

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 25 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-079527 Unit Reporting Number NMNM-78408A-MV	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name San Juan 27-4 Unit 9. Well Number 135B RCVD APR 13 '11 OIL CONS. DIV.	
4. Location of Well Surface: Unit G(SEN), 1947' FNL & 1538' FEL Bottomhole: Unit H(SEN), 1885' FNL & 710' FEL Surface: Latitude: 36.531799° N (NAD83) Longitude: 107.199245° W Bottomhole: Latitude: 36.531985° N (NAD83) Longitude: 107.196428° W	10. Field, Pool, Wildcat DIST. 3 Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 36, T27N, R4W API # 30-039- 31028	
14. Distance in Miles from Nearest Town 89.2 Miles from Bloomfield, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	17. Acres Assigned to Well 320 Acres (MV/DK) E2	
16. Acres in Lease 1,280 Acres	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52.2' from San Juan 27-4 #135M (MV/DK)	
19. Proposed Depth 8487'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7275' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Technician)	<u>2-25-11</u> Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 4/5/11

Archaeological Report attached A gas recovery unit may or may not be used on this location.

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 3 Bond Numbers NMB-000015 and NMB-000089

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".
APR 29 2011 NMOC
Ar

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and "As Drilled" plat

PC

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, 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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FEB 25 2011

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

Farmington Field Office

Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION

¹ API Number 30-039-31028	² Pool Code 71599/72319	³ Pool Name Blanco Basin DAKOTA / MESAVERDE
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4 UNIT	⁶ Well Number 135B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 7275

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	36	27-N	4-W		1947	NORTH	1538	EAST	RIO ARRIBA

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	36	27-N	4-W		1885	NORTH	710	EAST	RIO ARRIBA

¹² Dedicated Acres 320.00E/2	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

¹⁶ S 89°14'55" W	5207.7' (R)	GLO 1917	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Brandie Blakley</i> Signature Brandie Blakley Printed Name Staff Regulatory Tech Title and E-mail Address 2/17/2011 Date
WELL FLAG NAD 83 LAT: 36.531799° N LONG: 107.199245° W NAD 27 LAT: 36°31.907306' N LONG: 107°11.918905' W	N 84°56'18" E 830.6'	5280.0' (R) 5282.0' (N)	
BOTTOM HOLE NAD 83 LAT: 36.531985° N LONG: 107.196428° W NAD 27 LAT: 36°31.918480' N LONG: 107°11.749847' W	710'	1538'	
E/2 DEDICATED ACREAGE USA SF-079527 SECTION 36, T-27-N, R-4-W			
			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: 6/2/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 135B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9053				AFE \$: 1,695,834.88	
Field Name: SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface							
Datum Code: NAD 27				Directional			
Latitude: 36.531788	Longitude: -107.198647	X:	Y:	Section: 36	Range: 004W		
Footage X: 1538 FEL	Footage Y: 1947 FNL	Elevation: 7275	(FT)	Township: 027N			
Tolerance:							
Location: Bottom Hole							
Datum Code: NAD 27				Directional			
Latitude: 36.531974	Longitude: -107.195831	X:	Y:	Section: 36	Range: 004W		
Footage X: 710 FEL	Footage Y: 1885 FNL	Elevation:	(FT)	Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7290 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	202	7088		☐			12-1/4 hole. 215' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	2394	4896		☐			
OJO ALAMO	3546	3744		☐			
KIRTLAND	3664	3626		☐			
FRUITLAND	3770	3520		☐			Possible Gas
PICTURED CLIFFS	4074	3216		☐	264		
LEWIS	4154	3136		☐			
Intermediate Casing	4254	3036		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 988 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4586	2704		☐			
CHACRA	5054	2236		☐			
UPPER CLIFF HOUSE	5768	1522		☐			Gas
MASSIVE CLIFF HOUSE	5810	1480		☐	868		Gas
MENEFEE	5884	1406		☐			
POINT LOOKOUT	6204	1086		☐			
MANCOS	6744	546		☐			
UPPER GALLUP	7357	-67		☐			
GREENHORN	8170	-880		☐			
GRANEROS	8238	-948		☐			
TWO WELLS	8280	-990		☐	3404		Gas
PAGUATE	8350	-1060		☐			
UPPER CUBERO	8382	-1092		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 27-4 UNIT 135B

DEVELOPMENT

LOWER CUBERO	8422	-1132	☐	
ENCINAL	8486	-1196	☐	
Total Depth	8487	-1197	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 / L-80, LTC casing. Cement w/ 576 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SAN JUAN 27-4 UNIT 150	

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
mud log ~100' above grhn to td. Perf 38' above td. Mud logger will call td.	

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

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #135B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7290.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7290.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #135B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Wells		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	San Juan 27 Wells		
Site Position:		Northing:	2,032,945.19 ft
From:	Lat/Long	Easting:	677,235.72 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 35' 7.965 N
		Longitude:	107° 13' 46.766 W
		Grid Convergence:	0.36 °

Well:	SJ 27-4 #135B		
Well Position	+N-S	0.0 ft	Northing:
	+E-W	0.0 ft	Easting:
Position Uncertainty	15.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 31' 54.438 N
		Longitude:	107° 11' 55.134 W
		Ground Level:	7,275.0 ft

Wellbore:	Principal Wellbore		
Magnetics	Model Name	Sample Date	Declination
	BGGM2008	11/8/2009	(°)
			9.81
			Dip Angle
			(°)
			63.48
			Field Strength
			(nT)
			50,864

Design:	Plan #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			85.31

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,686.8	21.74	85.31	1,660.9	16.7	203.0	2.00	2.00	0.00	85.31	
3,012.9	21.74	85.31	2,892.7	56.8	692.5	0.00	0.00	0.00	0.00	
3,737.4	0.00	0.00	3,600.0	67.9	827.8	3.00	-3.00	0.00	180.00	SJ 27-4 #135B - EOT
4,391.4	0.00	0.00	4,254.0	67.9	827.8	0.00	0.00	0.00	0.00	SJ 27-4 #135B - ICP
8,624.4	0.00	0.00	8,487.0	67.9	827.8	0.00	0.00	0.00	0.00	SJ 27-4 #135B - PCP

ConocoPhillips or its affiliates

Planning Report

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Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 7290.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7290.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #135B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #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)
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
215.0	0.00	0.00	215.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8" Csg Shoe									
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
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	85.31	700.0	0.1	1.7	1.7	2.00	2.00	0.00
800.0	4.00	85.31	799.8	0.6	7.0	7.0	2.00	2.00	0.00
900.0	6.00	85.31	899.5	1.3	15.6	15.7	2.00	2.00	0.00
1,000.0	8.00	85.31	998.7	2.3	27.8	27.9	2.00	2.00	0.00
1,100.0	10.00	85.31	1,097.5	3.6	43.4	43.5	2.00	2.00	0.00
1,200.0	12.00	85.31	1,195.6	5.1	62.4	62.6	2.00	2.00	0.00
1,300.0	14.00	85.31	1,293.1	7.0	84.8	85.1	2.00	2.00	0.00
1,400.0	16.00	85.31	1,389.6	9.1	110.6	111.0	2.00	2.00	0.00
1,500.0	18.00	85.31	1,485.3	11.5	139.7	140.2	2.00	2.00	0.00
1,600.0	20.00	85.31	1,579.8	14.1	172.2	172.8	2.00	2.00	0.00
1,686.8	21.74	85.31	1,660.9	16.7	203.0	203.7	2.00	2.00	0.00
1,700.0	21.74	85.31	1,673.2	17.1	207.9	208.6	0.00	0.00	0.00
1,800.0	21.74	85.31	1,766.1	20.1	244.8	245.6	0.00	0.00	0.00
1,900.0	21.74	85.31	1,859.0	23.1	281.7	282.6	0.00	0.00	0.00
2,000.0	21.74	85.31	1,951.8	26.1	318.6	319.7	0.00	0.00	0.00
2,100.0	21.74	85.31	2,044.7	29.2	355.5	356.7	0.00	0.00	0.00
2,200.0	21.74	85.31	2,137.6	32.2	392.4	393.7	0.00	0.00	0.00
2,300.0	21.74	85.31	2,230.5	35.2	429.3	430.8	0.00	0.00	0.00
2,400.0	21.74	85.31	2,323.4	38.2	466.2	467.8	0.00	0.00	0.00
2,476.0	21.74	85.31	2,394.0	40.5	494.3	496.0	0.00	0.00	0.00
Nacimiento									
2,500.0	21.74	85.31	2,416.3	41.3	503.2	504.8	0.00	0.00	0.00
2,600.0	21.74	85.31	2,509.2	44.3	540.1	541.9	0.00	0.00	0.00
2,700.0	21.74	85.31	2,602.1	47.3	577.0	578.9	0.00	0.00	0.00
2,800.0	21.74	85.31	2,695.0	50.4	613.9	615.9	0.00	0.00	0.00
2,900.0	21.74	85.31	2,787.9	53.4	650.8	653.0	0.00	0.00	0.00
3,000.0	21.74	85.31	2,880.7	56.4	687.7	690.0	0.00	0.00	0.00
3,012.9	21.74	85.31	2,892.7	56.8	692.5	694.8	0.00	0.00	0.00
3,100.0	19.12	85.31	2,974.3	59.3	722.8	725.2	3.00	-3.00	0.00
3,200.0	16.12	85.31	3,069.6	61.8	752.9	755.5	3.00	-3.00	0.00
3,300.0	13.12	85.31	3,166.4	63.8	778.1	780.7	3.00	-3.00	0.00
3,400.0	10.12	85.31	3,264.3	65.5	798.2	800.9	3.00	-3.00	0.00
3,500.0	7.12	85.31	3,363.2	66.7	813.1	815.8	3.00	-3.00	0.00
3,600.0	4.12	85.31	3,462.7	67.5	822.9	825.6	3.00	-3.00	0.00
3,683.4	1.62	85.31	3,546.0	67.8	827.0	829.8	3.00	-3.00	0.00
Ojo Alamo									
3,700.0	1.12	85.31	3,562.6	67.9	827.4	830.2	3.00	-3.00	0.00
3,737.4	0.00	0.00	3,600.0	67.9	827.8	830.6	3.00	-3.00	0.00
3,800.0	0.00	0.00	3,662.6	67.9	827.8	830.6	0.00	0.00	0.00
3,801.4	0.00	0.00	3,664.0	67.9	827.8	830.6	0.00	0.00	0.00
Kirtland									
3,900.0	0.00	0.00	3,762.6	67.9	827.8	830.6	0.00	0.00	0.00
3,907.4	0.00	0.00	3,770.0	67.9	827.8	830.6	0.00	0.00	0.00
Fruitland									

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #135B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7290.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7290.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #135B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #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)
4,000.0	0.00	0.00	3,862.6	67.9	827.8	830.6	0.00	0.00	0.00
4,100.0	0.00	0.00	3,962.6	67.9	827.8	830.6	0.00	0.00	0.00
4,200.0	0.00	0.00	4,062.6	67.9	827.8	830.6	0.00	0.00	0.00
4,211.4	0.00	0.00	4,074.0	67.9	827.8	830.6	0.00	0.00	0.00
Pictured Cliffs									
4,291.4	0.00	0.00	4,154.0	67.9	827.8	830.6	0.00	0.00	0.00
Lewis									
4,300.0	0.00	0.00	4,162.6	67.9	827.8	830.6	0.00	0.00	0.00
4,391.4	0.00	0.00	4,254.0	67.9	827.8	830.6	0.00	0.00	0.00
7" Csg Shoe									
4,400.0	0.00	0.00	4,262.6	67.9	827.8	830.6	0.00	0.00	0.00
4,500.0	0.00	0.00	4,362.6	67.9	827.8	830.6	0.00	0.00	0.00
4,600.0	0.00	0.00	4,462.6	67.9	827.8	830.6	0.00	0.00	0.00
4,700.0	0.00	0.00	4,562.6	67.9	827.8	830.6	0.00	0.00	0.00
4,723.4	0.00	0.00	4,586.0	67.9	827.8	830.6	0.00	0.00	0.00
Huerfano Bentonite									
4,800.0	0.00	0.00	4,662.6	67.9	827.8	830.6	0.00	0.00	0.00
4,900.0	0.00	0.00	4,762.6	67.9	827.8	830.6	0.00	0.00	0.00
5,000.0	0.00	0.00	4,862.6	67.9	827.8	830.6	0.00	0.00	0.00
5,100.0	0.00	0.00	4,962.6	67.9	827.8	830.6	0.00	0.00	0.00
5,191.4	0.00	0.00	5,054.0	67.9	827.8	830.6	0.00	0.00	0.00
Chacra									
5,200.0	0.00	0.00	5,062.6	67.9	827.8	830.6	0.00	0.00	0.00
5,300.0	0.00	0.00	5,162.6	67.9	827.8	830.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,262.6	67.9	827.8	830.6	0.00	0.00	0.00
5,500.0	0.00	0.00	5,362.6	67.9	827.8	830.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,462.6	67.9	827.8	830.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,562.6	67.9	827.8	830.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,662.6	67.9	827.8	830.6	0.00	0.00	0.00
5,900.0	0.00	0.00	5,762.6	67.9	827.8	830.6	0.00	0.00	0.00
5,905.4	0.00	0.00	5,768.0	67.9	827.8	830.6	0.00	0.00	0.00
Upper Cliffhouse									
5,947.4	0.00	0.00	5,810.0	67.9	827.8	830.6	0.00	0.00	0.00
Mass. Cliffhouse									
6,000.0	0.00	0.00	5,862.6	67.9	827.8	830.6	0.00	0.00	0.00
6,021.4	0.00	0.00	5,884.0	67.9	827.8	830.6	0.00	0.00	0.00
Menefee									
6,100.0	0.00	0.00	5,962.6	67.9	827.8	830.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,062.6	67.9	827.8	830.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,162.6	67.9	827.8	830.6	0.00	0.00	0.00
6,341.4	0.00	0.00	6,204.0	67.9	827.8	830.6	0.00	0.00	0.00
Pt. Lookout									
6,400.0	0.00	0.00	6,262.6	67.9	827.8	830.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,362.6	67.9	827.8	830.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,462.6	67.9	827.8	830.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,562.6	67.9	827.8	830.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,662.6	67.9	827.8	830.6	0.00	0.00	0.00
6,881.4	0.00	0.00	6,744.0	67.9	827.8	830.6	0.00	0.00	0.00
Mancos Shale									
6,900.0	0.00	0.00	6,762.6	67.9	827.8	830.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,862.6	67.9	827.8	830.6	0.00	0.00	0.00
7,100.0	0.00	0.00	6,962.6	67.9	827.8	830.6	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #135B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 7290.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7290.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #135B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #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)
7,200.0	0.00	0.00	7,062.6	67.9	827.8	830.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,162.6	67.9	827.8	830.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,262.6	67.9	827.8	830.6	0.00	0.00	0.00
7,494.4	0.00	0.00	7,357.0	67.9	827.8	830.6	0.00	0.00	0.00
Gallup									
7,500.0	0.00	0.00	7,362.6	67.9	827.8	830.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,462.6	67.9	827.8	830.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,562.6	67.9	827.8	830.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,662.6	67.9	827.8	830.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,762.6	67.9	827.8	830.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,862.6	67.9	827.8	830.6	0.00	0.00	0.00
8,100.0	0.00	0.00	7,962.6	67.9	827.8	830.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,062.6	67.9	827.8	830.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,162.6	67.9	827.8	830.6	0.00	0.00	0.00
8,307.4	0.00	0.00	8,170.0	67.9	827.8	830.6	0.00	0.00	0.00
Greenhorn									
8,375.4	0.00	0.00	8,238.0	67.9	827.8	830.6	0.00	0.00	0.00
Graneros									
8,400.0	0.00	0.00	8,262.6	67.9	827.8	830.6	0.00	0.00	0.00
8,417.4	0.00	0.00	8,280.0	67.9	827.8	830.6	0.00	0.00	0.00
Two Wells									
8,487.4	0.00	0.00	8,350.0	67.9	827.8	830.6	0.00	0.00	0.00
Paguete									
8,500.0	0.00	0.00	8,362.6	67.9	827.8	830.6	0.00	0.00	0.00
8,519.4	0.00	0.00	8,382.0	67.9	827.8	830.6	0.00	0.00	0.00
Upper Cubero									
8,559.4	0.00	0.00	8,422.0	67.9	827.8	830.6	0.00	0.00	0.00
Lower Cubero									
8,600.0	0.00	0.00	8,462.6	67.9	827.8	830.6	0.00	0.00	0.00
8,623.4	0.00	0.00	8,486.0	67.9	827.8	830.6	0.00	0.00	0.00
Encinal									
8,624.4	0.00	0.00	8,487.0	67.9	827.8	830.6	0.00	0.00	0.00
TD - 4.5" Csg Shoe									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 27-4 #135B - ICP	0.00	0.00	4,254.0	67.9	827.8	2,013,507.33	687,296.29	36° 31' 55.109 N	107° 11' 44.991 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 27-4 #135B - PCP	0.00	0.00	8,487.0	67.9	827.8	2,013,507.36	687,296.25	36° 31' 55.109 N	107° 11' 44.991 W
- plan hits target center									
- Circle (radius 100.0)									
SJ 27-4 #135B - EOT	0.00	0.00	3,600.0	67.9	827.8	2,013,507.36	687,296.25	36° 31' 55.109 N	107° 11' 44.991 W
- plan hits target center									
- Circle (radius 100.0)									

ConocoPhillips or its affiliates
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #135B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 7290.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 7290.0ft (Original Well Elev)
Site:	San Juan 27 Wells	North Reference:	True
Well:	SJ 27-4 #135B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,391.4	4,254.0	7" Csg Shoe	7	8-3/4
215.0	215.0	9 5/8" Csg Shoe	9-5/8	12-1/4
8,624.4	8,487.0	4.5" Csg Shoe	4-1/2	6-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,191.4	5,054.0	Chacra		0.00	
8,559.4	8,422.0	Lower Cubero		0.00	
6,021.4	5,884.0	Menefee		0.00	
3,801.4	3,664.0	Kirtland		0.00	
8,519.4	8,382.0	Upper Cubero		0.00	
7,494.4	7,357.0	Gallup		0.00	
8,623.4	8,486.0	Encinal		0.00	
8,375.4	8,238.0	Graneros		0.00	
4,723.4	4,586.0	Huerfanito Bentonite		0.00	
4,211.4	4,074.0	Pictured Cliffs		0.00	
3,907.4	3,770.0	Fruitland		0.00	
8,307.4	8,170.0	Greenhorn		0.00	
5,947.4	5,810.0	Mass. Cliffhouse		0.00	
3,683.4	3,546.0	Ojo Alamo		0.00	
4,291.4	4,154.0	Lewis		0.00	
8,624.4	8,487.0	TD		0.00	
8,417.4	8,280.0	Two Wells		0.00	
5,905.4	5,768.0	Upper Cliffhouse		0.00	
6,341.4	6,204.0	Pt. Lookout		0.00	
8,487.4	8,350.0	Paguate		0.00	
2,476.0	2,394.0	Nacimiento		0.00	
6,881.4	6,744.0	Mancos Shale		0.00	

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #135B

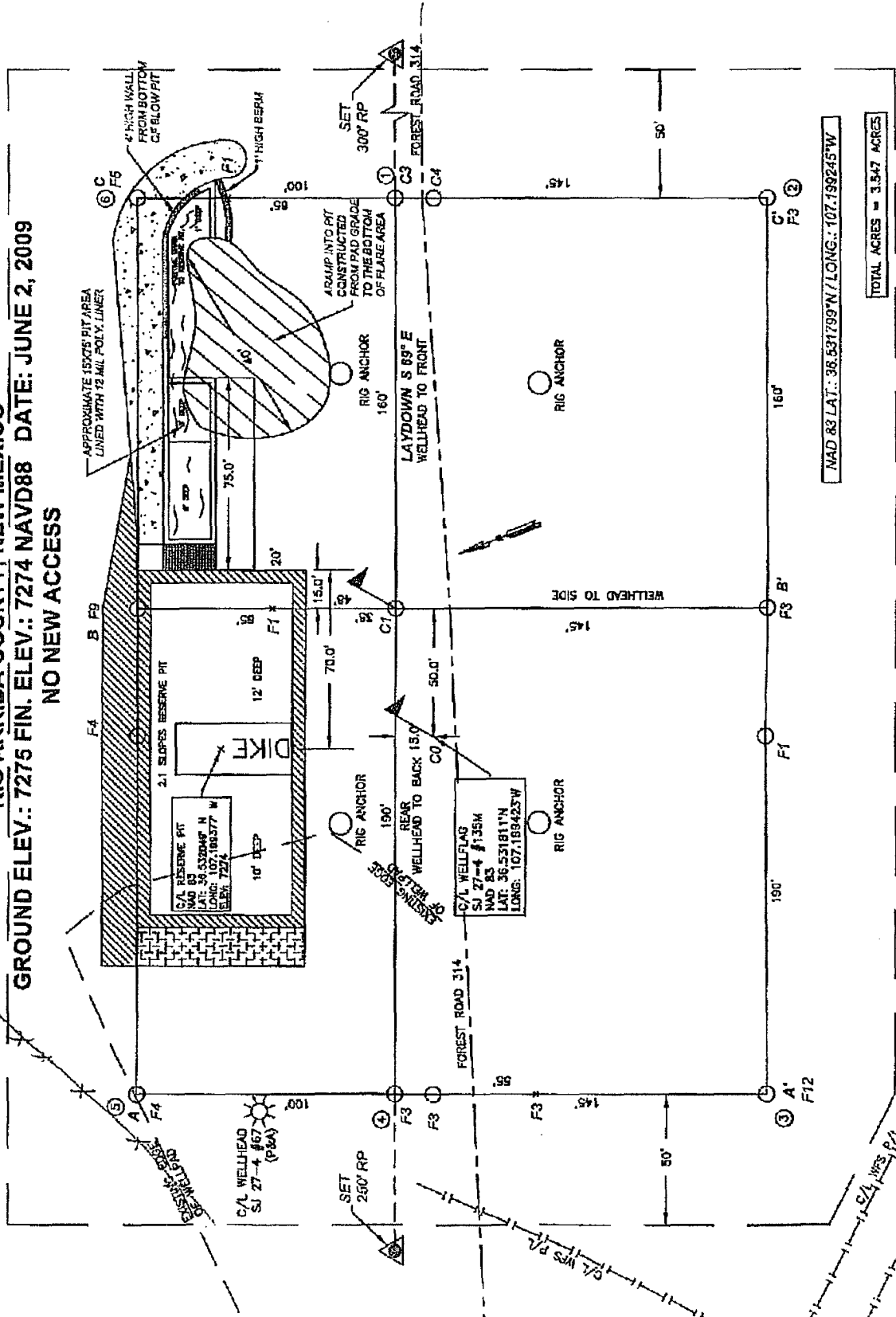
1947' FNL, 1538' FEL

SECTION 36, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEV.: 7275 FIN. ELEV.: 7274 NAVD88 DATE: JUNE 2, 2009

NO NEW ACCESS



NAD 83 LAT.: 36.531799°N / LONG.: 107.199245°W

TOTAL ACRES = 3.847 ACRES

NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

P.O. BOX 325
BLOOMFIELD, NM 87413
PHONE: (505) 382-7707

CCI
CHEMVAULT CONSULTING INC.

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #135B

1947' FNL, 1538' FEL

SECTION 36, T-27-N, R-4-W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

NAD 83 LAT.: 36.531799°N LONG.: 107.199245°W

GROUND ELEV.: 7275 FIN. ELEV.: 7274 NAVD88

NO NEW ACCESS

**FROM THE INTERSECTION OF HWY. 550 AND HWY. 64 IN
BLOOMFIELD, N.M.:**

- **GO EAST ON HWY. 64 FOR 60.4 MILES (TO MILES POST 124.7) AND TURN RIGHT ON STATE HWY 537.**
- **GO 27.0 MILES SOUTH ON HWY 537. TURN RIGHT ONTO FOREST ROAD 314, HEAD NORTH INTO CEDAR CANYON.**
- **GO 1.8 MILES NORTH ON FOREST ROAD 314 TO A PLUGGED AND ABANDONED WELL 27-4 #67. THE SAN JUAN 27-4 #135B IS STAKED AS A TWIN.**