Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., 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 and Natural Resources

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

Form C-103
Jun 19, 2008

WELL API NO. **30-045-26905**

5. Indicate Type of Lease STATE ☒ FEE ☐

6. State Oil & Gas Lease No. **E-504-16**

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR, USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name **Allison Unit**

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

8. Well Number **100H**

2. Name of Operator **Burlington Resources Oil Gas Company LP**

9. OGRID Number **14538**

3. Address of Operator P.O. Box 4289, Farmington, NM 87499-4289

10. Pool name or Wildcat **Basin Fruitland Coal**

4. Well Location
Unit Letter K : 1775 feet from the South line and 1500 feet from the West line
Section 16 Township 32N Range 6W NMPM San Juan County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)* 5755' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
OTHER: ☒ Add Lateral		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Burlington Resources Oil & Gas , LP wishes to add two laterals to the original wellbore in the upper coal inter-tongue. Please see attached plat, C102 package, directional drill plan and project proposal.

Please note that this survey indicated the surface footages were wrong and the new surface location footages are attached. Please make a note of the revised footages which are 1775' FSL & 1550' FWL, Sec. 16, T32N, R6W. Also since this is now a lateral well we have changed the name to Allison Unit 100 H.

RCVD FEB 2 '10
OIL CONS. DIV.
DIST. 3

Spud Date: Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.**

SIGNATURE Patsy Clugston TITLE Sr. Regulatory Specialist DATE 1/31/10

Type or print name Patsy Clugston E-mail address: clugspl@conocophillips.com PHONE: 505-326-9518

For State Use Only

APPROVED BY: TITLE Deputy Oil & Gas Inspector, District #3 DATE FEB 0 8 2010

Conditions of Approval (if any):

Hold C104 for Directional Survey and "As Drilled" plat for each completion

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

DISTRICT II
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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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT (LATERAL)

1 API Number	2 Pool Code	3 Pool Name
30-045-26905	71629	BASIN FRUITLAND COAL

4 Property Code	5 Property Name	6 Well Number
6784	ALLISON UNIT	100 H

7 OGRID No.	8 Operator Name	9 Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	6132'

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
K	16	32-N	6-W		1775'	SOUTH	1550'	WEST	SAN JUAN

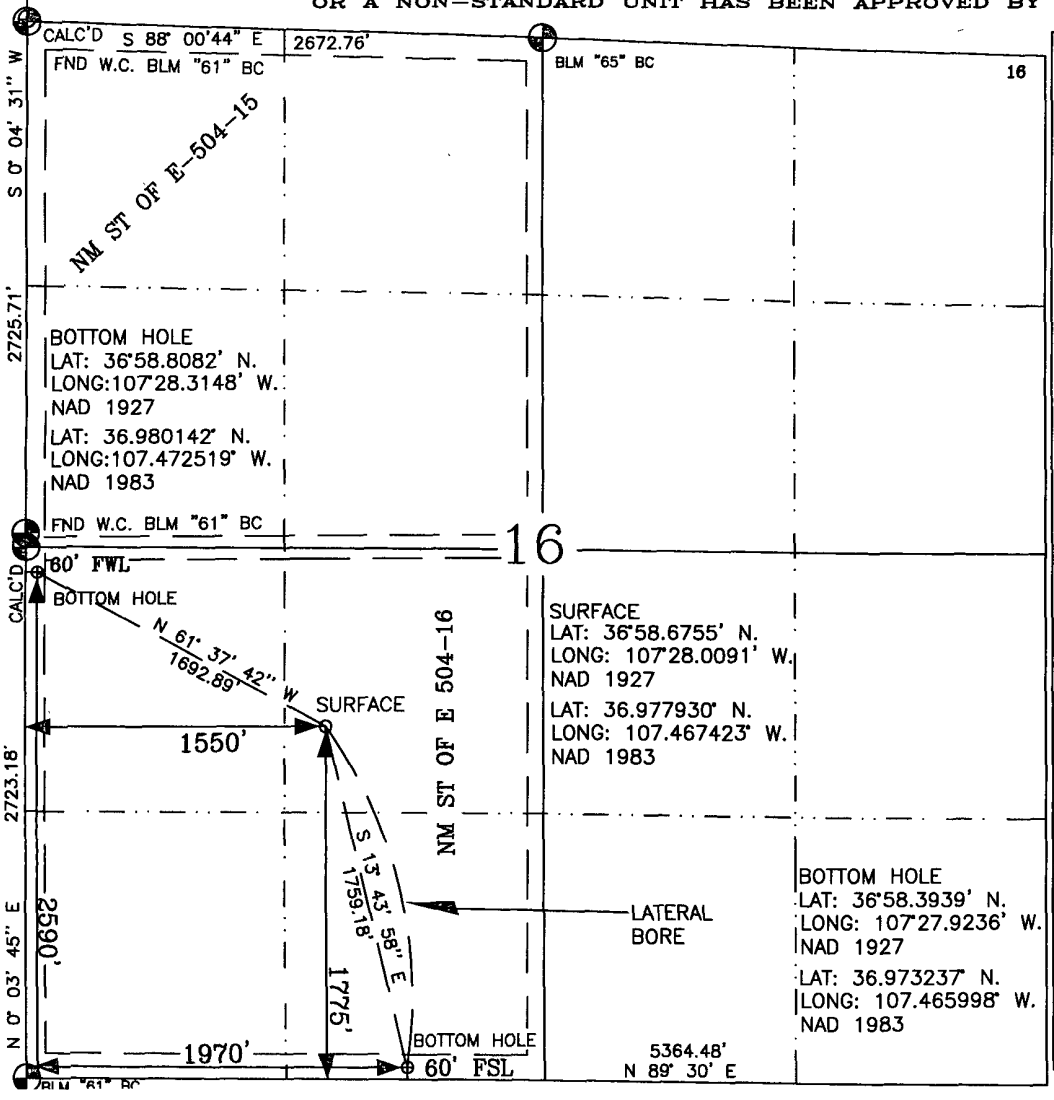
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	16	32-N	6-W		2590'	SOUTH	60'	WEST	SAN JUAN
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	16	32-N	6-W		60'	SOUTH	1970'	WEST	SAN JUAN

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
FC 320.00 ACRE W/2			

RCVD FEB 2'10
OIL CONS. DIV.
DIST. 3

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



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 9/1/09
Signature

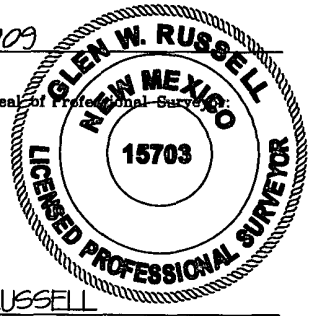
Crystal Tafoya 9-1-09
Printed Name

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.

JULY 7, 2009
Date of Survey

Signature and Seal of Professional Surveyor:



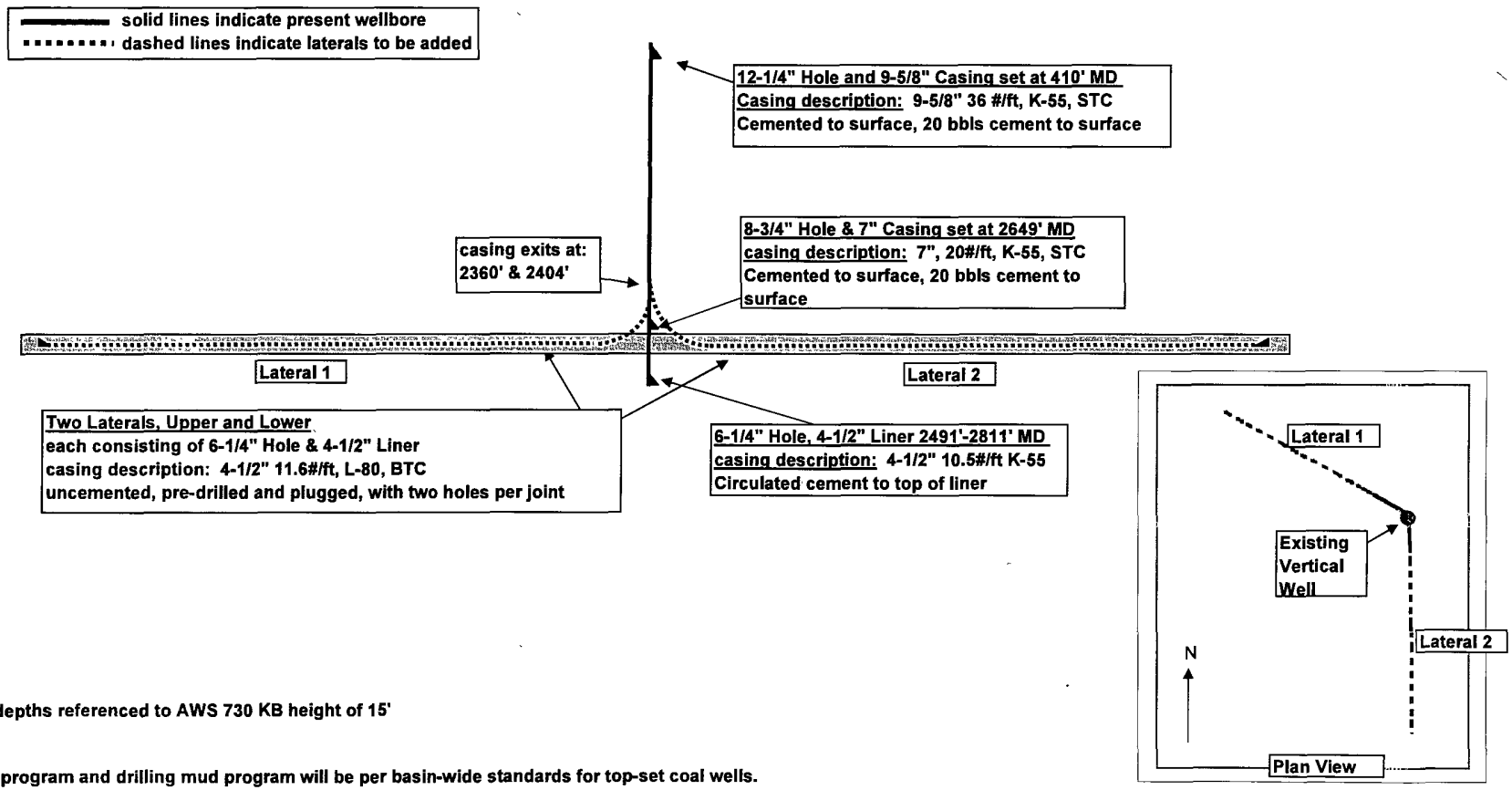
GLEN W. RUSSELL
Certificate Number 15703

Allison Unit HZ 100 Lateral

GL 6132'
KB 6147' (Aztec 730)

Directional Plan Allison #100 Lateral #1 (Plan No. 2) accompanies this document
Directional Plan Allison #100 Lateral #2 (Plan No. 2) accompanies this document

	State of New Mexico, San Juan County	MD ft	TVD ft	
Surface location:	T32N, R06W, Section 16, 1775' FSL, 1550' FWL	NA	NA	
Lateral 1, beginning of prod. interval	T32N, R06W, Section 16, 1913' FSL, 1296' FWL	2857'	2691'	landed at 90° in the coal target
Lateral 1, end of prod. Interval	T32N, R06W, Section 16, 2590' FSL, 60' FWL	4260'	2690'	lateral 1 total depth & 4-1/2" casing depth
Lateral 2, beginning of prod. interval	T32N, R06W, Section 16, 1504' FSL, 1740' FEL	2882'	2694'	landed at 90° in the coal target
Lateral 2, end of prod interval	T32N, R06W, Section 16, 60' FSL, 1970' FWL	4362'	2712'	lateral 2 total depth & 4-1/2" casing depth



* all depths referenced to AWS 730 KB height of 15'

BOP program and drilling mud program will be per basin-wide standards for top-set coal wells.

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ALLISON UNIT HZ 100 LATERAL **DEVELOPMENT**

Lease:		AFE #: WAN.CDR.8261			AFE $: 3,100,000.00
Field Name: SAN JUAN	Rig: Aztec Rig 730		State: NM	County: SAN JUAN	API #:
Geologist:	Phone:	Geophysicist:			Phone:
Geoscientist:	Phone:	Prod. Engineer:			Phone:
Res. Engineer:	Phone:	Proj. Field Lead:			Phone:

Primary Objective (Zones):

Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location: Surface	Datum Code: NAD 27				**Horizontal**
Latitude: 36.977925	Longitude: -107.466818	X:	Y:	Section: 16	Range: 006W
Footage X: 1550 FWL	Footage Y: 1775 FSL	Elevation: 6132 (FT)		Township: 032N	
Tolerance:					

Location: Bottom Hole	Datum Code: NAD 27				**Horizontal**
Latitude: 36.980137	Longitude: -107.471914	X:	Y:	Section: 16	Range: 006W
Footage X: 60 FWL	Footage Y: 2590 FSL	Elevation: (FT)		Township: 032N	
Tolerance:					

Location: Bottom Hole	Datum Code: NAD 27				**Horizontal**
Latitude: 36.973232	Longitude: -107.465393	X:	Y:	Section: 16	Range: 006W
Footage X: 1970 FWL	Footage Y: 60 FSL	Elevation: (FT)		Township: 032N	
Tolerance:					

Location Type: Restricted Start Date (Est.): 1/1/2011 Completion Date: Date In Operation:

Formation Data: Assume KB = 6147 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Total Depth	0	6147	☐			
NACIMIENTO	515	5632	☐			
OJO ALAMO	1931	4216	☐			
KIRTLAND	2032	4115	☐			
FRUITLAND	2471	3676	☐			
T/BLUE MESA @ SHL	2675	3472	☐			
PATH 100' F/SHL LATERAL 1	2688	3459	☐			
PATH 500' F/SHL LATERAL 1	2689	3458	☐			
PATH BH LATERAL 1	2690	3457	☐			
PATH 1500' F/SHL LATERAL 1	2691	3456	☐			
PATH 1000' F/SHL LATERAL 1	2691	3456	☐			
PATH 100' F/SHL LATERAL 2	2693	3454	☐			
PATH 500' F/SHL LATERAL 2	2696	3451	☐			
PATH 1000' F/SHL LATERAL 2	2701	3446	☐			
B/BLUE MESA @ SHL	2701	3446	☐			
PATH 1500' F/SHL LATERAL 2	2708	3439	☐			
PATH BH LATERAL 2	2711	3436	☐			

Reference Wells:

Reference Type	Well Name	Comments

Printed on: 1/28/2010 10:56:19 AM

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ALLISON UNIT HZ 100 LATERAL **DEVELOPMENT**

Production	Allison Unit 100	32N-6W16 SW NE SW
Production	Allison Unit 6R	32N 6W 16 SW NE SW
Production	Allison Unit 38B	32N 6W 17 SE
Production	Allison Unit 100S	32N 6W 16 NE SW NW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☑ Other

MWD - Gamma Ray from start of open hole section to TD
Mudlog from kick off point to TD

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments: General/Work Description - Offset in section 16 shows 1 ppm H2S, no H2S contingency plan needed at this time, Dalessandro 1-13-10

10/6/09-Must be CVlosed Loop per BOR wfp
4/30/09-This project will have 2 different BH locations (2 DIFFERENT C-102 - L1 AND L2) wfp
New BHL per Hal Mead on 2-9-09 is 2620' FSL & 680' FWL due to offset well and spacing restirctions. eap 2-9-09
Lateral re-entry
5/5/08-this project will replace the remedial wfp
5/5/08: Land is assuming the Lateral Re-entry bottom hole will not extend outside of SW/4. CEC
5/12/08: Land learned the initial Bottom hole location is in Unit Spot C which appears to be a density violation with the Allison Unit 100S Well located in the NW/4. This needs to be cleared up with Regulatory. CEC
6/17/08: API# 3004526905 CEC

Printed on: 1/28/2010 10:56:19 AM

Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SAN JUAN BASIN
SEC 16-T32N-R6W
Allison #100

Lateral #1

Plan: Plan #2

Standard Planning Report

13 January, 2010

ConocoPhillips

Scientific Drilling
Directional Drilling Operations

Project: SAN JUAN BASIN
Site: SEC 16-T32N-R6W
Well: Allison #100
Wellbore: Lateral #1
Design: Plan #2

ConocoPhillips

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Allison #100, True North
Vertical (TVD) Reference: DFE @ 6147 0ft (AWS 730)
Section (VS) Reference: Slot - (0 0N, 0 0E)
Measured Depth Reference: DFE @ 6147 0ft (AWS 730)
Calculation Method: Minimum Curvature

PROJECT DETAILS

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

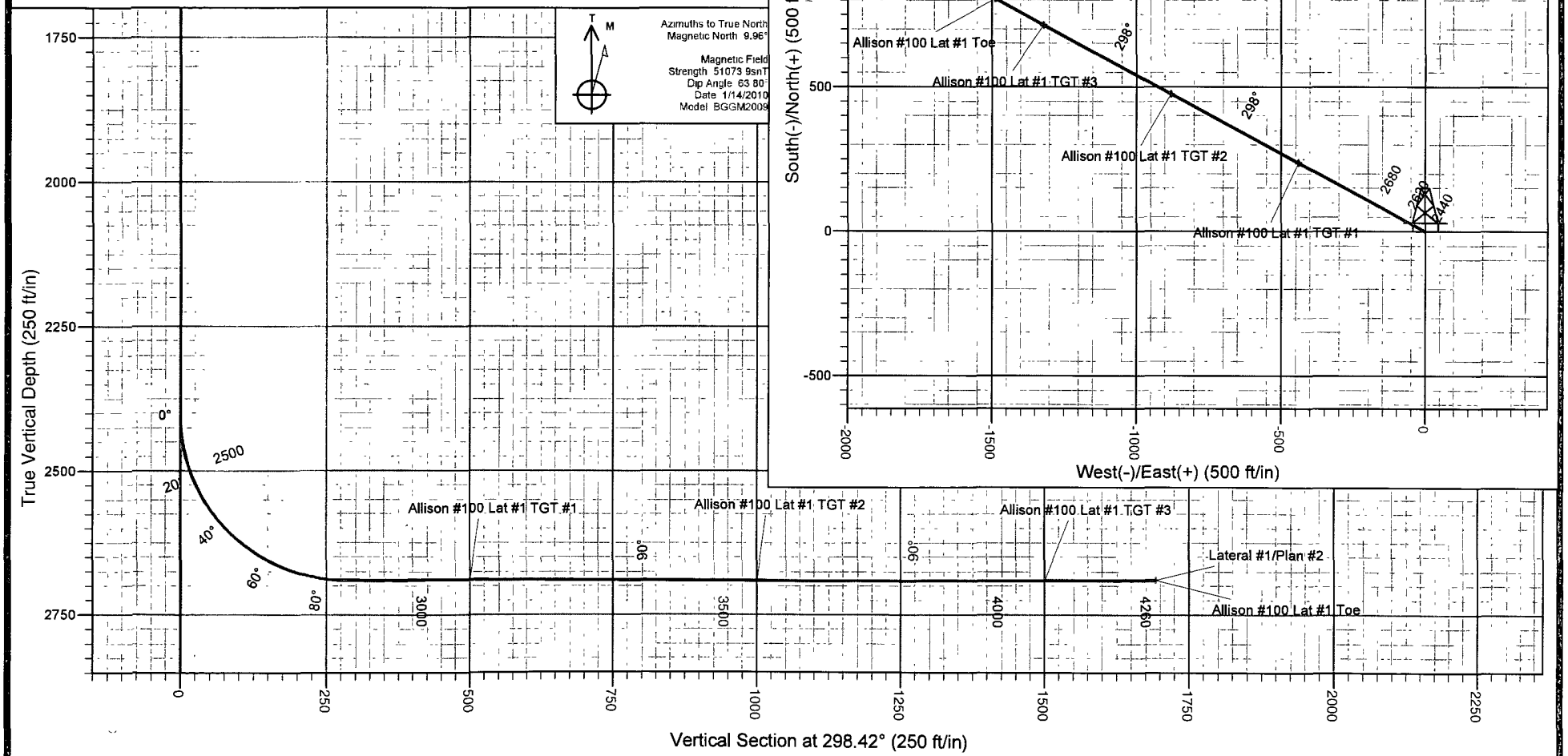
WELL DETAILS: Allison #100

Ground Level: 3162.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2175439.03	607059.10	36° 58' 40.530 N	107° 28' 0.546 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2404.4	0.00	0.00	2404 4	0.0	0 0	0.00	0.00	0 0	
2	2856.9	90 50	298 42	2690.9	137.5	-254 2	20.00	298.42	289.0	
3	2943.8	90 51	298 41	2690.1	178.9	-330 5	0.02	-50.02	375 8	
4	3067 9	90.51	298 41	2689.0	237 9	-439.8	0.00	0 00	500.0	Allison #100 Lat #1 TGT #1
5	3074 9	89.77	298 42	2689.0	241 3	-445.9	10.64	179 43	507.0	
6	3567.9	89.77	298.42	2691.0	475 9	-879.5	0 00	0 00	1000 0	Allison #100 Lat #1 TGT #2
7	3570 3	90.00	298 42	2691 0	477.0	-881.6	10.13	-0.01	1002.3	
8	4067.9	90.00	298 42	2691 0	713.8	-1319.3	0.00	0.00	1500.0	Allison #100 Lat #1 TGT #3
9	4069.1	90 30	298.42	2691 0	714.4	-1320.3	25.51	0 00	1501.2	
10	4260 2	90.30	298 42	2690 0	805.3	-1488.3	0.00	0.00	1692.2	Allison #100 Lat #1 Toe



Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147.0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #1		
Design:	Plan #2		

Project SAN JUAN BASIN, NEW MEXICO

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site SEC 16-T32N-R6W

Site Position:		**Northing:**	2,174,663.78 ft	**Latitude:**	36° 58' 32.856 N
From:	Lat/Long	**Easting:**	607,273.87 ft	**Longitude:**	107° 27' 57.936 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.22 °

Well Allison #100, Re-entry CBM HZ

Well Position	**+N/-S**	776.1 ft	**Northing:**	2,175,439.03 ft	**Latitude:**	36° 58' 40.530 N
	+E/-W	-211.8 ft	**Easting:**	607,059.10 ft	**Longitude:**	107° 28' 0.546 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,162.0 ft

Wellbore Lateral #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	1/14/2010	9.96	63.80	51,074

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	2,404.4

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	298.42

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
2,404.4	0.00	0.00	2,404.4	0.0	0.0	0.00	0.00	0.00	0.00	
2,856.9	90.50	298.42	2,690.9	137.5	-254.2	20.00	20.00	0.00	298.42	
2,943.8	90.51	298.41	2,690.1	178.9	-330.5	0.02	0.01	-0.01	-50.02	
3,067.9	90.51	298.41	2,689.0	237.9	-439.8	0.00	0.00	0.00	0.00	Allison #100 Lat #1
3,074.9	89.77	298.42	2,689.0	241.3	-445.9	10.64	-10.64	0.11	179.43	
3,567.9	89.77	298.42	2,691.0	475.9	-879.5	0.00	0.00	0 00	0.00	Allison #100 Lat #1
3,570.3	90.00	298.42	2,691.0	477.0	-881.6	10.13	10.13	0.00	-0.01	
4.067.9	90.00	298.42	2,691.0	713 8	-1,319.3	0.00	0.00	0 00	0.00	Allison #100 Lat #1
4.069 1	90.30	298.42	2.691 0	714.4	-1,320.3	25 51	25.51	0.00	0.00	
4,260.2	90.30	298.42	2,690.0	805.3	-1,488 3	0.00	0.00	0.00	0 00	Allison #100 Lat #1

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147 0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #1		
Design:	Plan #2		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
2,404.4	0.00	0.00	2,404.4	0.0	0.0	0.0	0.00	0.00	0.00
2,425 0	4.12	298.42	2,425.0	0.4	-0.7	0.7	20.00	20.00	0.00
2,450.0	9.12	298 42	2,449.8	1.7	-3.2	3.6	20.00	20.00	0.00
2,475.0	14.12	298 42	2,474.3	4.1	-7.6	8.7	20.00	20.00	0.00
2,500.0	19.12	298.42	2,498.2	7.5	-13.9	15.8	20.00	20.00	0.00
2,525.0	24.12	298.42	2,521.5	11.9	-22.0	25.0	20.00	20.00	0.00
2,550 0	29.12	298.42	2,543.8	17.2	-31.8	36.2	20.00	20.00	0.00
2,575.0	34.12	298.42	2,565.1	23.5	-43.4	49.3	20.00	20.00	0 00
2,600.0	39.12	298.42	2,585.2	30.6	-56.5	64.2	20.00	20.00	0.00
2,625.0	44.12	298.42	2,603.8	38.5	-71.1	80.8	20.00	20.00	0.00
2,650.0	49.12	298.42	2,621.0	47.1	-87.1	99.0	20.00	20.00	0.00
2,675.0	54.12	298.42	2,636.5	56.4	-104.3	118.6	20.00	20.00	0.00
2,700.0	59.12	298.42	2,650.3	66.4	-122.6	139.4	20.00	20.00	0.00
2,725.0	64.12	298.42	2,662.1	76.8	-142.0	161.4	20.00	20.00	0.00
2,750.0	69.12	298.42	2,672.1	87.7	-162.2	184.4	20.00	20.00	0.00
2,775.0	74.12	298.42	2,679.9	99.0	-183.0	208.1	20.00	20.00	0.00
2,800.0	79.12	298.42	2,685.7	110.6	-204.4	232.4	20.00	20.00	0.00
2,825.0	84 12	298.42	2,689.4	122.4	-226.1	257.1	20.00	20.00	0.00
2,850.0	89.12	298.42	2,690.8	134.3	-248.1	282.1	20.00	20.00	0.00
2,856.9	90.50	298.42	2,690.9	137.5	-254.2	289.0	20.00	20.00	0.00
2,900.0	90.50	298.41	2,690.5	158.0	-292.1	332.1	0.02	0.01	-0.01
2,943.8	90.51	298.41	2,690.1	178.9	-330.5	375.8	0.02	0.01	-0.01
3,000.0	90.51	298.41	2,689.6	205.6	-380.0	432.1	0.00	0.00	0.00
3,067.9	90.51	298.41	2,689.0	237.9	-439.8	500.0	0.00	0.00	0.00
3,074.9	89.77	298.42	2,689.0	241.3	-445.9	507.0	10.64	-10.64	0.11
3,100.0	89.77	298.42	2,689.1	253.2	-468.0	532.1	0.00	0.00	0.00
3,200.0	89.77	298.42	2,689.5	300.8	-555.9	632.1	0.00	0.00	0.00
3,300.0	89.77	298.42	2,689.9	348.4	-643.9	732.1	0.00	0.00	0.00
3,400.0	89.77	298.42	2,690.3	396.0	-731.8	832.1	0.00	0.00	0.00
3,500.0	89.77	298.42	2,690.7	443.5	-819.8	932.1	0.00	0.00	0.00
3,567.9	89.77	298.42	2,691.0	475.9	-879.5	1,000.0	0.00	0.00	0.00
3,570.3	90.00	298.42	2,691.0	477 0	-881.6	1,002.3	10.13	10.13	0.00
3,600.0	90.00	298.42	2,691.0	491.1	-907.7	1,032.1	0.00	0.00	0.00
3,700.0	90.00	298.42	2,691 0	538.7	-995.7	1,132.1	0.00	0.00	0.00
3,800.0	90.00	298.42	2,691.0	586.3	-1,083.6	1,232.1	0.00	0.00	0.00
3,900.0	90.00	298.42	2,691.0	633.9	-1,171.6	1,332.1	0.00	0.00	0.00
4,000.0	90.00	298.42	2,691.0	681.5	-1,259.5	1,432.1	0.00	0.00	0.00
4,067.9	90.00	298.42	2,691.0	713.8	-1,319.3	1,500.0	0.00	0.00	0.00
4,069.1	90.30	298.42	2,691.0	714.4	-1,320.3	1,501.2	25.51	25.51	0.00
4,100.0	90.30	298.42	2,690.8	729.1	-1,347.5	1,532.1	0.00	0.00	0.00
4,200.0	90.30	298.42	2,690.3	776.7	-1,435.4	1,632.1	0.00	0.00	0.00
4,260.2	90.30	298.42	2,690 0	805.3	-1,488.3	1,692.2	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147.0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #1		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Allison #100 Lat #1 T(- plan hits target center - Point	0.00	0.00	2,689.0	237.9	-439.8	2,175,675.25	606,618.46	36° 58' 42.883 N	107° 28' 5.965 W
Allison #100 Lat #1 T(- plan hits target center - Point	0.00	0.00	2,690.0	805.3	-1,488.3	2,176,238.52	605,567.79	36° 58' 48.492 N	107° 28' 18.888 W
Allison #100 Lat #1 T(- plan hits target center - Point	0.00	0.00	2,691.0	713.8	-1,319.3	2,176,147.70	605,737.19	36° 58' 47.588 N	107° 28' 16.804 W
Allison #100 Lat #1 T(- plan hits target center - Point	0.00	0.00	2,691.0	475.9	-879.5	2,175,911.48	606,177.83	36° 58' 45.235 N	107° 28' 11.385 W

Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SAN JUAN BASIN
SEC 16-T32N-R6W
Allison #100

Lateral #2

Plan: Plan #2

Standard Planning Report

13 January, 2010

ConocoPhillips

Scientific Drilling
Directional Drilling Operations

Project: SAN JUAN BASIN
Site: SEC 16-T32N-R6W
Well. Allison #100
Wellbore: Lateral #2
Design: Plan #2

ConocoPhillips

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Allison #100, True North
Vertical (TVD) Reference: DFE @ 6147 0ft (AWS 730)
Section (VS) Reference: Slot - (0 0N, 0 0E)
Measured Depth Reference: DFE @ 6147 0ft (AWS 730)
Calculation Method: Minimum Curvature

PROJECT DETAILS

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

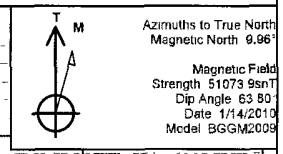
WELL DETAILS: Allison #100

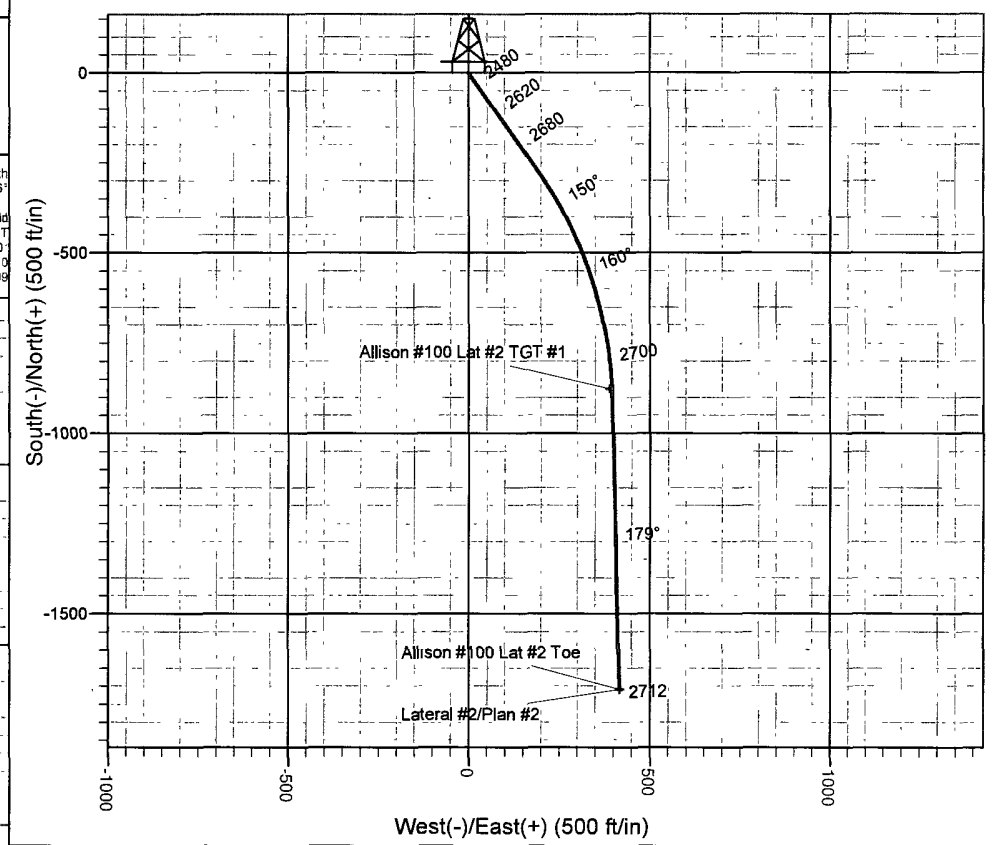
Ground Level: 3162.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	2175439.03	607059.10	36° 58' 40.530 N	107° 28' 0.546 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	2360.0	0.00	0 00	2360 0	0.0	0.0	0.00	0.00	0.0	
2	2881 9	89.50	145 00	2694 1	-271.3	190.0	17.15	145.00	308 5	
3	3554.2	89.26	178 62	2701.6	-900 9	396 8	5.00	90.58	969 2	
4	4362.4	89 26	178 62	2712 0	-1708 8	416.3	0 00	0.00	1758 8	Allison #100 Lat #2 Toe





Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147.0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Project SAN JUAN BASIN, NEW MEXICO

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		Using Well Reference Point
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site SEC 16-T32N-R6W

Site Position:		**Northing:**	2,174,663.78 ft	**Latitude:**	36° 58' 32.856 N
From:	Lat/Long	**Easting:**	607,273.87 ft	**Longitude:**	107° 27' 57.936 W
Position Uncertainty:	0.0 ft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	0.22 °

Well Allison #100, Re-entry CBM HZ

Well Position	**+N/-S**	776.1 ft	**Northing:**	2,175,439.03 ft	**Latitude:**	36° 58' 40.530 N
	+E/-W	-211.8 ft	**Easting:**	607,059.10 ft	**Longitude:**	107° 28' 0.546 W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,162.0 ft

Wellbore Lateral #2

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2009	1/14/2010	9 96	63.80	51,074

Design Plan #2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	2,360.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	166.31

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
2,360.0	0.00	0.00	2,360.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,881.9	89.50	145.00	2,694.1	-271.3	190.0	17.15	17.15	0.00	145.00	
3,554.2	89.26	178.62	2,701.6	-900.9	396.8	5.00	-0.04	5.00	90.58	
4,362.4	89.26	178.62	2,712.0	-1,708.8	416.3	0.00	0.00	0.00	0.00	Allison #100 Lat #2

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147.0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0 00
2,360.0	0.00	0.00	2,360.0	0 0	0.0	0.0	0.00	0.00	0.00
2,375.0	2.57	145.00	2,375.0	-0.3	0.2	0.3	17.15	17.15	0.00
2,400.0	6.86	145.00	2,399.9	-2.0	1.4	2.2	17.15	17.15	0.00
2,425.0	11.15	145.00	2,424.6	-5.2	3.6	5.9	17.15	17.15	0.00
2,450.0	15.43	145.00	2,448.9	-9.9	6.9	11.2	17.15	17.15	0.00
2,475.0	19.72	145.00	2,472.7	-16.1	11.2	18.3	17.15	17.15	0.00
2,500.0	24.01	145.00	2,495.9	-23.7	16.6	26.9	17.15	17.15	0.00
2,525.0	28.30	145.00	2,518.4	-32.7	22.9	37.2	17.15	17.15	0.00
2,550.0	32.58	145.00	2,539.9	-43.1	30.2	49.0	17.15	17.15	0.00
2,575.0	36.87	145.00	2,560.5	-54.7	38.3	62.3	17.15	17.15	0.00
2,600.0	41 16	145.00	2,579.9	-67.6	47.4	76.9	17.15	17.15	0.00
2,625.0	45.45	145.00	2,598.1	-81.7	57.2	92.9	17.15	17.15	0.00
2,650.0	49.73	145.00	2,614.9	-96.8	67.8	110.1	17.15	17.15	0.00
2,675.0	54.02	145.00	2,630.4	-112.9	79.1	128.4	17.15	17.15	0.00
2,700.0	58.31	145.00	2,644.3	-129.9	91.0	147.7	17.15	17.15	0.00
2,725.0	62.60	145.00	2,656.6	-147.7	103.4	168.0	17.15	17.15	0.00
2,750.0	66.88	145.00	2,667.3	-166.2	116.4	189.1	17.15	17.15	0.00
2,775.0	71.17	145.00	2,676.2	-185.3	129.8	210.8	17.15	17.15	0.00
2,800.0	75.46	145.00	2,683.4	-205.0	143.5	233.1	17.15	17 15	0.00
2,825.0	79.75	145.00	2,688.8	-225.0	157.5	255.8	17.15	17.15	0.00
2,850.0	84.03	145.00	2,692.3	-245.2	171.7	278.9	17.15	17.15	0.00
2,875.0	88 32	145.00	2,693.9	-265.7	186.0	302.1	17.15	17.15	0.00
2,881.9	89.50	145.00	2,694.1	-271.3	190.0	308.5	17.15	17.15	0.00
2,900.0	89.49	145.91	2,694.2	-286.2	200.2	325.5	5.00	-0.05	5.00
3,000.0	89.44	150.91	2,695.2	-371.4	252.6	420.6	5.00	-0.05	5.00
3,100.0	89.40	155.91	2,696.2	-460.8	297.4	518.0	5.00	-0.04	5.00
3,200.0	89.36	160.91	2,697.3	-553.7	334.1	617.1	5.00	-0.04	5.00
3,300.0	89.32	165.91	2,698.4	-649.5	362.7	716.9	5.00	-0.03	5.00
3,400.0	89.30	170.91	2,699.6	-747.4	382.8	816.8	5.00	-0.03	5.00
3,500.0	89.27	175.91	2,700.9	-846.7	394.3	916.0	5.00	-0.02	5.00
3,554.2	89.26	178.62	2,701.6	-900.9	396.8	969.2	5.00	-0.02	5.00
3,600.0	89.26	178.62	2,702.2	-946.6	397.9	1,013.9	0.00	0.00	0.00
3,700.0	89.26	178.62	2,703.4	-1,046.6	400.4	1,111.6	0.00	0.00	0.00
3,800.0	89.26	178.62	2,704.7	-1,146.6	402.8	1,209.3	0.00	0.00	0.00
3,900.0	89.26	178.62	2,706.0	-1,246.5	405.2	1,307.0	0 00	0.00	0.00
4,000.0	89.26	178.62	2,707.3	-1,346.5	407.6	1,404 7	0.00	0.00	0.00
4,100.0	89.26	178.62	2,708.6	-1,446.4	410.0	1,502.4	0.00	0.00	0.00
4,200.0	89.26	178.62	2,709.9	-1,546.4	412.4	1,600.1	0.00	0.00	0.00
4,300.0	89.26	178.62	2,711.2	-1,646.4	414.8	1,697.8	0.00	0.00	0.00
4,362.4	89.26	178.62	2,712.0	-1,708.8	416.3	1,758.8	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	**Local Co-ordinate Reference:**	Well Allison #100
Company:	ConocoPhillips	**TVD Reference:**	DFE @ 6147.0ft (AWS 730)
Project:	SAN JUAN BASIN	**MD Reference:**	DFE @ 6147.0ft (AWS 730)
Site:	SEC 16-T32N-R6W	**North Reference:**	True
Well:	Allison #100	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Lateral #2		
Design:	Plan #2		

Design Targets

Target Name - hit/miss target Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Allison #100 Lat #2 T(	0.00	0.00	2,701.0	-875.7	390.0	2,174,564.89	607,452.44	36° 58' 31.871 N	107° 27' 55 740 W
- plan misses target center by 6.0ft at 3528.8ft MD (2701.2 TVD, -875.4 N, 395.9 E)									
- Point									
Allison #100 Lat #2 T(	0.00	0.00	2,712.0	-1,708.8	416.3	2,173,731.97	607,481.94	36° 58' 23.634 N	107° 27' 55.416 W
- plan hits target center									
- Point									