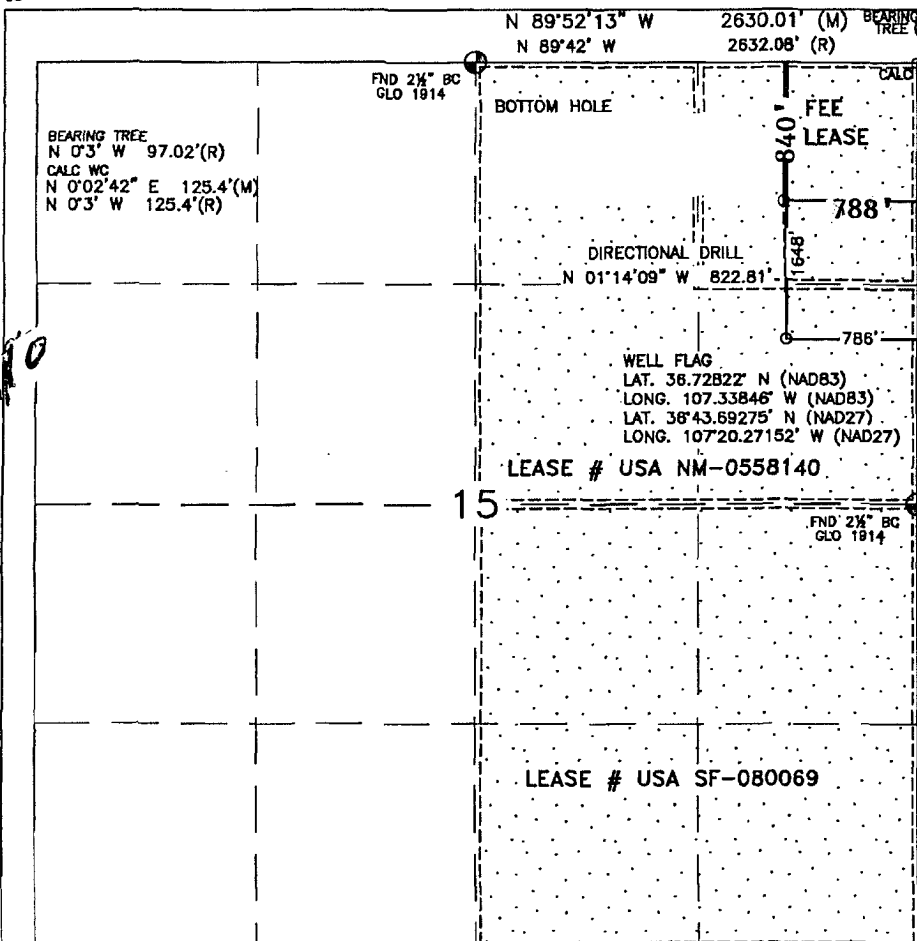
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	15	29N	5W		840'	NORTH	788'	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00 ACRES - E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. RCVD SEP 22 '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**

18



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 or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 9/17/10
Signature Date

Crystal Tafoya 9/17/2010
Printed Name

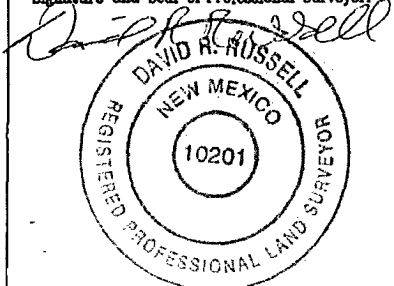
18 SURVEYOR CERTIFICATION

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.

MAY 11, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

Legal WellName : GOBERNADOR COM #100	API / UWI: 3003930890
Operator: CONOCOPHILLIPS COMPANY	Surf Loc: 015-029N-005W-H
St/Prov: NEW MEXICO	N/S Dist (ft): 1,648.00 - FNL
County: RIO ARriba	E/W Dist (ft): 786.00 - FEL

RCVD SEP 22 10
OIL CONS. DIV.
DIST. 3

Wellbore Name : Original Hole					
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
INCLINATION SURVEY	05/25/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
05/25/2010	120.00	1.00	.00	Inc-WL	MOTE
05/25/2010	225.00	1.25	.00	Inc-WL	MOTE
Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)	
DIRECTIONAL SURVEY	06/04/2010	.00	.00	.00	
Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
06/04/2010	.00	.00	.00	IncAzi-MWD	Pathfinder
06/04/2010	273.00	.50	232.40	IncAzi-MWD	Pathfinder
06/04/2010	304.00	.40	288.90	IncAzi-MWD	Pathfinder
06/04/2010	334.00	1.10	353.80	IncAzi-MWD	Pathfinder
06/04/2010	365.00	1.80	12.90	IncAzi-MWD	Pathfinder
06/04/2010	396.00	2.60	16.90	IncAzi-MWD	Pathfinder
06/04/2010	426.00	3.20	11.60	IncAzi-MWD	Pathfinder
06/04/2010	457.00	3.30	15.60	IncAzi-MWD	Pathfinder
06/04/2010	488.00	3.80	13.40	IncAzi-MWD	Pathfinder
06/04/2010	518.00	4.70	11.20	IncAzi-MWD	Pathfinder
06/04/2010	549.00	5.40	9.50	IncAzi-MWD	Pathfinder
06/04/2010	580.00	6.10	12.60	IncAzi-MWD	Pathfinder
06/04/2010	610.00	6.60	10.80	IncAzi-MWD	Pathfinder
06/04/2010	641.00	7.30	9.60	IncAzi-MWD	Pathfinder
06/04/2010	672.00	8.10	9.80	IncAzi-MWD	Pathfinder
06/04/2010	702.00	8.80	11.40	IncAzi-MWD	Pathfinder
06/04/2010	733.00	9.60	9.80	IncAzi-MWD	Pathfinder
06/04/2010	763.00	10.30	8.20	IncAzi-MWD	Pathfinder
06/04/2010	794.00	10.80	5.40	IncAzi-MWD	Pathfinder
06/04/2010	824.00	11.10	.50	IncAzi-MWD	Pathfinder
06/04/2010	855.00	11.30	357.40	IncAzi-MWD	Pathfinder
06/04/2010	886.00	11.90	356.20	IncAzi-MWD	Pathfinder
06/04/2010	917.00	12.10	356.40	IncAzi-MWD	Pathfinder
06/04/2010	947.00	12.90	357.00	IncAzi-MWD	Pathfinder
06/04/2010	978.00	13.30	358.20	IncAzi-MWD	Pathfinder
06/04/2010	1,008.00	14.30	358.60	IncAzi-MWD	Pathfinder
06/05/2010	1,040.00	15.60	358.70	IncAzi-MWD	Pathfinder

06/05/2010	1,071.00	16.50	358.80	IncAzi-MWD	Pathfinder
06/05/2010	1,103.00	16.40	358.60	IncAzi-MWD	Pathfinder
06/05/2010	1,134.00	17.20	.30	IncAzi-MWD	Pathfinder
06/05/2010	1,166.00	17.90	.30	IncAzi-MWD	Pathfinder
06/05/2010	1,197.00	18.60	1.20	IncAzi-MWD	Pathfinder
06/05/2010	1,229.00	19.30	.00	IncAzi-MWD	Pathfinder
06/05/2010	1,261.00	20.30	.00	IncAzi-MWD	Pathfinder
06/05/2010	1,292.00	20.60	359.80	IncAzi-MWD	Pathfinder
06/05/2010	1,323.00	21.60	359.70	IncAzi-MWD	Pathfinder
06/05/2010	1,355.00	22.60	358.40	IncAzi-MWD	Pathfinder
06/05/2010	1,419.00	22.10	359.10	IncAzi-MWD	Pathfinder
06/05/2010	1,482.00	21.60	358.50	IncAzi-MWD	Pathfinder
06/05/2010	1,545.00	22.50	358.80	IncAzi-MWD	Pathfinder
06/05/2010	1,608.00	22.60	358.90	IncAzi-MWD	Pathfinder
06/05/2010	1,671.00	22.30	359.60	IncAzi-MWD	Pathfinder
06/05/2010	1,734.00	22.20	.10	IncAzi-MWD	Pathfinder
06/05/2010	1,798.00	22.10	359.10	IncAzi-MWD	Pathfinder
06/05/2010	1,861.00	20.80	359.00	IncAzi-MWD	Pathfinder
06/05/2010	1,924.00	21.40	359.60	IncAzi-MWD	Pathfinder
06/05/2010	1,987.00	22.20	359.60	IncAzi-MWD	Pathfinder
06/05/2010	2,051.00	21.60	358.40	IncAzi-MWD	Pathfinder
06/05/2010	2,114.00	21.80	358.20	IncAzi-MWD	Pathfinder
06/05/2010	2,177.00	22.60	358.10	IncAzi-MWD	Pathfinder
06/05/2010	2,240.00	22.10	358.50	IncAzi-MWD	Pathfinder
06/05/2010	2,303.00	21.50	357.70	IncAzi-MWD	Pathfinder
06/05/2010	2,364.00	21.40	359.30	IncAzi-MWD	Pathfinder
06/05/2010	2,396.00	21.00	359.30	IncAzi-MWD	Pathfinder
06/05/2010	2,428.00	20.70	1.90	IncAzi-MWD	Pathfinder
06/05/2010	2,459.00	20.20	4.10	IncAzi-MWD	Pathfinder
06/05/2010	2,491.00	19.80	3.70	IncAzi-MWD	Pathfinder
06/05/2010	2,522.00	19.30	3.30	IncAzi-MWD	Pathfinder
06/05/2010	2,554.00	19.60	4.50	IncAzi-MWD	Pathfinder
06/05/2010	2,585.00	20.00	4.70	IncAzi-MWD	Pathfinder
06/05/2010	2,617.00	19.80	4.00	IncAzi-MWD	Pathfinder
06/05/2010	2,648.00	19.00	3.20	IncAzi-MWD	Pathfinder
06/05/2010	2,680.00	18.40	359.60	IncAzi-MWD	Pathfinder
06/05/2010	2,712.00	17.60	357.20	IncAzi-MWD	Pathfinder
06/05/2010	2,743.00	16.70	356.30	IncAzi-MWD	Pathfinder
06/05/2010	2,775.00	16.30	357.80	IncAzi-MWD	Pathfinder
06/05/2010	2,807.00	15.60	.00	IncAzi-MWD	Pathfinder
06/06/2010	2,839.00	14.50	.80	IncAzi-MWD	Pathfinder
06/06/2010	2,870.00	13.40	359.50	IncAzi-MWD	Pathfinder
06/06/2010	2,901.00	12.50	357.10	IncAzi-MWD	Pathfinder
06/06/2010	2,932.00	11.20	355.60	IncAzi-MWD	Pathfinder
06/06/2010	2,964.00	10.70	359.80	IncAzi-MWD	Pathfinder
06/06/2010	2,996.00	10.60	359.70	IncAzi-MWD	Pathfinder
06/06/2010	3,027.00	10.80	1.20	IncAzi-MWD	Pathfinder
06/06/2010	3,059.00	9.80	359.90	IncAzi-MWD	Pathfinder

06/06/2010	3,091.00	9.00	.30	IncAzi-MWD	Pathfinder
06/06/2010	3,123.00	8.70	358.90	IncAzi-MWD	Pathfinder
06/06/2010	3,154.00	8.20	1.20	IncAzi-MWD	Pathfinder
06/06/2010	3,185.00	7.50	.30	IncAzi-MWD	Pathfinder
06/06/2010	3,217.00	6.20	357.00	IncAzi-MWD	Pathfinder
06/06/2010	3,249.00	5.40	354.40	IncAzi-MWD	Pathfinder
06/06/2010	3,280.00	4.40	354.70	IncAzi-MWD	Pathfinder
06/06/2010	3,312.00	4.00	3.90	IncAzi-MWD	Pathfinder
06/06/2010	3,343.00	3.30	1.30	IncAzi-MWD	Pathfinder
06/06/2010	3,375.00	3.20	.30	IncAzi-MWD	Pathfinder
06/06/2010	3,406.00	2.20	8.80	IncAzi-MWD	Pathfinder
06/06/2010	3,438.00	1.30	7.60	IncAzi-MWD	Pathfinder
06/06/2010	3,469.00	.90	337.10	IncAzi-MWD	Pathfinder
06/06/2010	3,501.00	.60	303.60	IncAzi-MWD	Pathfinder
06/06/2010	3,532.00	.70	306.60	IncAzi-MWD	Pathfinder
06/06/2010	3,627.00	.40	233.50	IncAzi-MWD	Pathfinder
06/06/2010	3,722.00	.40	225.20	IncAzi-MWD	Pathfinder
06/06/2010	3,816.00	1.00	183.30	IncAzi-MWD	Pathfinder
06/06/2010	3,942.00	.70	180.30	IncAzi-MWD	Pathfinder
06/06/2010	4,007.00	.70	180.30	Projection	Pathfinder

Description	Date	MD Tie In (ft)	Inclination Tie In (°)	Azimuth Tie In (°)
FINAL BH SURVEY	07/02/2010	.00	.00	.00

Date	MD (ft)	Incl (°)	Azm (°)	Method	Survey Company
07/02/2010	3,927.00	1.25	.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.

M. L. B.

Subscribed and sworn to me this September 17, 2010

Crystal L. Tafaya

Notary Public in and for San Juan County, New Mexico

My Commission expires 10/12/2010



DIRECTIONAL SURVEY REPORT

CONOCOPHILLIPS COMPANY

Gobernador Com #100

API # 30-039-30890

RIO ARRIBA COUNTY, NM

PREPARED BY: Tom Schmidt

6/9/2010

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

RE: CONOCOPHILLPS COMPANY
GOBERNADOR COM #100
RIO ARriba COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30890
PES FILE NO.: 10101048-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

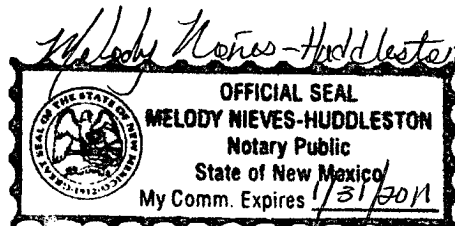
3 – Directional Survey Report Copies

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



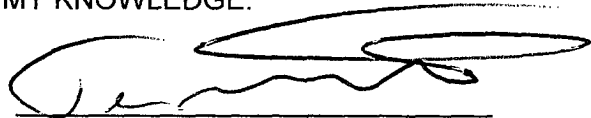
DIRECTIONAL SURVEY COMPANY REPORT:

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

GOBERNADOR COM #100
RIO ARRIBA COUNTY, NM
RIG: AZTEC 711
API NO: 30-039-30890

9. SURVEY CERTIFIED FROM: 273 TO 3942 MEASURED DEPTH

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 808.35 FEET, ON A BEARING OF 359 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED DEPTH OF 4007 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



Tom Schmidt
M/LWD SERVICE COORDINATOR



Conoco Phillips

Rio Arriba County(NAD27)
Gobernador Com

#100

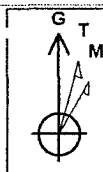
S-Well

Survey: MWD #1

Standard Survey Report

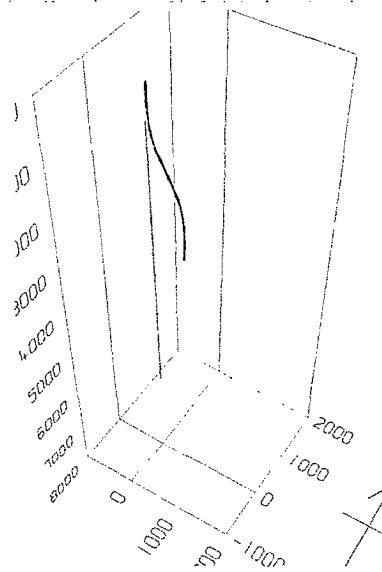
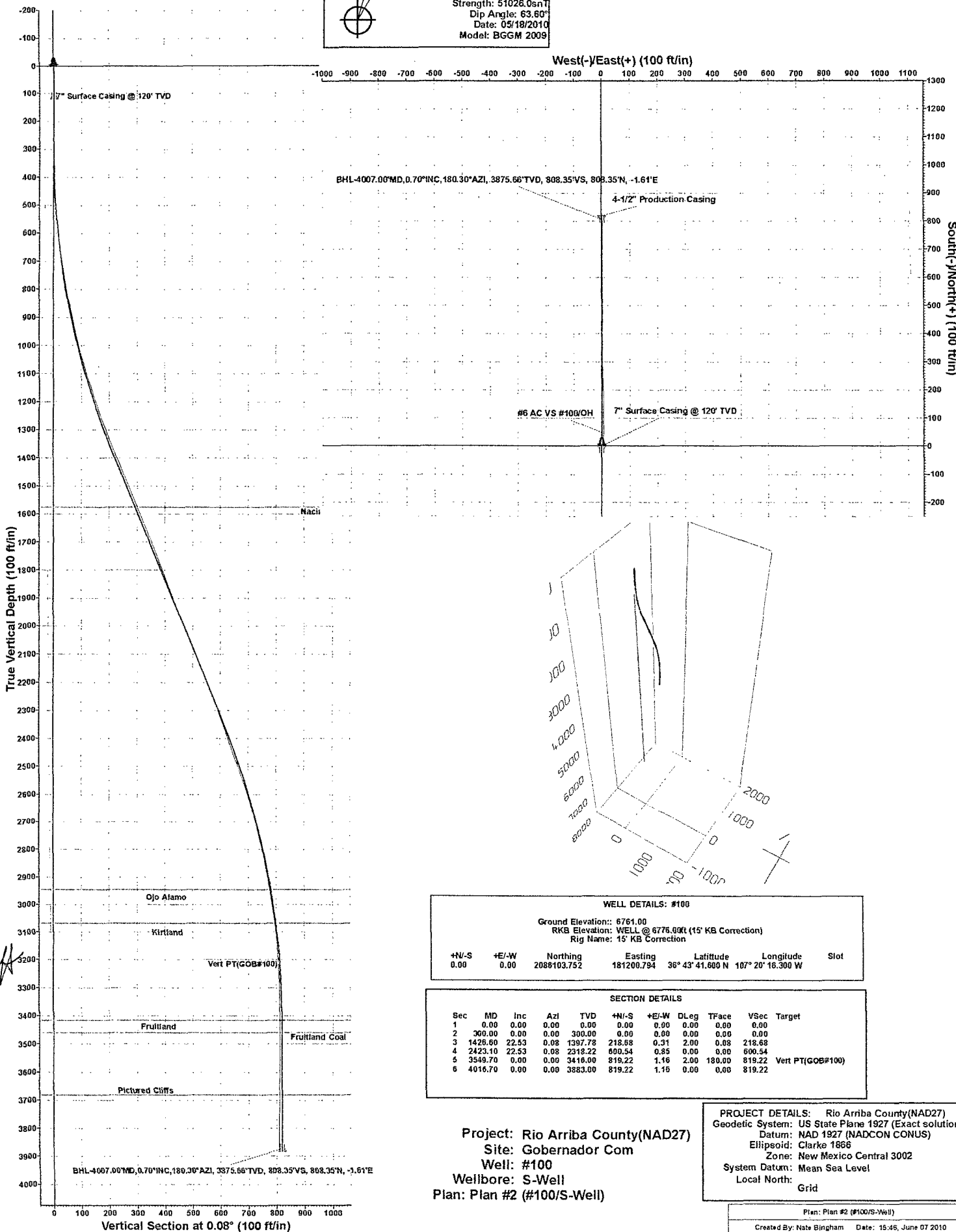
07 June, 2010

PATHFINDER



Azimuths to Grid North
True North: 0.65°
Magnetic North: 10.49°

Magnetic Field
Strength: 51026.0snT
Dip Angle: 63.80°
Date: 05/18/2010
Model: BGGM 2009



WELL DETAILS: #100							
Ground Elevation: 6761.00							
RKB Elevation: WELL @ 6775.00ft (15' KB Correction)							
Rig Name: 15' KB Correction							
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	2088103.752	181200.794	36° 43' 41.600 N	107° 20' 16.300 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	6.00	
2	360.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1426.60	22.53	0.08	1397.78	218.68	0.31	2.00	0.08	218.68	
4	2423.10	22.53	0.08	2318.22	600.54	0.85	0.00	0.00	600.54	
5	3549.70	0.00	0.00	3416.00	819.22	1.16	2.00	180.00	819.22	Vert PT(GOB#100)
6	4016.70	0.00	0.00	3883.00	819.22	1.15	0.00	0.00	819.22	

Project: Rio Arriba County(NAD27)
Site: Gobernador Com
Well: #100
Wellbore: S-Well
Plan: Plan #2 (#100/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: Grid

Plan: Plan #2 (#100/S-Well)
Created By: Nate Bingham Date: 15:45, June 07 2010
Checked: _____ Date: _____

Company: Conoco Phillips
Project: Rio Arriba County(NAD27)
Site: Gobernador Com
Well: #100
Wellbore: S-Well
Design: S-Well

Local Co-ordinate Reference: Well #100
TVD Reference: WELL @ 6776.00ft (15' KB Correction)
MD Reference: WELL @ 6776.00ft (15' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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: Gobernador Com

Site Position: Northing: 2,086,103.752 ft Latitude: 36° 43' 41.600 N
From: Lat/Long Easting: 181,200.794 ft Longitude: 107° 20' 16.300 W
Position Uncertainty: 0.00 ft Slot Radius: " Grid Convergence: -0.65 °

Well: #100
Well Position: +N/-S 0.00 ft Northing: 2,086,103.752 ft Latitude: 36° 43' 41.600 N
+E/-W 0.00 ft Easting: 181,200.794 ft Longitude: 107° 20' 16.300 W
Position Uncertainty: 3.50 ft Wellhead Elevation: ft Ground Level: 6,761.00 ft

Wellbore: S-Well

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	05/18/2010		9.84	63.60
					51,026

Design: S-Well

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	0.08

Survey Program: Date: 06/07/2010

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
273.00	4,007.00	MWD #1 (S-Well)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273.00	0.50	232.40	273.00	-0.73	-0.94	-0.73	0.18	0.18	0.00
304.00	0.40	288.90	304.00	-0.77	-1.15	-0.78	1.40	-0.32	182.26
334.00	1.10	353.80	333.99	-0.45	-1.28	-0.46	3.33	2.33	216.33
365.00	1.80	12.90	364.98	0.32	-1.21	0.31	2.71	2.26	61.61
396.00	2.60	16.90	395.96	1.46	-0.89	1.46	2.63	2.58	12.90
426.00	3.20	11.60	425.92	2.94	-0.53	2.93	2.19	2.00	-17.67
457.00	3.30	15.60	456.87	4.64	-0.11	4.64	0.80	0.32	12.90
488.00	3.80	13.40	487.81	6.50	0.36	6.50	1.67	1.61	-7.10
518.00	4.70	11.20	517.73	8.67	0.83	8.67	3.05	3.00	-7.33
549.00	5.40	9.50	548.61	11.36	1.32	11.36	2.31	2.26	-5.48
580.00	6.10	12.60	579.45	14.40	1.92	14.41	2.47	2.26	10.00
610.00	6.60	10.80	609.27	17.65	2.59	17.66	1.79	1.67	-6.00

Company: Conoco Phillips
Project: Rio Arriba County(NAD27)
Site: Gobernador Com
Well: #100
Wellbore: S-Well
Design: S-Well

Local Co-ordinate Reference: Well #100
TVD Reference: WELL @ 6776.00ft (15' KB Correction)
MD Reference: WELL @ 6776.00ft (15' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
641.00	7.30	9.60	640.04	21.35	3.25	21.35	2.31	2.26	-3.87
672.00	8.10	9.80	670.76	25.44	3.95	25.44	2.58	2.58	0.65
702.00	8.80	11.40	700.44	29.77	4.77	29.78	2.46	2.33	5.33
733.00	9.60	9.80	731.04	34.64	5.68	34.65	2.71	2.58	-5.16
763.00	10.30	8.20	760.59	39.76	6.48	39.77	2.51	2.33	-5.33
794.00	10.80	5.40	791.06	45.40	7.15	45.41	2.31	1.61	-9.03
824.00	11.10	0.50	820.52	51.08	7.44	51.09	3.26	1.00	-16.33
855.00	11.30	357.40	850.93	57.10	7.33	57.11	2.05	0.65	-10.00
886.00	11.90	356.20	881.29	63.33	6.98	63.33	2.09	1.94	-3.87
917.00	12.10	356.40	911.61	69.76	6.57	69.77	0.66	0.65	0.65
947.00	12.90	357.00	940.90	76.24	6.19	76.25	2.70	2.67	2.00
978.00	13.30	358.20	971.10	83.26	5.90	83.27	1.56	1.29	3.87
1,008.00	14.30	358.60	1,000.23	90.41	5.70	90.42	3.35	3.33	1.33
1,040.00	15.60	358.70	1,031.15	98.66	5.51	98.67	4.06	4.06	0.31
1,071.00	16.50	358.80	1,060.94	107.23	5.32	107.24	2.90	2.90	0.32
1,103.00	16.40	358.60	1,091.63	116.29	5.11	116.30	0.36	-0.31	-0.62
1,134.00	17.20	0.30	1,121.30	125.25	5.03	125.26	3.03	2.58	5.48
1,166.00	17.90	0.30	1,151.82	134.90	5.08	134.91	2.19	2.19	0.00
1,197.00	18.60	1.20	1,181.26	144.61	5.21	144.61	2.43	2.26	2.90
1,229.00	19.30	0.00	1,211.52	155.00	5.32	155.01	2.50	2.19	-3.75
1,261.00	20.30	0.00	1,241.63	165.84	5.32	165.84	3.12	3.12	0.00
1,292.00	20.60	359.80	1,270.68	176.67	5.30	176.68	0.99	0.97	-0.65
1,323.00	21.60	359.70	1,299.60	187.83	5.25	187.84	3.23	3.23	-0.32
1,355.00	22.60	358.40	1,329.25	199.86	5.05	199.87	3.48	3.12	-4.06
1,419.00	22.10	359.10	1,388.44	224.20	4.51	224.20	0.89	-0.78	1.09
1,482.00	21.60	358.50	1,446.91	247.64	4.02	247.64	0.87	-0.79	-0.95
1,545.00	22.50	358.80	1,505.30	271.28	3.47	271.29	1.44	1.43	0.48
1,608.00	22.60	358.90	1,563.49	295.44	2.98	295.44	0.17	0.16	0.16
1,671.00	22.30	359.60	1,621.71	319.49	2.67	319.50	0.64	-0.48	1.11
1,734.00	22.20	0.10	1,680.02	343.35	2.61	343.35	0.34	-0.16	0.79
1,798.00	22.10	359.10	1,739.30	367.48	2.44	367.48	0.61	-0.16	-1.56
1,861.00	20.80	359.00	1,797.93	390.51	2.06	390.51	2.06	-2.06	-0.16
1,924.00	21.40	359.60	1,856.71	413.19	1.78	413.19	1.01	0.95	0.95
1,987.00	22.20	359.60	1,915.20	436.58	1.62	436.59	1.27	1.27	0.00
2,051.00	21.60	358.40	1,974.58	460.45	1.20	460.45	1.17	-0.94	-1.87
2,114.00	21.80	358.20	2,033.12	483.73	0.51	483.73	0.34	0.32	-0.32
2,177.00	22.60	358.10	2,091.45	507.52	-0.26	507.52	1.27	1.27	-0.16
2,240.00	22.10	358.50	2,149.72	531.47	-0.97	531.47	0.83	-0.79	0.63
2,303.00	21.50	357.70	2,208.21	554.85	-1.74	554.85	1.06	-0.95	-1.27
2,364.00	21.40	359.30	2,264.99	577.15	-2.33	577.15	0.97	-0.16	2.62
2,396.00	21.00	359.30	2,294.82	588.72	-2.47	588.72	1.25	-1.25	0.00
2,428.00	20.70	1.90	2,324.73	600.11	-2.35	600.10	3.04	-0.94	8.12
2,459.00	20.20	4.10	2,353.77	610.92	-1.79	610.92	2.96	-1.61	7.10
2,491.00	19.80	3.70	2,383.84	621.84	-1.04	621.84	1.32	-1.25	-1.25
2,522.00	19.30	3.30	2,413.06	632.20	-0.41	632.19	1.67	-1.61	-1.29
2,554.00	19.60	4.50	2,443.23	642.83	0.32	642.83	1.56	0.94	3.75
2,585.00	20.00	4.70	2,472.40	653.29	1.16	653.29	1.31	1.29	0.65
2,617.00	19.80	4.00	2,502.49	664.15	1.99	664.16	0.97	-0.62	-2.19
2,648.00	19.00	3.20	2,531.73	674.43	2.64	674.43	2.72	-2.58	-2.58
2,680.00	18.40	359.60	2,562.04	684.68	2.89	684.68	4.06	-1.87	-11.25
2,712.00	17.60	357.20	2,592.47	694.56	2.62	694.57	3.41	-2.50	-7.50
2,743.00	16.70	356.30	2,622.09	703.69	2.10	703.69	3.03	-2.90	-2.90
2,775.00	16.30	357.80	2,652.77	712.77	1.63	712.77	1.83	-1.25	4.69
2,807.00	15.60	0.00	2,683.54	721.56	1.46	721.56	2.89	-2.19	6.87

Company: Conoco Phillips
Project: Rio Arriba County(NAD27)
Site: Gobernador Com
Well: #100
Wellbore: S-Well
Design: S-Well

Local Co-ordinate Reference: Well #100
TVD Reference: WELL @ 6776.00ft (15' KB Correction)
MD Reference: WELL @ 6776.00ft (15' KB Correction)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
2,839.00	14.50	0.80	2,714.44	729.86	1.52	729.87	3.50	-3.44	2.50
2,870.00	13.40	359.50	2,744.53	737.34	1.54	737.34	3.69	-3.55	-4.19
2,901.00	12.50	357.10	2,774.74	744.28	1.34	744.28	3.38	-2.90	-7.74
2,932.00	11.20	355.60	2,805.08	750.63	0.94	750.63	4.31	-4.19	-4.84
2,964.00	10.70	359.80	2,836.50	756.70	0.69	756.70	2.94	-1.56	13.12
2,996.00	10.60	359.70	2,867.95	762.62	0.66	762.62	0.32	-0.31	-0.31
3,027.00	10.80	1.20	2,898.41	768.37	0.71	768.37	1.11	0.65	4.84
3,059.00	9.80	359.90	2,929.89	774.09	0.77	774.09	3.21	-3.12	-4.06
3,091.00	9.00	0.30	2,961.46	779.32	0.78	779.32	2.51	-2.50	1.25
3,123.00	8.70	358.90	2,993.08	784.24	0.74	784.24	1.15	-0.94	-4.37
3,154.00	8.20	1.20	3,023.74	788.80	0.74	788.80	1.95	-1.61	7.42
3,185.00	7.50	0.30	3,054.45	793.03	0.80	793.03	2.29	-2.26	-2.90
3,217.00	6.20	357.00	3,086.22	796.84	0.72	796.84	4.24	-4.06	-10.31
3,249.00	5.40	354.40	3,118.06	800.07	0.48	800.07	2.63	-2.50	-8.12
3,280.00	4.40	354.70	3,148.95	802.70	0.23	802.70	3.23	-3.23	0.97
3,312.00	4.00	3.90	3,180.86	805.04	0.19	805.04	2.44	-1.25	28.75
3,343.00	3.30	1.30	3,211.80	807.01	0.29	807.01	2.32	-2.26	-8.39
3,375.00	3.20	0.30	3,243.75	808.82	0.31	808.82	0.36	-0.31	-3.12
3,406.00	2.20	8.80	3,274.71	810.28	0.41	810.28	3.47	-3.23	27.42
3,438.00	1.30	7.60	3,306.70	811.24	0.55	811.24	2.81	-2.81	-3.75
3,469.00	0.90	337.10	3,337.69	811.82	0.50	811.82	2.24	-1.29	-98.39
3,501.00	0.60	303.60	3,369.69	812.14	0.27	812.14	1.62	-0.94	-104.69
3,532.00	0.70	306.60	3,400.69	812.34	-0.02	812.34	0.34	0.32	9.68
3,627.00	0.40	233.50	3,495.68	812.49	-0.75	812.49	0.73	-0.32	-76.95
3,722.00	0.40	225.20	3,590.68	812.06	-1.26	812.06	0.06	0.00	-8.74
3,816.00	1.00	183.30	3,684.67	811.01	-1.54	811.01	0.80	0.64	-44.57
3,942.00	0.70	180.30	3,810.66	809.14	-1.60	809.14	0.24	-0.24	-2.38
4,007.00	0.70	180.30	3,875.66	808.35	-1.61	808.35	0.00	0.00	0.00

BHL-4007.00°MD,0.70°INC,180.30°AZI, 3875.66°TVD, 808.35°VS, 808.35°N, -1.61°E

Targets

Target Name

hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
Vert PT(GOB#100)	0.00	357.67	3,416.00	819.22	1.16	2,086,922.971	181,201.956	36° 43' 49.700 N	107° 20' 16.400 W
- survey misses target center by 6.91ft at 3547.31ft MD (3416.00 TVD, 812.44 N, -0.17 E)									
- Point									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,007.00	3,875.66	808.35	-1.61	BHL-4007.00°MD,0.70°INC,180.30°AZI, 3875.66°TVD, 808.35°VS, 808.35°N, -1.61°E

Checked By: _____ Approved By: _____ Date: _____