

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED

SEP 30 2008

Sundry Notices and Reports on Wells

1. Type of Well
GAS

2. Name of Operator
CONOCOPHILLIPS

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1780' 95'
Surf: Unit E (SWNW), ~~1820'~~ FNL & ~~65'~~ FWL, Section 27, T31N, R06W, NMPM
BH: Unit H (SENE), 2200' FNL & 760' FEL, Section 28, T31N, R06W, NMPM

Bureau of Land Management
Farmington Field Office

5. Lease Number
SF-078995

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name
San Juan 31-6 Unit

8. Well Name & Number
San Juan 31-6 Unit 39M

9. API Well No.

30-039-30364

10. Field and Pool
Basin DK/Blanco MV

11. County and State
Rio Arriba Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission

Type of Action

☒ Notice of Intent ☐ Abandonment ☐ Change of Plans
☐ Subsequent Report ☐ Recompletion ☐ New Construction
☐ Final Abandonment ☐ Plugging ☐ Non-Routine Fracturing
☐ Casing Repair ☐ Water Shut off
☐ Altering Casing ☐ Conversion to Injection

☒ Other -Intermediate Casing Depth, BH location

RCVD OCT 14 '08

OIL CONS. DIV.

DIST. 2

13. Describe Proposed or Completed Operations

ConocoPhillips wishes to change the depth of the intermediate casing depth **from the permitted 3592' to 5001'** due to the torque and drag on the production hole. Cement volumes will be adjusted accordingly.

Also ConocoPhillips would like to change the bottom hole location **from the permitted Unit H (SENE) 2200' FNL & 760' FEL TO Unit I (NESE) 2200' FSL & 760' FEL. The section, township, and Range will remain the same as originally permitted.** Please see attached directional drill plan, well proposal and updated plat. Verbal approval received from Jim Lovato at BLM and Steve Hayden at OCD on 09/30/08. ✓

Hold C104

for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct.

Signed Sasha Neumann Sasha Neumann Title Regulatory Technician Date 09/30/2008

(This space for Federal or State Office use)

APPROVED BY Troy L. Saliers Title Petroleum Engineer Date 10/7/2008

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

NMOCD

RCVD OCT 14 '08

OIL CONS. DIV.

DIST. 3

Form C-102

Revised October 12, 2005

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240State of New Mexico
Energy, Minerals & Natural Resources DepartmentDISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 CopiesDISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-34653	*Pool Code 71599/72319	*Pool Name BLANCO DAKOTA/MESAVERDE
*Property Code 31328	*Property Name SAN JUAN 31-6 UNIT	*Well Number 39M
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6328'

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
E	27	31-N	6-W		1780'	NORTH	95'	WEST	RIO ARRIBA

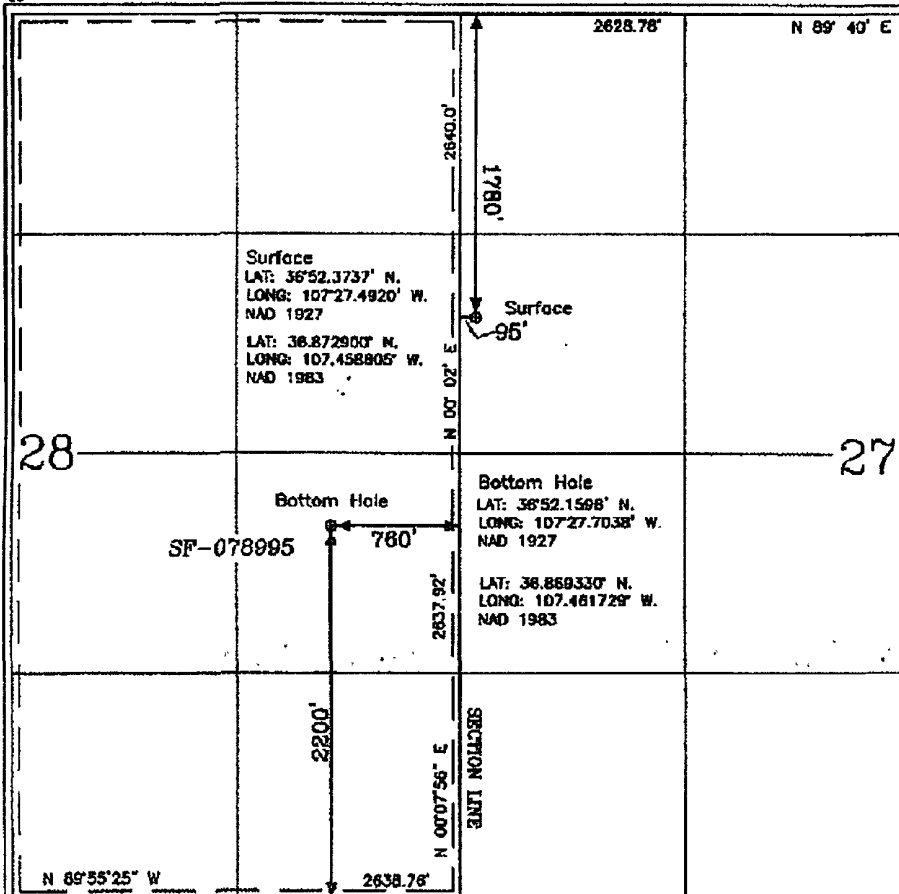
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	28	31-N	6-W		2200'	SOUTH	760'	EAST	RIO ARRIBA

*Dedicated Acres DK 320.0 ACRES E/2 MV 320.0 ACRES E/2	*Joint or Infill	*Consolidation Code	*Order No.
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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

16



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 is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafuya 7/7/08
Signature

Crystal Tafuya 7-7-08
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.

7-7-08
Date of Survey

Signature of Licensed Professional Surveyor

Allen W. Russell
15703
Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 39M

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7205		AFE \$:	
Field Name: 31-6		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Glaser, Terry J		Phone: +1 832 486 2332		Prod. Engineer:	
Res. Engineer: Pena, David Fernando		Phone: +1281-2931350		Proj. Field Lead: Fransen, Eric E.	
				Phone: +1-432-368-1215	

Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface		Datum Code: NAD 27		Deviated	
Latitude: 36.872778	Longitude: -107.458305	X:	Y:	Section: 27	Range: 006W
Footage X: 65 FWL	Footage Y: 1820 FNL	Elevation: 6328	(FT)	Township: 031N	
Tolerance: 95		1780			

Location: Bottom Hole		Datum Code: NAD 27		Deviated	
Latitude: 36.871729	Longitude: -107.461121	X: 0.00	Y: 0.00	Section: 28	Range: 006W
Footage X: 760 FEL	Footage Y: 2200 FSL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6344	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SURFACE CSG	347	5997	☐			12-1/4" hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cu. ft. Circulate cement to surface.
OJAM	2343	4001	☐			Possible water flows.
KRLD	2443	3901	☐			
FRLD	2910	3434	☐			Possible gas.
PCCF	3197	3147	☐			
LEWS	3492	2852	☐			
CHRA	4495	1849	☐			
Intermediate Casing	5001	1343	☐			8 3/4" Hole. 7", 23.0 ppf, L-80 ST&C casing. Cement with 843 cu. ft. Circulate cement to surface.
CLFH	5322	1022	☐			Gas; possibly wet
MENF	5358	986	☐			Gas.
PTLK	5617	727	☐	400		Gas.
MNCS	5833	511	☐			
GLLP	6916	-572	☐			Gas. Possibly wet.
GRHN	7648	-1304	☐	2100		Gas possible, highly fractured
GRRS	7696	-1352	☐			
TWLS	7807	-1463	☐			Gas
PAGU	7811	-1467	☐			Gas. Highly Fractured.
CBBO	7818	-1474	☐			Gas
CBRL	7864	-1520	☐			TD 10' into Encinal.
TOTAL DEPTH DK	7953	-1609	☐			6-1/4" hole. 4-1/2", 11.6#, L-80, LT&C casing. Cement with 588 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 39M

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	San Juan 31-6 39	28-31N-6W-NE, KB = 6488

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
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CBL/GR Mudlog from 100' above Greenhorn to TD - loggers will call TD.

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

Comments: Location/Tops/Logging - MVNM031N006W28SE2 AND DK 31N06W28SE2

Zones - MVNM031N006W28SE2 AND DK 31N06W28SE2

General/Work Description - MV80/DK80 directional well



ConocoPhillips & Burlington Resources

**San Juan Basin New Mexico
SECTION 27 31N 6W
SJ 31-6 # 39M**

Wellbore #1

Plan: Design #1 ✓

Standard Planning Report

29 September, 2008

HATHAWAY HBBURNHAM
DIRECTIONAL & MWD SERVICES

Database:	EDM 2003 21 Single User Db	Local Co-ordinate Reference:	Well SJ 31-6 # 39M
Company:	ConocoPhillips & Burlington Resources	TVD Reference:	33M @ 6344.00ft (AWS 711)
Project:	San Juan Basin New Mexico	MD Reference:	39M @ 6344.00ft (AWS 711)
Site:	SECTION 27 31N 6W	North Reference:	True
Well:	SJ 31-6 # 39M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project San Juan Basin New Mexico, NEW MEXICO

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

Site SECTION 27 31N 6W, SEC 27 31N 6W

Site Position:	Northing:	2,136,351.00 ft	Latitude:	36 870493
From: Map	Easting:	613,125.00 ft	Longitude:	-107.446595
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:
				0.23 °

Well SJ 31-6 # 39M, SHL LAT: 36.872895, LONG: -107.4582

Well Position	+N/-S	874.24 ft	Northing:	2,137,211.83 ft	Latitude:	36.872895
	+E/-W	-3,394.90 ft	Easting:	609,726.93 ft	Longitude:	-107.458200
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft	

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	9/17/2008	10.10	63.71	51,149

Design Design #1

Audit Notes:

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
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Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	213.47

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,633.16	23.66	213.47	1,599.81	-200.93	-132.84	2.00	2.00	0.00	213.47	
4,509.67	23.66	213.47	4,234.46	-1,163.99	-769.55	0.00	0.00	0.00	0.00	
5,298.44	0.00	0.00	5,001.00	-1,297.94	-858.11	3.00	-3.00	0.00	180.00	SJ 31-6 # 39M ICP
8,250.44	0.00	0.00	7,953.00	-1,297.94	-858.11	0.00	0.00	0.00	0.00	SJ 31-6 # 39M PCF



Hathaway Burnham Planning Report

HATHAWAY BURNHAM
DIRECTIONAL & SURVEY SERVICES

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 27 31N GW
Well: SJ 31-6 # 39M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Well SJ 31-6 # 39M
39M @ 6344.00ft (AWS 711)
39M @ 6344.00ft (AWS 711)
True
Minimum Curvature

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00
50.00	0.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00
75.00	0.00	0.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
125.00	0.00	0.00	125.00	0.00	0.00	0.00	0.00	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00
175.00	0.00	0.00	175.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
225.00	0.00	0.00	225.00	0.00	0.00	0.00	0.00	0.00	0.00
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00
275.00	0.00	0.00	275.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
325.00	0.00	0.00	325.00	0.00	0.00	0.00	0.00	0.00	0.00
350.00	0.00	0.00	350.00	0.00	0.00	0.00	0.00	0.00	0.00
375.00	0.00	0.00	375.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
425.00	0.00	0.00	425.00	0.00	0.00	0.00	0.00	0.00	0.00
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
475.00	0.50	213.47	475.00	-0.09	-0.06	0.11	2.00	2.00	0.00
500.00	1.00	213.47	500.00	-0.36	-0.24	0.44	2.00	2.00	0.00
525.00	1.50	213.47	524.99	-0.82	-0.54	0.98	2.00	2.00	0.00
550.00	2.00	213.47	549.98	-1.46	-0.96	1.75	2.00	2.00	0.00
575.00	2.50	213.47	574.96	-2.27	-1.50	2.73	2.00	2.00	0.00
600.00	3.00	213.47	599.93	-3.28	-2.17	3.93	2.00	2.00	0.00
625.00	3.50	213.47	624.89	-4.46	-2.95	5.34	2.00	2.00	0.00
650.00	4.00	213.47	649.84	-5.82	-3.85	6.98	2.00	2.00	0.00
675.00	4.50	213.47	674.77	-7.37	-4.87	8.83	2.00	2.00	0.00
700.00	5.00	213.47	699.68	-9.09	-6.01	10.90	2.00	2.00	0.00
725.00	5.50	213.47	724.58	-11.00	-7.27	13.19	2.00	2.00	0.00
750.00	6.00	213.47	749.45	-13.09	-8.65	15.69	2.00	2.00	0.00
775.00	6.50	213.47	774.30	-15.36	-10.16	18.42	2.00	2.00	0.00
800.00	7.00	213.47	799.13	-17.81	-11.78	21.35	2.00	2.00	0.00
825.00	7.50	213.47	823.93	-20.44	-13.52	24.51	2.00	2.00	0.00
850.00	8.00	213.47	848.70	-23.26	-15.38	27.88	2.00	2.00	0.00
875.00	8.50	213.47	873.44	-26.25	-17.35	31.47	2.00	2.00	0.00
900.00	9.00	213.47	898.15	-29.42	-19.45	35.27	2.00	2.00	0.00
925.00	9.50	213.47	922.83	-32.77	-21.67	39.29	2.00	2.00	0.00
950.00	10.00	213.47	947.47	-36.31	-24.00	43.52	2.00	2.00	0.00
975.00	10.50	213.47	972.07	-40.02	-26.46	47.97	2.00	2.00	0.00
1,000.00	11.00	213.47	996.63	-43.91	-29.03	52.63	2.00	2.00	0.00
1,025.00	11.50	213.47	1,021.15	-47.97	-31.72	57.51	2.00	2.00	0.00
1,050.00	12.00	213.47	1,045.62	-52.22	-34.53	62.60	2.00	2.00	0.00
1,075.00	12.50	213.47	1,070.05	-56.65	-37.45	67.91	2.00	2.00	0.00
1,100.00	13.00	213.47	1,094.44	-61.25	-40.49	73.42	2.00	2.00	0.00
1,125.00	13.50	213.47	1,118.77	-66.03	-43.65	79.15	2.00	2.00	0.00
1,150.00	14.00	213.47	1,143.06	-70.99	-46.93	85.10	2.00	2.00	0.00
1,175.00	14.50	213.47	1,167.29	-76.12	-50.32	91.25	2.00	2.00	0.00
1,200.00	15.00	213.47	1,191.46	-81.43	-53.83	97.62	2.00	2.00	0.00
1,225.00	15.50	213.47	1,215.58	-86.91	-57.46	104.19	2.00	2.00	0.00
1,250.00	16.00	213.47	1,239.64	-92.57	-61.20	110.98	2.00	2.00	0.00
1,275.00	16.50	213.47	1,263.64	-98.41	-65.06	117.97	2.00	2.00	0.00
1,300.00	17.00	213.47	1,287.58	-104.42	-69.04	125.18	2.00	2.00	0.00
1,325.00	17.50	213.47	1,311.46	-110.60	-73.12	132.59	2.00	2.00	0.00

Database: EDM 2003 21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 27 31N 6W
Well: SJ 31-6 # 39M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 31-6 # 39M
TVD Reference: 39M @ 6344 00ft (AWS 711)
MD Reference: 39M @ 6344 00ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
1,350.00	18.00	213.47	1,335.27	-116.96	-77.33	140.21	2.00	2.00	0.00
1,375.00	18.50	213.47	1,359.01	-123.49	-81.64	148.04	2.00	2.00	0.00
1,400.00	19.00	213.47	1,382.68	-130.20	-86.08	156.08	2.00	2.00	0.00
1,425.00	19.50	213.47	1,406.29	-137.07	-90.62	164.32	2.00	2.00	0.00
1,450.00	20.00	213.47	1,429.82	-144.12	-95.28	172.77	2.00	2.00	0.00
1,475.00	20.50	213.47	1,453.27	-151.34	-100.05	181.42	2.00	2.00	0.00
1,500.00	21.00	213.47	1,476.65	-158.73	-104.94	190.28	2.00	2.00	0.00
1,525.00	21.50	213.47	1,499.95	-166.28	-109.93	199.34	2.00	2.00	0.00
1,550.00	22.00	213.47	1,523.17	-174.01	-115.04	208.60	2.00	2.00	0.00
1,575.00	22.50	213.47	1,546.31	-181.91	-120.26	218.07	2.00	2.00	0.00
1,600.00	23.00	213.47	1,569.36	-189.97	-125.60	227.74	2.00	2.00	0.00
1,625.00	23.50	213.47	1,592.33	-198.20	-131.04	237.61	2.00	2.00	0.00
1,633.16	23.66	213.47	1,599.81	-200.93	-132.84	240.87	2.00	2.00	0.00
1,650.00	23.66	213.47	1,615.23	-206.57	-136.57	247.63	0.00	0.00	0.00
1,675.00	23.66	213.47	1,638.13	-214.94	-142.10	257.66	0.00	0.00	0.00
1,700.00	23.66	213.47	1,661.03	-223.31	-147.63	267.70	0.00	0.00	0.00
1,725.00	23.66	213.47	1,683.93	-231.68	-153.17	277.73	0.00	0.00	0.00
1,750.00	23.66	213.47	1,706.83	-240.05	-158.70	287.76	0.00	0.00	0.00
1,775.00	23.66	213.47	1,729.72	-248.42	-164.23	297.80	0.00	0.00	0.00
1,800.00	23.66	213.47	1,752.62	-256.79	-169.77	307.83	0.00	0.00	0.00
1,825.00	23.66	213.47	1,775.52	-265.16	-175.30	317.87	0.00	0.00	0.00
1,850.00	23.66	213.47	1,798.42	-273.53	-180.84	327.90	0.00	0.00	0.00
1,875.00	23.66	213.47	1,821.32	-281.90	-186.37	337.93	0.00	0.00	0.00
1,900.00	23.66	213.47	1,844.21	-290.27	-191.90	347.97	0.00	0.00	0.00
1,925.00	23.66	213.47	1,867.11	-298.64	-197.44	358.00	0.00	0.00	0.00
1,950.00	23.66	213.47	1,890.01	-307.01	-202.97	368.04	0.00	0.00	0.00
1,975.00	23.66	213.47	1,912.91	-315.38	-208.50	378.07	0.00	0.00	0.00
2,000.00	23.66	213.47	1,935.81	-323.75	-214.04	388.10	0.00	0.00	0.00
2,025.00	23.66	213.47	1,958.71	-332.12	-219.57	398.14	0.00	0.00	0.00
2,050.00	23.66	213.47	1,981.60	-340.49	-225.11	408.17	0.00	0.00	0.00
2,075.00	23.66	213.47	2,004.50	-348.86	-230.64	418.21	0.00	0.00	0.00
2,100.00	23.66	213.47	2,027.40	-357.23	-236.17	428.24	0.00	0.00	0.00
2,125.00	23.66	213.47	2,050.30	-365.60	-241.71	438.27	0.00	0.00	0.00
2,150.00	23.66	213.47	2,073.20	-373.97	-247.24	448.31	0.00	0.00	0.00
2,175.00	23.66	213.47	2,096.09	-382.34	-252.77	458.34	0.00	0.00	0.00
2,200.00	23.66	213.47	2,118.99	-390.71	-258.31	468.38	0.00	0.00	0.00
2,225.00	23.66	213.47	2,141.89	-399.08	-263.84	478.41	0.00	0.00	0.00
2,250.00	23.66	213.47	2,164.79	-407.45	-269.38	488.44	0.00	0.00	0.00
2,275.00	23.66	213.47	2,187.69	-415.82	-274.91	498.48	0.00	0.00	0.00
2,300.00	23.66	213.47	2,210.58	-424.19	-280.44	508.51	0.00	0.00	0.00
2,325.00	23.66	213.47	2,233.48	-432.56	-285.98	518.55	0.00	0.00	0.00
2,350.00	23.66	213.47	2,256.38	-440.93	-291.51	528.58	0.00	0.00	0.00
2,375.00	23.66	213.47	2,279.28	-449.30	-297.04	538.61	0.00	0.00	0.00
2,400.00	23.66	213.47	2,302.18	-457.67	-302.58	548.65	0.00	0.00	0.00
2,425.00	23.66	213.47	2,325.07	-466.04	-308.11	558.68	0.00	0.00	0.00
2,444.57	23.66	213.47	2,343.00	-472.59	-312.44	566.54	0.00	0.00	0.00
OJAM									
2,450.00	23.66	213.47	2,347.97	-474.41	-313.64	568.72	0.00	0.00	0.00
2,475.00	23.66	213.47	2,370.87	-482.78	-319.18	578.75	0.00	0.00	0.00
2,500.00	23.66	213.47	2,393.77	-491.15	-324.71	588.78	0.00	0.00	0.00
2,525.00	23.66	213.47	2,416.67	-499.52	-330.25	598.82	0.00	0.00	0.00
2,550.00	23.66	213.47	2,439.56	-507.89	-335.78	608.85	0.00	0.00	0.00
2,552.66	23.66	213.47	2,442.00	-508.78	-336.37	609.92	0.00	0.00	0.00

Database: EDM 2003.21 Single User Db
 Company: ConocoPhillips & Burlington Resources
 Project: San Juan Basin New Mexico
 Site: SECTION 27 31N 6W
 Well: SJ 31-6 # 39M
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 31-6 # 39M
 TVD Reference: 39M @ 6344.00ft (AWS 711)
 MD Reference: 39M @ 6344.00ft (AWS 711)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
KRLD									
2,575.00	23.66	213.47	2,462.46	-516.26	-341.31	618.88	0.00	0.00	0.00
2,600.00	23.66	213.47	2,485.36	-524.63	-346.85	628.92	0.00	0.00	0.00
2,625.00	23.66	213.47	2,508.26	-533.00	-352.38	638.95	0.00	0.00	0.00
2,650.00	23.66	213.47	2,531.16	-541.37	-357.91	648.99	0.00	0.00	0.00
2,675.00	23.66	213.47	2,554.05	-549.74	-363.45	659.02	0.00	0.00	0.00
2,700.00	23.66	213.47	2,576.95	-558.11	-368.98	669.05	0.00	0.00	0.00
2,725.00	23.66	213.47	2,599.85	-566.48	-374.52	679.09	0.00	0.00	0.00
2,750.00	23.66	213.47	2,622.75	-574.85	-380.05	689.12	0.00	0.00	0.00
2,775.00	23.66	213.47	2,645.65	-583.22	-385.58	699.16	0.00	0.00	0.00
2,800.00	23.66	213.47	2,668.54	-591.59	-391.12	709.19	0.00	0.00	0.00
2,825.00	23.66	213.47	2,691.44	-599.96	-396.65	719.22	0.00	0.00	0.00
2,850.00	23.66	213.47	2,714.34	-608.33	-402.18	729.26	0.00	0.00	0.00
2,875.00	23.66	213.47	2,737.24	-616.70	-407.72	739.29	0.00	0.00	0.00
2,900.00	23.66	213.47	2,760.14	-625.07	-413.25	749.33	0.00	0.00	0.00
2,925.00	23.66	213.47	2,783.03	-633.44	-418.78	759.36	0.00	0.00	0.00
2,950.00	23.66	213.47	2,805.93	-641.81	-424.32	769.39	0.00	0.00	0.00
2,975.00	23.66	213.47	2,828.83	-650.18	-429.85	779.43	0.00	0.00	0.00
3,000.00	23.66	213.47	2,851.73	-658.55	-435.39	789.46	0.00	0.00	0.00
3,025.00	23.66	213.47	2,874.63	-666.92	-440.92	799.50	0.00	0.00	0.00
3,049.43	23.66	213.47	2,897.00	-675.10	-446.33	809.30	0.00	0.00	0.00
PCCF									
3,050.00	23.66	213.47	2,897.52	-675.29	-446.45	809.53	0.00	0.00	0.00
3,063.62	23.66	213.47	2,910.00	-679.85	-449.47	815.00	0.00	0.00	0.00
FRLD									
3,075.00	23.66	213.47	2,920.42	-683.66	-451.99	819.56	0.00	0.00	0.00
3,100.00	23.66	213.47	2,943.32	-692.03	-457.52	829.60	0.00	0.00	0.00
3,125.00	23.66	213.47	2,966.22	-700.40	-463.05	839.63	0.00	0.00	0.00
3,150.00	23.66	213.47	2,989.12	-708.77	-468.59	849.67	0.00	0.00	0.00
3,175.00	23.66	213.47	3,012.01	-717.14	-474.12	859.70	0.00	0.00	0.00
3,200.00	23.66	213.47	3,034.91	-725.51	-479.66	869.73	0.00	0.00	0.00
3,225.00	23.66	213.47	3,057.81	-733.88	-485.19	879.77	0.00	0.00	0.00
3,250.00	23.66	213.47	3,080.71	-742.25	-490.72	889.80	0.00	0.00	0.00
3,275.00	23.66	213.47	3,103.61	-750.62	-496.26	899.84	0.00	0.00	0.00
3,300.00	23.66	213.47	3,126.50	-758.99	-501.79	909.87	0.00	0.00	0.00
3,325.00	23.66	213.47	3,149.40	-767.36	-507.32	919.90	0.00	0.00	0.00
3,350.00	23.66	213.47	3,172.30	-775.73	-512.86	929.94	0.00	0.00	0.00
3,375.00	23.66	213.47	3,195.20	-784.10	-518.39	939.97	0.00	0.00	0.00
3,400.00	23.66	213.47	3,218.10	-792.47	-523.92	950.01	0.00	0.00	0.00
3,425.00	23.66	213.47	3,240.99	-800.84	-529.46	960.04	0.00	0.00	0.00
3,450.00	23.66	213.47	3,263.89	-809.21	-534.99	970.07	0.00	0.00	0.00
3,475.00	23.66	213.47	3,286.79	-817.58	-540.53	980.11	0.00	0.00	0.00
3,500.00	23.66	213.47	3,309.69	-825.95	-546.06	990.14	0.00	0.00	0.00
3,525.00	23.66	213.47	3,332.59	-834.32	-551.59	1,000.18	0.00	0.00	0.00
3,550.00	23.66	213.47	3,355.48	-842.69	-557.13	1,010.21	0.00	0.00	0.00
3,575.00	23.66	213.47	3,378.38	-851.06	-562.66	1,020.24	0.00	0.00	0.00
3,600.00	23.66	213.47	3,401.28	-859.43	-568.19	1,030.28	0.00	0.00	0.00
3,625.00	23.66	213.47	3,424.18	-867.80	-573.73	1,040.31	0.00	0.00	0.00
3,650.00	23.66	213.47	3,447.08	-876.17	-579.26	1,050.34	0.00	0.00	0.00
3,675.00	23.66	213.47	3,469.98	-884.54	-584.80	1,060.38	0.00	0.00	0.00
3,699.05	23.66	213.47	3,492.00	-892.59	-590.12	1,070.03	0.00	0.00	0.00
LEWS									
3,700.00	23.66	213.47	3,492.87	-892.91	-590.33	1,070.41	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well SJ 31-6 # 39M
Company:	ConocoPhillips & Burlington Resources	TVD Reference:	39M @ 6344.00ft (AWS 711)
Project:	San Juan Basin New Mexico	MD Reference:	39M @ 6344.00ft (AWS 711)
Site:	SECTION 27 31N 6W	North Reference:	True
Well:	SJ 31-6 # 39M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
3,725.00	23.66	213.47	3,515.77	-901.28	-595.86	1,080.45	0.00	0.00	0.00
3,750.00	23.66	213.47	3,538.67	-909.65	-601.40	1,090.48	0.00	0.00	0.00
3,775.00	23.66	213.47	3,561.57	-918.02	-606.93	1,100.51	0.00	0.00	0.00
3,800.00	23.66	213.47	3,584.47	-926.39	-612.46	1,110.55	0.00	0.00	0.00
3,825.00	23.66	213.47	3,607.36	-934.76	-618.00	1,120.58	0.00	0.00	0.00
3,850.00	23.66	213.47	3,630.26	-943.13	-623.53	1,130.62	0.00	0.00	0.00
3,875.00	23.66	213.47	3,653.16	-951.50	-629.07	1,140.65	0.00	0.00	0.00
3,900.00	23.66	213.47	3,676.06	-959.87	-634.60	1,150.68	0.00	0.00	0.00
3,925.00	23.66	213.47	3,698.96	-968.24	-640.13	1,160.72	0.00	0.00	0.00
3,950.00	23.66	213.47	3,721.85	-976.61	-645.67	1,170.75	0.00	0.00	0.00
3,975.00	23.66	213.47	3,744.75	-984.98	-651.20	1,180.79	0.00	0.00	0.00
4,000.00	23.66	213.47	3,767.65	-993.35	-656.73	1,190.82	0.00	0.00	0.00
4,025.00	23.66	213.47	3,790.55	-1,001.72	-662.27	1,200.85	0.00	0.00	0.00
4,050.00	23.66	213.47	3,813.45	-1,010.09	-667.80	1,210.89	0.00	0.00	0.00
4,075.00	23.66	213.47	3,836.34	-1,018.46	-673.33	1,220.92	0.00	0.00	0.00
4,100.00	23.66	213.47	3,859.24	-1,026.84	-678.87	1,230.96	0.00	0.00	0.00
4,125.00	23.66	213.47	3,882.14	-1,035.21	-684.40	1,240.99	0.00	0.00	0.00
4,150.00	23.66	213.47	3,905.04	-1,043.58	-689.94	1,251.02	0.00	0.00	0.00
4,175.00	23.66	213.47	3,927.94	-1,051.95	-695.47	1,261.06	0.00	0.00	0.00
4,200.00	23.66	213.47	3,950.83	-1,060.32	-701.00	1,271.09	0.00	0.00	0.00
4,225.00	23.66	213.47	3,973.73	-1,068.69	-706.54	1,281.13	0.00	0.00	0.00
4,250.00	23.66	213.47	3,996.63	-1,077.06	-712.07	1,291.16	0.00	0.00	0.00
4,275.00	23.66	213.47	4,019.53	-1,085.43	-717.60	1,301.19	0.00	0.00	0.00
4,300.00	23.66	213.47	4,042.43	-1,093.80	-723.14	1,311.23	0.00	0.00	0.00
4,325.00	23.66	213.47	4,065.32	-1,102.17	-728.67	1,321.26	0.00	0.00	0.00
4,350.00	23.66	213.47	4,088.22	-1,110.54	-734.21	1,331.30	0.00	0.00	0.00
4,375.00	23.66	213.47	4,111.12	-1,118.91	-739.74	1,341.33	0.00	0.00	0.00
4,400.00	23.66	213.47	4,134.02	-1,127.28	-745.27	1,351.36	0.00	0.00	0.00
4,425.00	23.66	213.47	4,156.92	-1,135.65	-750.81	1,361.40	0.00	0.00	0.00
4,450.00	23.66	213.47	4,179.81	-1,144.02	-756.34	1,371.43	0.00	0.00	0.00
4,475.00	23.66	213.47	4,202.71	-1,152.39	-761.87	1,381.47	0.00	0.00	0.00
4,500.00	23.66	213.47	4,225.61	-1,160.76	-767.41	1,391.50	0.00	0.00	0.00
4,509.67	23.66	213.47	4,234.46	-1,163.99	-769.55	1,395.38	0.00	0.00	0.00
4,525.00	23.20	213.47	4,248.53	-1,169.08	-772.91	1,401.48	3.00	-3.00	0.00
4,550.00	22.45	213.47	4,271.57	-1,177.17	-778.26	1,411.18	3.00	-3.00	0.00
4,575.00	21.70	213.47	4,294.74	-1,185.01	-783.44	1,420.57	3.00	-3.00	0.00
4,600.00	20.95	213.47	4,318.03	-1,192.59	-788.46	1,429.67	3.00	-3.00	0.00
4,625.00	20.20	213.47	4,341.43	-1,199.92	-793.30	1,438.45	3.00	-3.00	0.00
4,650.00	19.45	213.47	4,364.95	-1,207.00	-797.98	1,446.93	3.00	-3.00	0.00
4,675.00	18.70	213.47	4,388.58	-1,213.81	-802.48	1,455.10	3.00	-3.00	0.00
4,700.00	17.95	213.47	4,412.31	-1,220.37	-806.82	1,462.96	3.00	-3.00	0.00
4,725.00	17.20	213.47	4,436.14	-1,226.67	-810.98	1,470.51	3.00	-3.00	0.00
4,750.00	16.45	213.47	4,460.07	-1,232.71	-814.98	1,477.75	3.00	-3.00	0.00
4,775.00	15.70	213.47	4,484.09	-1,238.48	-818.79	1,484.68	3.00	-3.00	0.00
4,786.32	15.36	213.47	4,495.00	-1,241.01	-820.47	1,487.71	3.00	-3.00	0.00
CJRA									
4,800.00	14.95	213.47	4,508.20	-1,244.00	-822.44	1,491.28	3.00	-3.00	0.00
4,825.00	14.20	213.47	4,532.40	-1,249.24	-825.91	1,497.58	3.00	-3.00	0.00
4,850.00	13.45	213.47	4,556.67	-1,254.23	-829.20	1,503.55	3.00	-3.00	0.00
4,875.00	12.70	213.47	4,581.03	-1,258.95	-832.32	1,509.21	3.00	-3.00	0.00
4,900.00	11.95	213.47	4,605.45	-1,263.40	-835.27	1,514.55	3.00	-3.00	0.00
4,925.00	11.20	213.47	4,629.94	-1,267.59	-838.03	1,519.56	3.00	-3.00	0.00
4,950.00	10.45	213.47	4,654.49	-1,271.50	-840.63	1,524.26	3.00	-3.00	0.00
4,975.00	9.70	213.47	4,679.11	-1,275.15	-843.04	1,528.64	3.00	-3.00	0.00

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 27 31N 6W
Well: SJ 31-6 # 39M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 31 6 # 39M
TVD Reference: 39M @ 6344.00ft (AWS 711)
MD Reference: 39M @ 6344.00ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
5,000.00	8.95	213.47	4,703.78	-1,278.53	-845.27	1,532.69	3.00	-3.00	0.00
5,025.00	8.20	213.47	4,728.50	-1,281.64	-847.33	1,536.42	3.00	-3.00	0.00
5,050.00	7.45	213.47	4,753.26	-1,284.48	-849.21	1,539.82	3.00	-3.00	0.00
5,075.00	6.70	213.47	4,778.07	-1,287.05	-850.91	1,542.90	3.00	-3.00	0.00
5,100.00	5.95	213.47	4,802.92	-1,289.35	-852.43	1,545.66	3.00	-3.00	0.00
5,125.00	5.20	213.47	4,827.80	-1,291.38	-853.77	1,548.09	3.00	-3.00	0.00
5,150.00	4.45	213.47	4,852.71	-1,293.13	-854.93	1,550.19	3.00	-3.00	0.00
5,175.00	3.70	213.47	4,877.65	-1,294.62	-855.91	1,551.97	3.00	-3.00	0.00
5,200.00	2.95	213.47	4,902.61	-1,295.83	-856.71	1,553.42	3.00	-3.00	0.00
5,225.00	2.20	213.47	4,927.58	-1,296.77	-857.33	1,554.55	3.00	-3.00	0.00
5,250.00	1.45	213.47	4,952.57	-1,297.43	-857.77	1,555.34	3.00	-3.00	0.00
5,275.00	0.70	213.47	4,977.57	-1,297.82	-858.03	1,555.81	3.00	-3.00	0.00
5,298.44	0.00	0.00	5,001.00	-1,297.94	-858.11	1,555.96	3.00	-3.00	625.26
ICP									
5,300.00	0.00	0.00	5,002.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,325.00	0.00	0.00	5,027.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,350.00	0.00	0.00	5,052.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,375.00	0.00	0.00	5,077.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,400.00	0.00	0.00	5,102.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,425.00	0.00	0.00	5,127.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,450.00	0.00	0.00	5,152.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,475.00	0.00	0.00	5,177.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,500.00	0.00	0.00	5,202.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,525.00	0.00	0.00	5,227.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,550.00	0.00	0.00	5,252.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,575.00	0.00	0.00	5,277.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,600.00	0.00	0.00	5,302.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,619.44	0.00	0.00	5,322.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
CLFH									
5,625.00	0.00	0.00	5,327.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,650.00	0.00	0.00	5,352.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,655.44	0.00	0.00	5,358.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
MENF									
5,675.00	0.00	0.00	5,377.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,700.00	0.00	0.00	5,402.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,725.00	0.00	0.00	5,427.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,750.00	0.00	0.00	5,452.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,775.00	0.00	0.00	5,477.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,800.00	0.00	0.00	5,502.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,825.00	0.00	0.00	5,527.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,850.00	0.00	0.00	5,552.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,875.00	0.00	0.00	5,577.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,900.00	0.00	0.00	5,602.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,914.44	0.00	0.00	5,617.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
PTLK									
5,925.00	0.00	0.00	5,627.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,950.00	0.00	0.00	5,652.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
5,975.00	0.00	0.00	5,677.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,000.00	0.00	0.00	5,702.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,025.00	0.00	0.00	5,727.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,050.00	0.00	0.00	5,752.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,075.00	0.00	0.00	5,777.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,100.00	0.00	0.00	5,802.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00



Hathaway Burnham

Planning Report

HATHAWAY BURNHAM
A DIRECTORIAL & SURVEY SERVICES

Database: EDM 2003 21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 27 31N 6W
Well: SJ 31-6 # 39M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 31-6 # 39M
TVD Reference: 39M @ 6344.00ft (AWS 711)
MD Reference: 39M @ 6344.00ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
6,125.00	0.00	0.00	5,827.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,130.44	0.00	0.00	5,833.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
MNCS									
6,150.00	0.00	0.00	5,852.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,175.00	0.00	0.00	5,877.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,200.00	0.00	0.00	5,902.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,225.00	0.00	0.00	5,927.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,250.00	0.00	0.00	5,952.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,275.00	0.00	0.00	5,977.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,300.00	0.00	0.00	6,002.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,325.00	0.00	0.00	6,027.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,350.00	0.00	0.00	6,052.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,375.00	0.00	0.00	6,077.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,400.00	0.00	0.00	6,102.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,425.00	0.00	0.00	6,127.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,450.00	0.00	0.00	6,152.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,475.00	0.00	0.00	6,177.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,500.00	0.00	0.00	6,202.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,525.00	0.00	0.00	6,227.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,550.00	0.00	0.00	6,252.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,575.00	0.00	0.00	6,277.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,600.00	0.00	0.00	6,302.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,625.00	0.00	0.00	6,327.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,650.00	0.00	0.00	6,352.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,675.00	0.00	0.00	6,377.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,700.00	0.00	0.00	6,402.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,725.00	0.00	0.00	6,427.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,750.00	0.00	0.00	6,452.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,775.00	0.00	0.00	6,477.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,800.00	0.00	0.00	6,502.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,825.00	0.00	0.00	6,527.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,850.00	0.00	0.00	6,552.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,875.00	0.00	0.00	6,577.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,900.00	0.00	0.00	6,602.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,925.00	0.00	0.00	6,627.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,950.00	0.00	0.00	6,652.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
6,975.00	0.00	0.00	6,677.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,000.00	0.00	0.00	6,702.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,025.00	0.00	0.00	6,727.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,050.00	0.00	0.00	6,752.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,075.00	0.00	0.00	6,777.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,100.00	0.00	0.00	6,802.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,125.00	0.00	0.00	6,827.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,150.00	0.00	0.00	6,852.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,175.00	0.00	0.00	6,877.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,200.00	0.00	0.00	6,902.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,213.44	0.00	0.00	6,916.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
GLLP									
7,225.00	0.00	0.00	6,927.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,250.00	0.00	0.00	6,952.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,275.00	0.00	0.00	6,977.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,300.00	0.00	0.00	7,002.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,325.00	0.00	0.00	7,027.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,350.00	0.00	0.00	7,052.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00

Database:	EDM 2003 21 Single User Db	Local Co-ordinate Reference:	Well SJ 31-6 # 39M
Company:	ConocoPhillips & Burlington Resources	TVD Reference:	39M @ 6344.00ft (AWS 711)
Project:	San Juan Basin New Mexico	MD Reference:	39M @ 6344.00ft (AWS 711)
Site:	SECTION 27 31N 6W	North Reference:	True
Well:	SJ 31-6 # 39M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

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)
7,375.00	0.00	0.00	7,077.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,400.00	0.00	0.00	7,102.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,425.00	0.00	0.00	7,127.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,450.00	0.00	0.00	7,152.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,475.00	0.00	0.00	7,177.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,500.00	0.00	0.00	7,202.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,525.00	0.00	0.00	7,227.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,550.00	0.00	0.00	7,252.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,575.00	0.00	0.00	7,277.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,600.00	0.00	0.00	7,302.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,625.00	0.00	0.00	7,327.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,650.00	0.00	0.00	7,352.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,675.00	0.00	0.00	7,377.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,700.00	0.00	0.00	7,402.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,725.00	0.00	0.00	7,427.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,750.00	0.00	0.00	7,452.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,775.00	0.00	0.00	7,477.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,800.00	0.00	0.00	7,502.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,825.00	0.00	0.00	7,527.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,850.00	0.00	0.00	7,552.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,875.00	0.00	0.00	7,577.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,900.00	0.00	0.00	7,602.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,925.00	0.00	0.00	7,627.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,945.44	0.00	0.00	7,648.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
GRHN									
7,950.00	0.00	0.00	7,652.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,975.00	0.00	0.00	7,677.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
7,993.44	0.00	0.00	7,696.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
GRRS									
8,000.00	0.00	0.00	7,702.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,025.00	0.00	0.00	7,727.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,050.00	0.00	0.00	7,752.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,075.00	0.00	0.00	7,777.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,100.00	0.00	0.00	7,802.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,104.44	0.00	0.00	7,807.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
TWLS									
8,108.44	0.00	0.00	7,811.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
PAGU									
8,114.44	0.00	0.00	7,817.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
CBBO									
8,125.00	0.00	0.00	7,827.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,150.00	0.00	0.00	7,852.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,160.44	0.00	0.00	7,863.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
CBRL									
8,175.00	0.00	0.00	7,877.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,200.00	0.00	0.00	7,902.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,225.00	0.00	0.00	7,927.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,250.00	0.00	0.00	7,952.56	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
8,250.44	0.00	0.00	7,953.00	-1,297.94	-858.11	1,555.96	0.00	0.00	0.00
DK									

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips & Burlington Resources
Project: San Juan Basin New Mexico
Site: SECTION 27 31N 6W
Well: SJ 31-6 # 39M
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 31-6 # 39M
TVD Reference: 39M @ 6344 00ft (AWS 711)
MD Reference: 39M @ 6344 00ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
Formation 21						
2,444.57	2,343.00	OJAM		0.00		
2,552.66	2,442.00	KRLD		0.00		
3,049.43	2,897.00	PCCF		0.00		
3,063.62	2,910.00	FRLD		0.00		
3,699.05	3,492.00	LEWS		0.00		
4,786.32	4,495.00	CJRA		0.00		
5,298.44	5,001.00	ICP		0.00		
5,619.44	5,322.00	CLFH		0.00		
5,655.44	5,358.00	MENF		0.00		
5,914.44	5,617.00	PTLK		0.00		
6,130.44	5,833.00	MNCS		0.00		
7,213.44	6,916.00	GLLP		0.00		
7,945.44	7,648.00	GRHN		0.00		
7,993.44	7,696.00	GRRS		0.00		
8,104.44	7,807.00	TWLS		0.00		
8,108.44	7,811.00	PAGU		0.00		
8,114.44	7,817.00	CBBO		0.00		
8,160.44	7,863.00	CBRL		0.00		
8,250.44	7,953.00	DK		0.00		

DRILLING CONDITIONS OF APPROVAL

Operator: ConocoPhillips Company
Lease No.: NMSF-078995
Well Name: San Juan 31-6 Unit #39M
Well Location: Sec.27, T31N, R6W; 1780' FNL & 95' FWL

-Adjust the cement volumes on the surface and intermediate strings accordingly to properly circulate cement to surface.