

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 06 2012

FORM APPROVED
OMB No 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5 Lease Serial No
SF-080672
6 If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.		7 If Unit of CA/Agreement, Name and/or No. San Juan 27-4 Unit
1 Type of Well ☐ Oil Well ☒ Gas Well ☐ Other	8. Well Name and No San Juan 27-4 Unit 155A	
2. Name of Operator Burlington Resources Oil & Gas Company LP	9 API Well No. 30-039-30967	
3a. Address PO Box 4289, Farmington, NM 87499	3b. Phone No (include area code) (505) 326-9700	10. Field and Pool or Exploratory Area Blanco MV/Basin Mancos/Basin DK
4. Location of Well (Footage, Sec., T, R., M., or Survey Description) Surface Unit M (SWSW), 1117 FSL & 988' FWL, Sec. 24, T27N, R4W Bottomhole Unit M (SWSW), 1236' FSL & 804' FWL, Sec. 24, T27N, R4W		11. Country or Parish, State Rio Arriba, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

For anti-collision issues with the San Juan 27-4 Unit 81 which is twinned on the same location, Burlington Resources is now proposing to use directional tools and nudge this well. Attached is a new Project Proposal, Directional Plan, and C-102.

RCVD JUN 11 '12
OIL CONS. DIV.

DIST. 3

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) DENISE JOURNEY		Title REGULATORY TECHNICIAN
Signature <i>Denise Journey</i>		Date 6/6/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>Shea C. Valt</i>	Title PE	Date 6/6/12
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office FFO	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

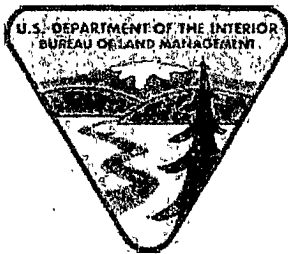
nmocd

A

DRILLING CONDITIONS OF APPROVAL

Operator: Burlington Resources
Lease No.: NMSF-080672
Well Name: San Juan 27-4 Unit #155A
Well Location: Sec.24, T27N, R4W; 1117' FSL & 988' FWL

To meet minimum standards, Burlington Resources will have at least the top 600' of the 4.5" production casing be the 11.6ppf, L-80 casing.



After hour contact: Troy Salyers 505-360-9815

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1233 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

Farmington Field Office
Bureau of Land Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30967	² Pool Code 72319/71599/97232	³ Pool Name Blanco Mesaverde/Basin Mancos/Basin Dakota
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	
	⁶ Well Number 155A	⁹ Elevation 7170

10 SURFACE LOCATION

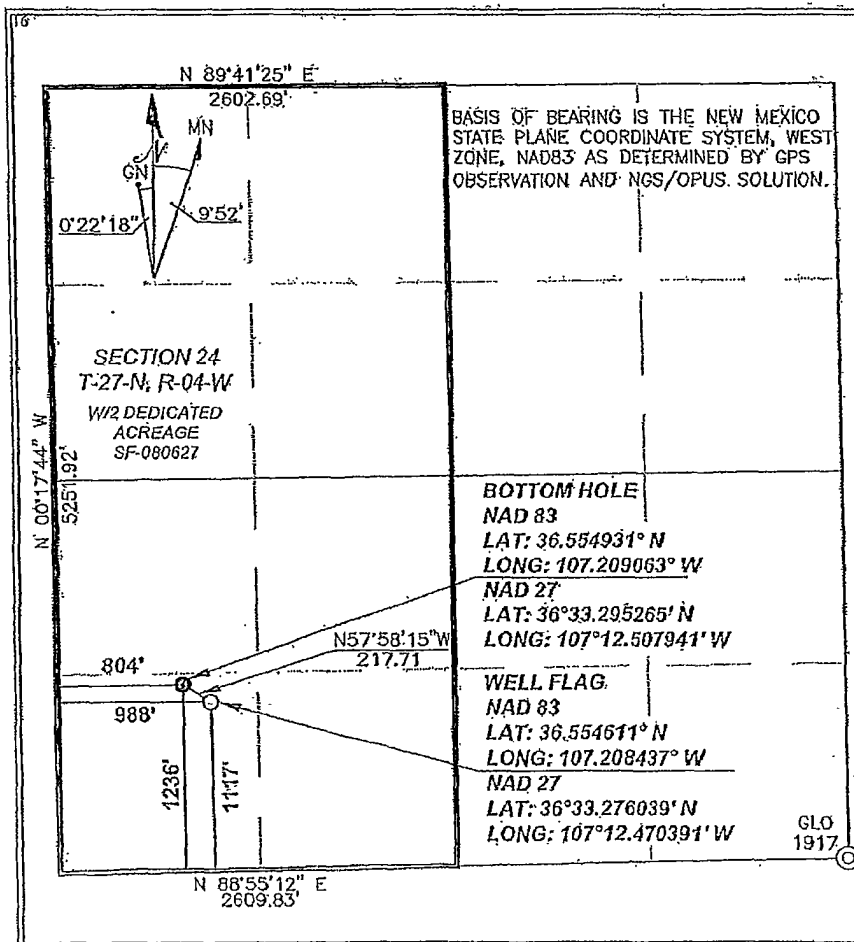
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	27-N	4-W		1117	SOUTH	988	WEST	RIO ARriba

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
M	24	27-N	4-W		1236	SOUTH	804	WEST	RIO ARriba

¹² Dedicated Acres. W/2(320)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.



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 designation 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.

Denise Journey 6/6/12
Signature Date

Denise Journey
Printed Name

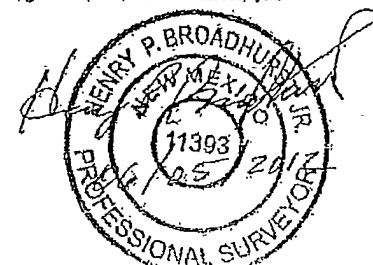
Denise.Journey@conocophillips.com

E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 07/15/2009
Signature and Seal of Professional Surveyor



Certificate Number: NM 11393

RCVD JUN 11 '12
OIL CONS. DIV.
DIST. 3

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 155A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9125		AFE \$: 2,169,003.23	
Field Name: SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
API #: 3003930967					
Geologist:	Phone:	Geophysicist:	Phone:		
Geoscientist:	Phone:	Prod. Engineer:	Phone:		
Res. Engineer:	Phone:	Proj. Field Lead:	Phone:		
Primary Objective (Zones):					
Zone	Zone Name				
RCO085	MANCOS(RCO085)				
R20076	DAKOTA(R20076)				
R20002	MESAVERDE(R20002)				

Location: Surface		Datum Code: NAD 27		Directional:	
Latitude: 36.554601	Longitude: -107.207839	X:	Y:	Section: 24	Range: 004W
Footage X: 988 FWL	Footage Y: 1117 FSL	Elevation: 7170	(FT)	Township: 027N	
Tolerance:					
Location: Bottom Hole		Datum Code: NAD 27		Directional:	
Latitude: 36.554930	Longitude: -107.208468	X:	Y:	Section: 24	Range: 004W
Footage X: 804 FWL	Footage Y: 1236 FSL	Elevation:	(FT)	Township: 027N	
Tolerance:					

Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7186		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	201	6985		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2278	4908		☐			
OJO ALAMO	3440	3746		☐			
KIRTLAND	3594	3592		☐			
FRUITLAND	3676	3510		☐			Possible Gas
PICTURED CLIFFS	4024	3162		☐			
LEWIS	4105	3081		☐			
Intermediate Casing	4205	2981		☐			8 3/4" Hole. 7", 20 ppf, J-55, LTC STC Casing. Cement with 4204 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4488	2698		☐			
CHACRA	4988	2198		☐			
UPPER CLIFF HOUSE	5591	1595		☐			Gas; Est. Top Perf - 5592 (1593)
MASSIVE CLIFF HOUSE	5737	1449		☐	898		Gas; Cliffhouse is dry
MENEFEE	5866	1320		☐			
POINT LOOKOUT	6140	1046		☐			
MANCOS	6707	479		☐			
UPPER GALLUP	7338	-152		☐			
GREENHORN	8148	-962		☐			
GRANEROS	8204	-1018		☐			
TWO WELLS	8248	-1062		☐	3350		Gas
PAGUATE	8318	-1132		☐			
UPPER CUBERO	8356	-1170		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 155A

DEVELOPMENT

LOWER CUBERO	8399	-1213	☐	Est Bottom Perf ~15' from TD.
OAK CANYON	8420	-1234	☐	
Total Depth	8454	-1268	☐	6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55/L-80, STC/LTC casing. Cement w/ 578 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	8454	-1268	☐	TD - T/ENCN

Reference Wells:

Reference Type	Well Name	Comments
Production	Champlin 5C	27N 4W 25 E2 SW SW
Production	Champlin 8-25	27N 4W 25 SE NW SE
Production	Champlin 7B	27N 4W 25 SE NW NE
Production	Champlin 6-25	27N 4W 25 NW SE NW

Logging Program:

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

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

Quad Combo & ECS at TD for Mancos - Mudlog from 100' above top of Gallup to TD - mudlogger will call TD due to lack of control in the area.

Additional Information:

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

SJB (NM Central)

SEC 24-T27N-R4W

San Juan 27-4 Unit 155A

OH

Plan: Plan 1

Standard Planning Report

29 May, 2012



Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 24-T27N-R4W
Well: San Juan 27-4 Unit 155A
Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: Well San Juan 27-4 Unit 155A
TVD Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
MD Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project	SJB (NM Central), 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 Central 3002		Using geodetic scale factor

Site	SEC 24-T27N-R4W		
Site Position:		Northing:	2,022,490.51 ft
From:	Lat/Long	Easting:	218,674.08 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 33' 16.562 N
		Longitude:	107° 12' 28.224 W
		Grid Convergence:	-0.57 °

Well	San Juan 27-4 Unit 155A, 1117' FSL 988' FWL		
Well Position	+N/-S	0.0 ft	Northing: 2,022,490.51 ft
	+E/-W	0.0 ft	Easting: 218,674.08 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 33' 16.562 N
		Longitude:	107° 12' 28.224 W
		Ground Level:	7,170.0 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2011	2012/05/29	9.52
			Dip Angle (°)
			63.37
			Field Strength (nT)
			50,562

Design	Plan 1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction (°)
			303.00

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
750.0	6.00	303.00	749.5	8.5	-13.2	2.00	2.00	0.00	303.00	
2,604.5	6.00	303.00	2,593.8	114.1	-175.7	0.00	0.00	0.00	0.00	
2,804.5	0.00	0.00	2,793.4	119.8	-184.5	3.00	-3.00	0.00	180.00	
4,215.1	0.00	0.00	4,204.0	119.8	-184.5	0.00	0.00	0.00	0.00	SJ 27-4 #155A ICP
8,464.1	0.00	0.00	8,453.0	119.8	-184.5	0.00	0.00	0.00	0.00	SJ 27-4 #155A PCP



Scientific Drilling
Planning Report



Database: EDM 2003 21 Single User Db
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 24-T27N-R4W
Well: San Juan 27-4 Unit 155A
Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: Well San Juan 27-4 Unit 155A
TVD Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
MD Reference: GL 7170' & KB 15' @ 7185.0ft (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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.00	303.00	500.0	0.2	-0.4	0.4	2.00	2.00	0.00
600.0	3.00	303.00	599.9	2.1	-3.3	3.9	2.00	2.00	0.00
700.0	5.00	303.00	699.7	5.9	-9.1	10.9	2.00	2.00	0.00
750.0	6.00	303.00	749.5	8.5	-13.2	15.7	2.00	2.00	0.00
800.0	6.00	303.00	799.2	11.4	-17.5	20.9	0.00	0.00	0.00
900.0	6.00	303.00	898.6	17.1	-26.3	31.4	0.00	0.00	0.00
1,000.0	6.00	303.00	998.1	22.8	-35.1	41.8	0.00	0.00	0.00
1,100.0	6.00	303.00	1,097.5	28.5	-43.8	52.3	0.00	0.00	0.00
1,200.0	6.00	303.00	1,197.0	34.2	-52.6	62.7	0.00	0.00	0.00
1,300.0	6.00	303.00	1,296.4	39.9	-61.4	73.2	0.00	0.00	0.00
1,400.0	6.00	303.00	1,395.9	45.6	-70.1	83.6	0.00	0.00	0.00
1,500.0	6.00	303.00	1,495.3	51.2	-78.9	94.1	0.00	0.00	0.00
1,600.0	6.00	303.00	1,594.8	56.9	-87.7	104.5	0.00	0.00	0.00
1,700.0	6.00	303.00	1,694.2	62.6	-96.4	115.0	0.00	0.00	0.00
1,800.0	6.00	303.00	1,793.7	68.3	-105.2	125.4	0.00	0.00	0.00
1,900.0	6.00	303.00	1,893.2	74.0	-114.0	135.9	0.00	0.00	0.00
2,000.0	6.00	303.00	1,992.6	79.7	-122.7	146.4	0.00	0.00	0.00
2,100.0	6.00	303.00	2,092.1	85.4	-131.5	156.8	0.00	0.00	0.00
2,200.0	6.00	303.00	2,191.5	91.1	-140.3	167.3	0.00	0.00	0.00
2,286.0	6.00	303.00	2,277.0	96.0	-147.8	176.2	0.00	0.00	0.00
Nacimiento									
2,300.0	6.00	303.00	2,291.0	96.8	-149.0	177.7	0.00	0.00	0.00
2,400.0	6.00	303.00	2,390.4	102.5	-157.8	188.2	0.00	0.00	0.00
2,500.0	6.00	303.00	2,489.9	108.2	-166.6	198.6	0.00	0.00	0.00
2,600.0	6.00	303.00	2,589.3	113.9	-175.3	209.1	0.00	0.00	0.00
2,604.5	6.00	303.00	2,593.8	114.1	-175.7	209.5	0.00	0.00	0.00
2,700.0	3.13	303.00	2,689.0	118.3	-182.1	217.1	3.00	-3.00	0.00
2,800.0	0.13	303.00	2,788.9	119.8	-184.5	220.0	3.00	-3.00	0.00
2,804.5	0.00	0.00	2,793.4	119.8	-184.5	220.0	3.00	-3.00	0.00
2,900.0	0.00	0.00	2,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,000.0	0.00	0.00	2,988.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,188.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,450.1	0.00	0.00	3,439.0	119.8	-184.5	220.0	0.00	0.00	0.00
Ojo Alamo									
3,500.0	0.00	0.00	3,488.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,588.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,604.1	0.00	0.00	3,593.0	119.8	-184.5	220.0	0.00	0.00	0.00
Kirtland									
3,686.1	0.00	0.00	3,675.0	119.8	-184.5	220.0	0.00	0.00	0.00
Fruitland									
3,700.0	0.00	0.00	3,688.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,788.9	119.8	-184.5	220.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,988.9	119.8	-184.5	220.0	0.00	0.00	0.00

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Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 24-T27N-R4W
Well: San Juan 27-4 Unit 155A
Wellbore: OH
Design: Plan 1

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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)
4,034.1	0.00	0.00	4,023.0	119.8	-184.5	220.0	0.00	0.00	0.00
Pictured Cliffs									
4,100.0	0.00	0.00	4,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,115.1	0.00	0.00	4,104.0	119.8	-184.5	220.0	0.00	0.00	0.00
Lewis									
4,200.0	0.00	0.00	4,188.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,215.1	0.00	0.00	4,204.0	119.8	-184.5	220.0	0.00	0.00	0.00
Intermediate Casing									
4,300.0	0.00	0.00	4,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,498.1	0.00	0.00	4,487.0	119.8	-184.5	220.0	0.00	0.00	0.00
Huerfano Bentonite									
4,500.0	0.00	0.00	4,488.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,588.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,688.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,788.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
4,998.1	0.00	0.00	4,987.0	119.8	-184.5	220.0	0.00	0.00	0.00
Chacra									
5,000.0	0.00	0.00	4,988.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,188.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,488.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,588.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,601.1	0.00	0.00	5,590.0	119.8	-184.5	220.0	0.00	0.00	0.00
Upper Cliff House									
5,700.0	0.00	0.00	5,688.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,747.1	0.00	0.00	5,738.0	119.8	-184.5	220.0	0.00	0.00	0.00
Massive Cliff House									
5,800.0	0.00	0.00	5,788.9	119.8	-184.5	220.0	0.00	0.00	0.00
5,876.1	0.00	0.00	5,865.0	119.8	-184.5	220.0	0.00	0.00	0.00
Menefee									
5,900.0	0.00	0.00	5,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,988.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,150.1	0.00	0.00	6,139.0	119.8	-184.5	220.0	0.00	0.00	0.00
Point Lookout									
6,200.0	0.00	0.00	6,188.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,488.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,588.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,688.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,717.1	0.00	0.00	6,706.0	119.8	-184.5	220.0	0.00	0.00	0.00
Mancos									
6,800.0	0.00	0.00	6,788.9	119.8	-184.5	220.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,988.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,188.9	119.8	-184.5	220.0	0.00	0.00	0.00

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 24-T27N-R4W
Well: San Juan 27-4 Unit 155A
Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference: Well San Juan 27-4 Unit 155A
TVD Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
MD Reference: GL 7170' & KB 15' @ 7185.0ft (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)
7,300.0	0.00	0.00	7,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,348.1	0.00	0.00	7,337.0	119.8	-184.5	220.0	0.00	0.00	0.00
Upper Gallup									
7,400.0	0.00	0.00	7,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,488.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,588.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,688.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,788.9	119.8	-184.5	220.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,888.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,988.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,088.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,158.1	0.00	0.00	8,147.0	119.8	-184.5	220.0	0.00	0.00	0.00
Greenhorn									
8,200.0	0.00	0.00	8,188.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,214.1	0.00	0.00	8,203.0	119.8	-184.5	220.0	0.00	0.00	0.00
Graneros									
8,258.1	0.00	0.00	8,247.0	119.8	-184.5	220.0	0.00	0.00	0.00
Two Wells									
8,300.0	0.00	0.00	8,288.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,328.1	0.00	0.00	8,317.0	119.8	-184.5	220.0	0.00	0.00	0.00
Paguate									
8,366.1	0.00	0.00	8,355.0	119.8	-184.5	220.0	0.00	0.00	0.00
Upper Cubero									
8,400.0	0.00	0.00	8,388.9	119.8	-184.5	220.0	0.00	0.00	0.00
8,409.1	0.00	0.00	8,398.0	119.8	-184.5	220.0	0.00	0.00	0.00
Lower Cubero									
8,430.1	0.00	0.00	8,419.0	119.8	-184.5	220.0	0.00	0.00	0.00
Oak Canyon									
8,464.1	0.00	0.00	8,453.0	119.8	-184.5	220.0	0.00	0.00	0.00
Encinal - Production Casing									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 27-4 #155A ICP	0.00	0.00	4,204.0	119.8	-184.5	2,022,612.17	218,490.77	36° 33' 17.747 N	107° 12' 30.485 W
- hit/miss target									
- plan hits target center									
- Point									
SJ 27-4 #155A PCP	0.00	0.00	8,453.0	119.8	-184.5	2,022,612.17	218,490.77	36° 33' 17.747 N	107° 12' 30.485 W
- hit/miss target									
- plan hits target center									
- Point									

Database: EDM 2003.21 Single User Db
Company: ConocoPhillips
Project: SJB (NM Central)
Site: SEC 24-T27N-R4W
Well: San Juan 27-4 Unit 155A
Wellbore: OH
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well San Juan 27-4 Unit 155A
GL 7170' & KB 15' @ 7185.0ft (AWS 711)
GL 7170' & KB 15' @ 7185.0ft (AWS 711)
True
Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,464.1	8,453.0	Production Casing	4-1/2	6-1/4
4,215.1	4,204.0	Intermediate Casing	7	8-3/4
200.0	200.0	Surface Casing	9-5/8	12-1/4

Formations

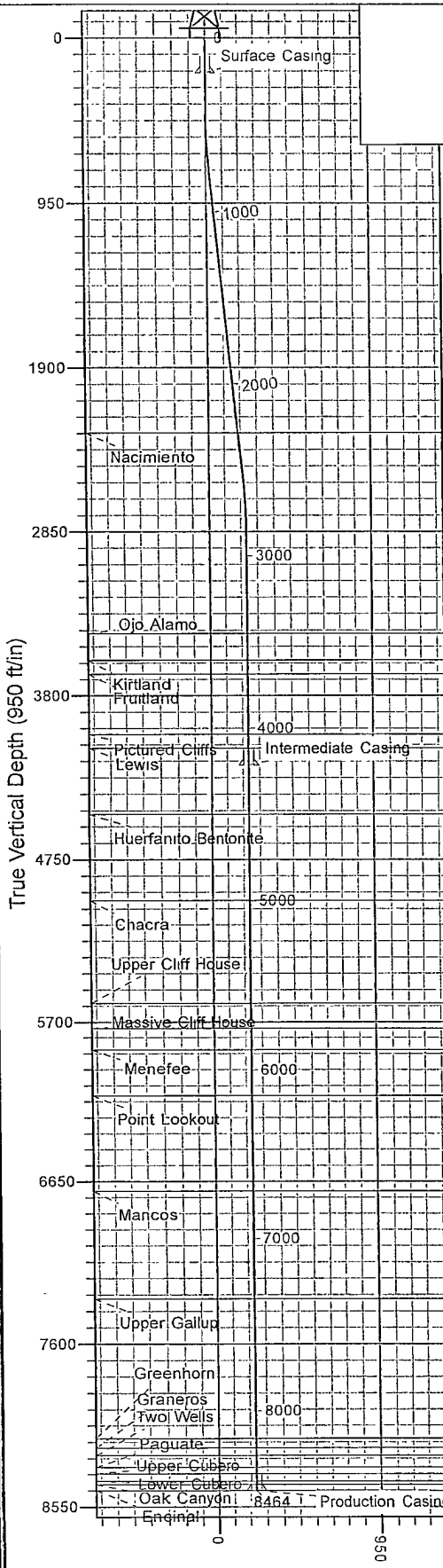
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,286.0	2,277.0	Nacimiento		0.00	
3,450.1	3,439.0	Ojo Alamo		0.00	
3,604.1	3,593.0	Kirtland		0.00	
3,686.1	3,675.0	Fruitland		0.00	
4,034.1	4,023.0	Pictured Cliffs		0.00	
4,115.1	4,104.0	Lewis		0.00	
4,498.1	4,487.0	Huerfanito Bentonite		0.00	
4,998.1	4,987.0	Chacra		0.00	
5,601.1	5,590.0	Upper Cliff House		0.00	
5,747.1	5,736.0	Massive Cliff House		0.00	
5,876.1	5,865.0	Menefee		0.00	
6,150.1	6,139.0	Point Lookout		0.00	
6,717.1	6,706.0	Mancos		0.00	
7,348.1	7,337.0	Upper Gallup		0.00	
8,158.1	8,147.0	Greenhorn		0.00	
8,214.1	8,203.0	Graneros		0.00	
8,258.1	8,247.0	Two Wells		0.00	
8,328.1	8,317.0	Paguate		0.00	
8,366.1	8,355.0	Upper Cubero		0.00	
8,409.1	8,398.0	Lower Cubero		0.00	
8,430.1	8,419.0	Oak Canyon		0.00	
8,464.1	8,453.0	Encinal		0.00	



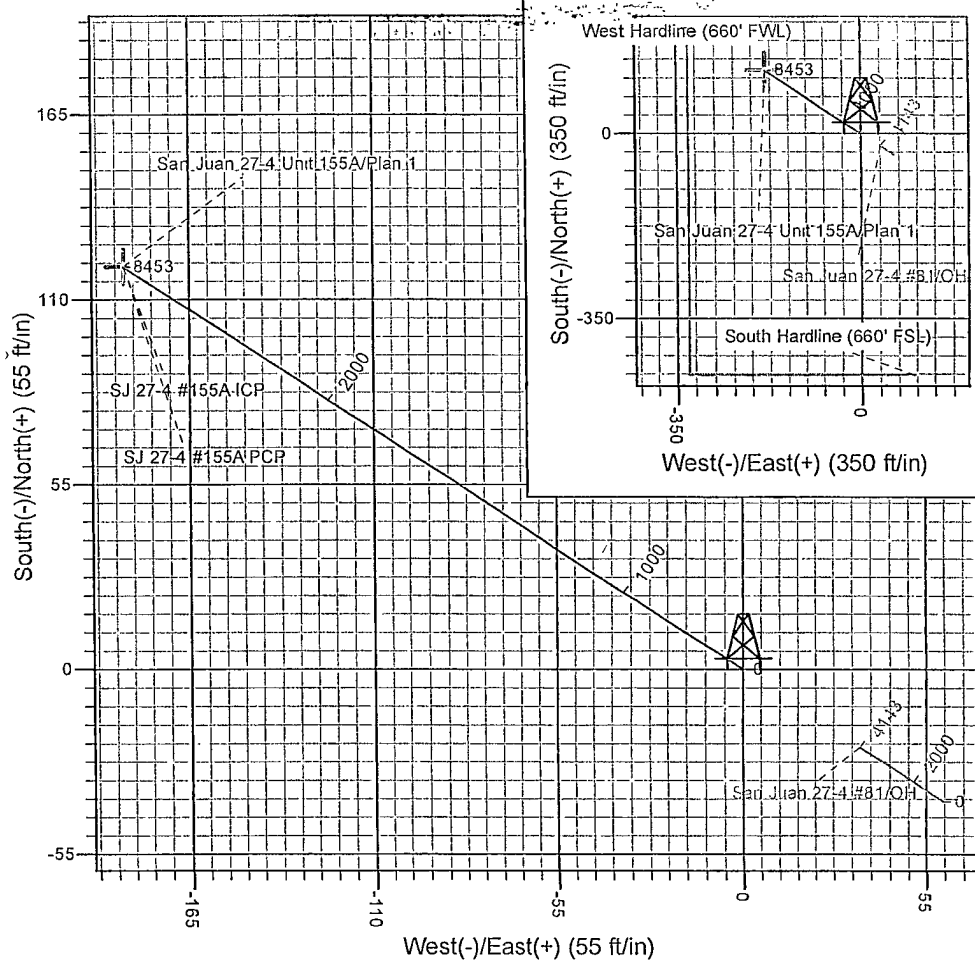
T
 M Azimuths to True North
 Magnetic North 9.52°
 Magnetic Field
 Strength 50562 3nT
 Dip Angle: 63.37°
 Date: 2012/05/29
 Model: BGGM2011

WELL DETAILS: San Juan 27-4 Unit 155A
 GL 7170' & KB 15' @ 7185.0ft (AWS 711)
 Ground Level: 7170.0

Northing 2022490.51 Easting 218674.08 Latitude 36° 33' 16.562 N Longitude 107° 12' 28.224 W



Vertical Section at 303.00° (950 ft/in)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0	
3	750.0	6.00	303.00	749.5	8.5	-13.2	2.00	303.00	15.7	
4	2604.5	6.00	303.00	2593.8	114.1	-175.7	0.00	0.00	209.5	
5	2804.5	0.00	0.00	2793.4	119.8	-184.5	3.00	180.00	220.0	
6	4215.1	0.00	0.00	4204.0	119.8	-184.5	0.00	0.00	220.0	SJ 27-4 #155A ICP
7	8464.1	0.00	0.00	8453.0	119.8	-184.5	0.00	0.00	220.0	SJ 27-4 #155A PCP

Date: 11:27, May 29 2012

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well San Juan 27-4 Unit 155A, True North
 Vertical (TVD) Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: GL 7170' & KB 15' @ 7185.0ft (AWS 711)
 Calculation Method: Minimum Curvature

PROJECT DETAILS: SJB (NM Central)
 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