

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103

Jun 19, 2008

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

WELL API NO. 30-045-29919
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. V-88-1
7. Lease Name or Unit Agreement Name Susco 16 State
8. Well Number 101H
9. OGRID Number 14538
10. Pool name or Wildcat Basin Fruitland Coal

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.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Burlington Resources Oil Gas Company LP	
3. Address of Operator P.O. Box 4289, Farmington, NM 87499-4289	
4. Well Location Unit Letter G : 1655 feet from the North line and 1618 feet from the East line Section 16 Township 32N Range 8W NMPM San Juan County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6985' GR	

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☒ APD LATERAL

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

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 wishes to add a lateral to the original wellbore in the upper Fruitland Coal. Burlington is also renaming the well to the Susco 16 State 101H since this is now the nomenclature for horizontal wells.

Please see attached C102 plat, Project Proposal and Directional Drill Plan.

Hold C104
for Directional Survey
and "As Drilled" plat

Spud Date:

Rig Released Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Dollie L. Busse TITLE Staff Regulatory Technician DATE 3/21/11

Type or print name Dollie L. Busse E-mail address: dollie.l.busse@conocophillips.com PHONE: 505-324-6104

For State Use Only

APPROVED BY: Charles TITLE SUPERVISOR DISTRICT #3 DATE JUN 05 2011

Conditions of Approval (if any):



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

DISTRICT II
1301 W. 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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

Form C-102
Revised October 15, 2009

Submit one copy to appropriate
District Office

☒ AMENDED REPORT
LATERAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 29919	² Pool Code 71629	³ Pool Name FRUITLAND COAL
⁴ Property Code 7575	⁵ Property Name SUSCO 16 STATE	⁶ Well Number 101H
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6985

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
G	16	32 N	8 W		1655	NORTH	1618	EAST	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
A	16	32 N	8 W		710	NORTH	710	EAST	SAN JUAN

¹² Dedicated Acres 320 (E/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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

16 N 89°04'57" W 2636.63' N 0°28'06" W 2631.85' N 0°26'09" W N 88°49'05" W	2596.86' 2590.55' 2590.32'	N 89°03'38" W 1655' N 88°49'39" W	17 OPERATOR CERTIFICATION <i>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.</i> Brandie Blakley 6-10-10 Signature Date Brandie Blakley 6-10-10 Printed Name	
	BOTTOM HOLE LOCATION LAT: 36.9891567° N LONG: 107.6740111° W NAD 83 LAT: 36°59.34920' N LONG: 107°40.40381' W NAD 27	SURFACE LOCATION LAT: 36.9866050° N LONG: 107.6770810° W NAD 83 LAT: 36°59.19610' N LONG: 107°40.58800' W NAD 27 SECTION 16	STATE OF NEW MEXICO V-88-1	18 SURVEYOR CERTIFICATION <i>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.</i> 4/26/10 Date of Survey Signature and Seal of Professional Surveyor 17078 Certificate Number
	NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.			MARSHALL W. LINDEN NEW MEXICO 17078 PROFESSIONAL SURVEYOR

Hold C104

for Directional Survey
and "As Drilled" plat

PL

Susco 16 State 1H Lateral Re-Entry - Well Summary

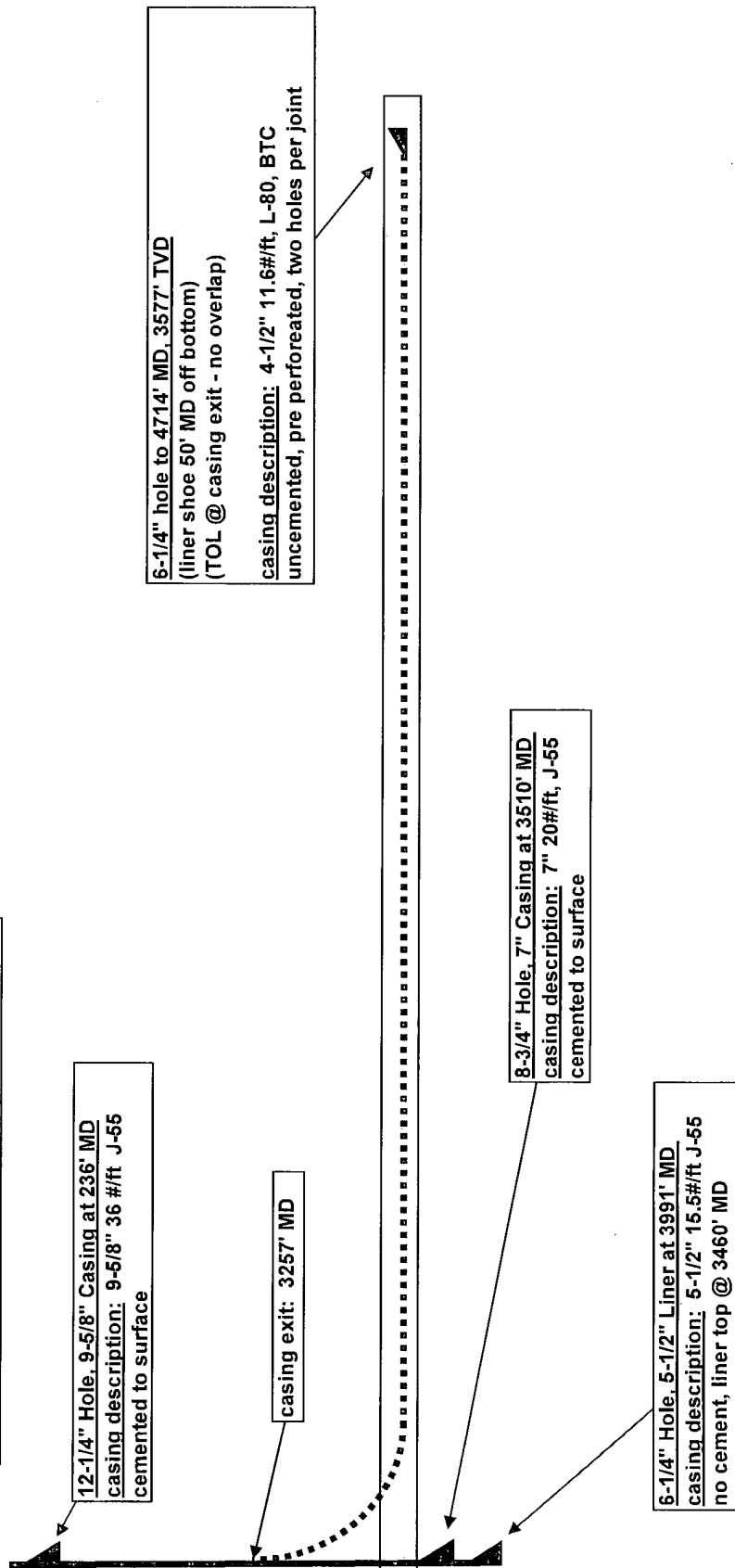
Note: Lateral Directional Plan (Plan # 2) accompanies this document

GL 6985'
KB 7000' (Aztec 730)

surface location:	State of New Mexico, San Juan County	MD	TVD
beginning of producing interval, lateral	T32N, R08W, Section 16, 1655' FNL, 1618' FEL	NA	NA
bottom of productive interval, lateral	T32N, R08W, Section 16, 1378' FNL, 1351' FEL	3807'	3565'
	T32N, R08W, Section 16, 710' FNL, 710' FEL	4714'	3577'

entry point in the coal target
lateral total depth

solid lines indicate present wellbore
dashed lines indicate lateral to be added



-Note: Same mud will be used per APD Master Plan, except in certain situations salt may be used for weight, salt will be contained in steel pits on surface and properly disposed of

-Note: Same BOP stack will be used per APD Master Plan

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SUSCO 16 STATE 101H

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9025		AFE \$: 561,510.00	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
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: 36.986602	Longitude: -107.676467	X:	Y:	Section: 16	Range: 008W
Footage X: 1618 FEL	Footage Y: 1655 FNL	Elevation: 6985	(FT)	Township: 032N	

Tolerance:

Location: Bottom Hole

Datum Code: NAD 27

Horizontal

Latitude: 36.989153	Longitude: -107.673397	X:	Y:	Section: 16	Range: 008W
Footage X: 710 FEL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 032N	

Tolerance:

Location Type: Restricted Start Date (Est.): 1/1/2012 Completion Date: Date In Operation:

Formation Data: Assume KB = 7000 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Total Depth	0	7000		☐			
OJO ALAMO	2690	4310		☐			
KIRTLAND	2740	4260		☐			
EXIT MAIN BORE LATERAL	3257	3743		☐			3257' MD: Casing exit cut out of existing 7" intermediate casing
FRUITLAND	3530	3470		☐	850		
PATH 1000' F/SHL LATERAL	3575	3425		☐			4423' MD: Lateral path 1000' from surface hole location in the direction the to be drilled lateral
PATH 500' F/SHL LATERAL	3575	3425		☐			3923' MD: Lateral path 500' from surface hole location in the direction the to be drilled lateral
PATH AT BH LATERAL	3577	3423		☐			4714' MD: TD, Lined with 4-1/2", 11.6 ppf, L-80, BTC casing with 2 pre drilled holes per foot, uncemented, liner tied back to existing 7" intermedaite casing @ casing exit

Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 32-8 Unit 258A	32N 8W 9 SE SE SE
Production	Susco 16 State 1E	32N 8W 16 SW NE NW
Production	Susco 16 State 101	32N 8W 16 NE SW NE
Production	SJ 32-8 Unit 264A	32N 8W 9 NW SE SE

Logging Program:

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

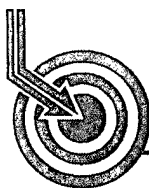
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

PROJECT PROPOSAL - New Drill / Sidetrack**SUSCO 16 STATE 101H****DEVELOPMENT**

MWD - Gamma Ray from casing exit to TD
Mudlog from casing exit off point to TD

Additional Information:

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



Scientific Drilling
Directional Drilling Operations

ConocoPhillips

SJB (NM West)

SEC 16-T32N-R8W

Susco 16 State 101 H

Lateral

Plan: Plan #2

Standard Planning Report

14 January, 2011



ConocoPhillips



Site: SEC 16-T32N-R8W
Well: Susco 16 State 101 H
Wellbore: Lateral
Design: Plan #2



REFERENCE INFORMATION

Co-ordinate (NE) Reference: Well Susco 16 State 101 H, True North
Vertical (TVD) Reference: AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Calculation Method: Minimum Curvature

PROJECT DETAILS

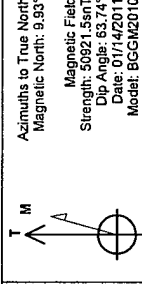
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

WELL DETAILS: Susco 16 State 101 H

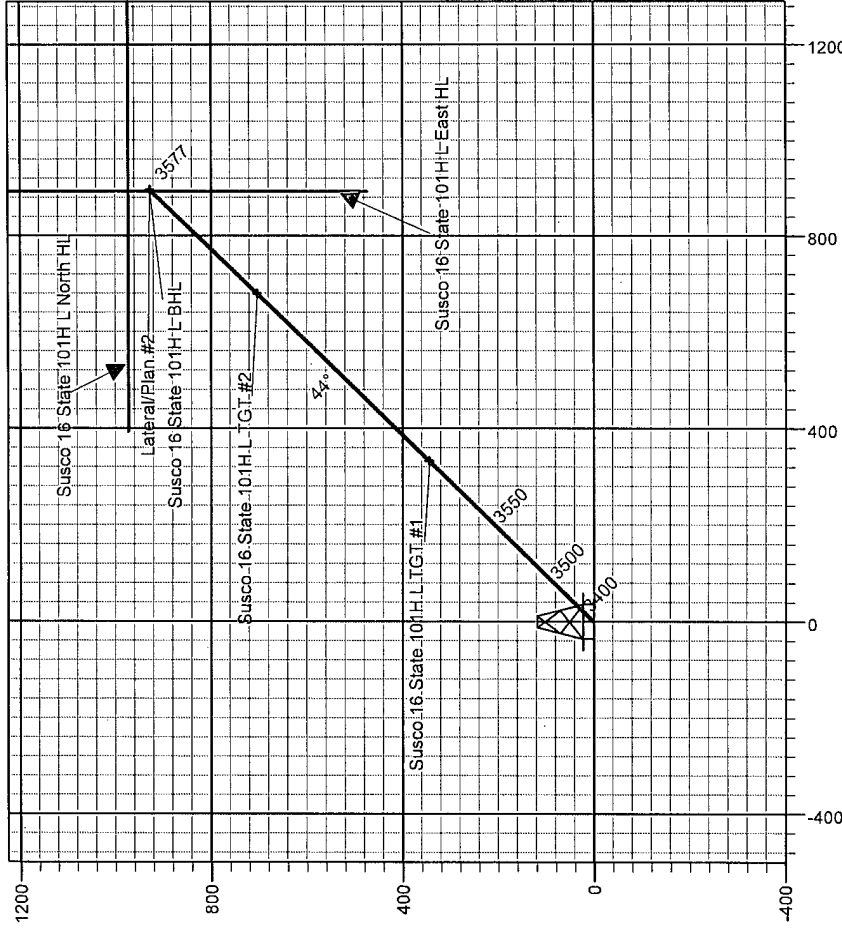
+N/-S	+E/-W	Northing	Ground Level:	Latitude	Longitude
0.0	0.0	2178429.61	545815.61	36° 59' 11.766 N	107° 40' 35.279 W

SECTION DETAILS

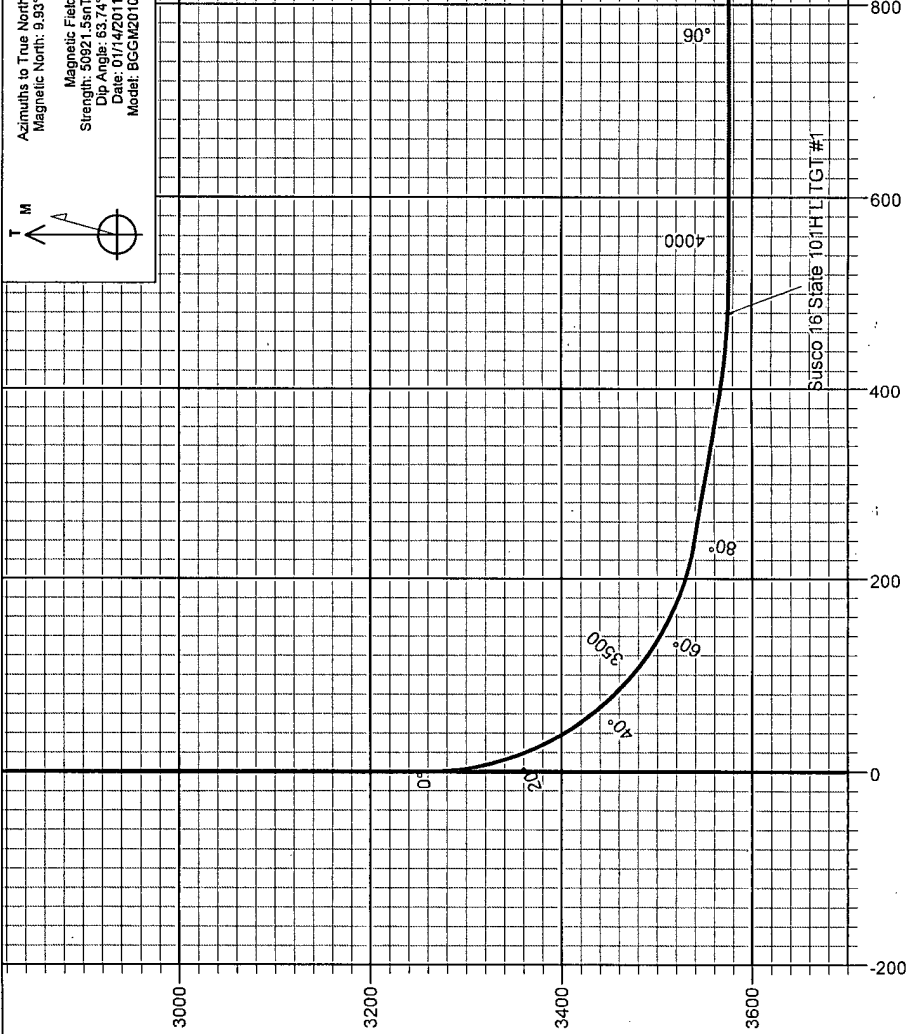
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	3256.5	0.00	0.00	3256.5	0.0	0.0	0.00	0.00	0.0	
2	3656.5	80.00	43.98	3538.6	170.3	164.4	20.00	43.98	236.7	
3	3806.5	80.00	43.98	3564.7	276.6	267.0	0.00	0.00	384.5	
4	3931.6	90.01	43.98	3575.6	366.2	353.4	8.00	0.00	508.9	
5	3980.3	90.01	43.98	3575.5	401.3	387.2	0.01	180.00	557.6	Susco 16 State 101H L TGT #2
6	4402.0	90.01	43.98	3575.5	704.7	680.1	0.00	0.00	979.3	
7	4411.7	89.81	43.98	3575.5	711.7	686.8	2.00	-179.66	989.0	
8	4713.8	89.81	43.98	3576.5	929.1	896.5	0.00	0.00	1291.1	Susco 16 State 101H L BHL



South(-)/North(+) (400 ft/in)



True Vertical Depth (200 ft/in)



Vertical Section at 43.98° (200 ft/in)

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Susco 16 State 101 H
Company:	ConocoPhillips	TVD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Project:	SJB (NM West)	MD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Site:	SEC 16-T32N-R8W	North Reference:	True
Well:	Susco 16 State 101 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

Project	SJB (NM West), New Mexico, S-Type MV/DK Wells		
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-R8W		
Site Position:		Northing:	2,178,483.93 ft
From:	Lat/Long	Easting:	545,861.52 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 59' 12.302 N
		Longitude:	107° 40' 34.712 W
		Grid Convergence:	0.09 °

Well	Susco 16 State 101 H, FC HZ Re-Entry		
Well Position	+N/-S	-54.2 ft	Northing: 2,178,429.61 ft
	+E/-W	-46.0 ft	Easting: 545,815.61 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 59' 11.766 N
		Longitude:	107° 40' 35.279 W
		Ground Level:	6,985.0 ft

Wellbore	Lateral		
-----------------	---------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	01/14/11	9.93	63.74	50,922

Design	Plan #2		
---------------	---------	--	--

Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 3,256.5

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	43.98

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
3,256.5	0.00	0.00	3,256.5	0.0	0.0	0.00	0.00	0.00	0.00	
3,656.5	80.00	43.98	3,538.6	170.3	164.4	20.00	20.00	0.00	43.98	
3,806.5	80.00	43.98	3,564.7	276.6	267.0	0.00	0.00	0.00	0.00	
3,931.6	90.01	43.98	3,575.6	366.2	353.4	8.00	8.00	0.00	0.00	
3,980.3	90.01	43.98	3,575.5	401.3	387.2	0.01	-0.01	0.00	180.00	
4,402.0	90.01	43.98	3,575.5	704.7	680.1	0.00	0.00	0.00	0.00	Susco 16 State 101
4,411.7	89.81	43.98	3,575.5	711.7	686.8	2.00	-2.00	-0.01	-179.66	
4,713.8	89.81	43.98	3,576.5	929.1	896.5	0.00	0.00	0.00	0.00	Susco 16 State 101

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Susco 16 State 101 H
Company:	ConocoPhillips	TVD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Project:	SJB (NM West)	MD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Site:	SEC 16-T32N-R8W	North Reference:	True
Well:	Susco 16 State 101 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
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
3,256.5	0.00	0.00	3,256.5	0.0	0.0	0.0	0.00	0.00	0.00
3,275.0	3.70	43.98	3,275.0	0.4	0.4	0.6	20.00	20.00	0.00
3,300.0	8.70	43.98	3,299.8	2.4	2.3	3.3	20.00	20.00	0.00
3,325.0	13.70	43.98	3,324.3	5.9	5.7	8.2	20.00	20.00	0.00
3,350.0	18.70	43.98	3,348.3	10.9	10.5	15.1	20.00	20.00	0.00
3,375.0	23.70	43.98	3,371.6	17.4	16.8	24.2	20.00	20.00	0.00
3,400.0	28.70	43.98	3,394.1	25.3	24.4	35.2	20.00	20.00	0.00
3,425.0	33.70	43.98	3,415.5	34.6	33.4	48.1	20.00	20.00	0.00
3,450.0	38.70	43.98	3,435.6	45.3	43.7	62.9	20.00	20.00	0.00
3,475.0	43.70	43.98	3,454.4	57.1	55.1	79.4	20.00	20.00	0.00
3,500.0	48.70	43.98	3,471.7	70.1	67.6	97.4	20.00	20.00	0.00
3,525.0	53.70	43.98	3,487.4	84.1	81.2	116.9	20.00	20.00	0.00
3,550.0	58.70	43.98	3,501.3	99.0	95.6	137.6	20.00	20.00	0.00
3,575.0	63.70	43.98	3,513.3	114.8	110.8	159.5	20.00	20.00	0.00
3,600.0	68.70	43.98	3,523.4	131.3	126.7	182.4	20.00	20.00	0.00
3,625.0	73.70	43.98	3,531.5	148.3	143.1	206.1	20.00	20.00	0.00
3,650.0	78.70	43.98	3,537.4	165.8	160.0	230.3	20.00	20.00	0.00
3,656.5	80.00	43.98	3,538.6	170.3	164.4	236.7	20.00	20.00	0.00
3,700.0	80.00	43.98	3,546.2	201.2	194.1	279.6	0.00	0.00	0.00
3,806.5	80.00	43.98	3,564.7	276.6	267.0	384.5	0.00	0.00	0.00
3,850.0	83.48	43.98	3,570.9	307.6	296.9	427.5	8.00	8.00	0.00
3,900.0	87.48	43.98	3,574.9	343.5	331.5	477.3	8.00	8.00	0.00
3,902.4	87.67	43.98	3,575.0	345.2	333.1	479.7	8.00	8.00	0.00
Susco 16 State 101H L TGT #1									
3,931.6	90.01	43.98	3,575.6	366.2	353.4	508.9	8.00	8.00	0.00
3,980.3	90.01	43.98	3,575.5	401.3	387.2	557.6	0.01	-0.01	0.00
4,000.0	90.01	43.98	3,575.5	415.4	400.9	577.3	0.00	0.00	0.00
4,100.0	90.01	43.98	3,575.5	487.4	470.3	677.3	0.00	0.00	0.00
4,200.0	90.01	43.98	3,575.5	559.3	539.8	777.3	0.00	0.00	0.00
4,300.0	90.01	43.98	3,575.5	631.3	609.2	877.3	0.00	0.00	0.00
4,402.0	90.01	43.98	3,575.5	704.7	680.1	979.3	0.00	0.00	0.00
Susco 16 State 101H L TGT #2									
4,411.7	89.81	43.98	3,575.5	711.7	686.8	989.0	2.00	-2.00	-0.01
4,500.0	89.81	43.98	3,575.8	775.2	748.1	1,077.3	0.00	0.00	0.00
4,600.0	89.81	43.98	3,576.1	847.2	817.5	1,177.3	0.00	0.00	0.00
4,700.0	89.81	43.98	3,576.5	919.1	887.0	1,277.3	0.00	0.00	0.00
4,713.8	89.81	43.98	3,576.5	929.1	896.5	1,291.1	0.00	0.00	0.00
Susco 16 State 101H L North HL - Susco 16 State 101H L BHL - Susco 16 State 101H L East HL									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well Susco 16 State 101 H
Company:	ConocoPhillips	TVD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Project:	SJB (NM West)	MD Reference:	AWS 730 @ 7000.0ft (15' DF + 6985' GL)
Site:	SEC 16-T32N-R8W	North Reference:	True
Well:	Susco 16 State 101 H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
Susco 16 State 101H	0.00	0.00	3,575.5	704.7	680.1	2,179,135.38	546,494.45	36° 59' 18.734 N	107° 40' 26.897 W
- plan hits target center									
- Polygon									
Susco 16 State 101H	0.00	0.00	3,575.5	345.2	333.1	2,178,775.32	546,148.13	36° 59' 15.179 N	107° 40' 31.173 W
- plan misses target center by 0.5ft at 3902.4ft MD (3575.0 TVD, 345.2 N, 333.1 E)									
- Polygon									
Susco 16 State 101H	0.00	0.00	3,576.5	974.1	893.0	2,179,405.10	546,706.93	36° 59' 21.397 N	107° 40' 24.272 W
- plan misses target center by 45.2ft at 4713.8ft MD (3576.5 TVD, 929.1 N, 896.5 E)									
- Polygon									
Point 1			3,576.5	0.0	500.0	2,179,405.92	547,206.89		
Point 2			3,576.5	0.0	-500.0	2,179,404.27	546,206.97		
Susco 16 State 101H	0.00	0.00	3,576.5	929.1	896.5	2,179,360.06	546,710.54	36° 59' 20.952 N	107° 40' 24.229 W
- plan hits target center									
- Polygon									
Susco 16 State 101H	0.00	0.00	3,576.5	974.1	893.0	2,179,405.10	546,706.93	36° 59' 21.397 N	107° 40' 24.272 W
- plan misses target center by 45.2ft at 4713.8ft MD (3576.5 TVD, 929.1 N, 896.5 E)									
- Polygon									
Point 1			3,576.5	500.0	0.0	2,179,905.05	546,706.11		
Point 2			3,576.5	-500.0	0.0	2,178,905.14	546,707.75		