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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 04 2011

Farmington Field Office

Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACKS

1a. Type of Work DRILL	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATION ON FEDERAL AND INDIAN LANDS	5. Lease Number USA NM-33054 Unit Reporting Number If Indian, All. or Tribe
1b. Type of Well GAS		
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Trail Canyon 9. Well Number 4A
4. Location of Well Surf: Unit N(SW)SW, 1191' FSL & 1449' FWL BH: Unit M(SW)SW, 915' FSL & 950' FWL Surf: Latitude: 36.9947845° N (NAD83) Longitude: 107.7012371° W BH: Latitude: 36.9940561° N (NAD83) Longitude: 107.7031713° W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 8, T32N, R8W API # 30-045-35259
14. Distance in Miles from Nearest Town 25 Miles from Navajo Dam, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 915'		
16. Acres in Lease 375.07 Acres	17. Acres Assigned to Well 375.07 Acres	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 707' from BRO&G Trail Canyon 101S (FC)		
19. Proposed Depth 8301'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6648' 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>3-3-11</u> Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

MAY 17 2011

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

NMOC

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

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

RECEIVED

MAR 04 2011

☐ AMENDED REPORT

Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35259	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESA VERDE / DAKOTA
⁴ Property Code 18631	⁵ Property Name TRAIL CANYON	⁶ Well Number 4A
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6648

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
N	8	32 N	8 W		1191	SOUTH	1449	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	32 N	8 W	LOT 8	915	SOUTH	950	WEST	SAN JUAN

¹² Dedicated Acres 375.07 W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-3817
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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 N 89°58'34" E 2598.18' LOT 6 (12.91) N 12°30'04" E 432.54' N 12°30'04" E 2684.38' S 64°46'16" W 623.99' 1449' 950' N 11°36'33" E N 88°57'02" W 2591.00'	USA NM-33054 LOT 5 (13.83) SECTION 8 SURFACE LOCATION LAT: 36.9947845° N LONG: 107.7012371° W NAD 83 LAT: 36°59.68689' N LONG: 107°42.03729' W NAD 27 BOTTOM HOLE LOCATION LAT: 36.9940561° N LONG: 107.7031713° W NAD 83 LAT: 36°59.64319' N LONG: 107°42.15334' W NAD 27 1191' 2595.70'	S 89°53'44" E 2600.05' LOT 2 LOT 1 S 11°41'58" W 527.17' 2680.78' S 11°36'20" W	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. Signature: <i>Dollie L. Busse</i> Date: 4/23/10 Printed Name: Dollie L. Busse 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: 4/05/10 Signature and Seal of Professional Surveyor: <i>Marshall W. Linden</i> Certificate Number: 17078
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NOTE:
BEARINGS & DISTANCES SHOWN
ARE REFERENCED TO THE NEW
MEXICO COORDINATE SYSTEM,
WEST ZONE, NAD 83.

○ = SURFACE LOCATION
● = BOTTOM HOLE LOCATION

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

TRAIL CANYON 4A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9367				AFE \$: 974,249.38	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #:
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.994782	Longitude: -107.700622	X:	Y:	Section: 08		Range: 008W	
Footage X: 1449 FWL	Footage Y: 1191 FSL	Elevation: 6641	(FT)	Township: 032N			
Tolerance: 6648							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.994053	Longitude: -107.702556	X:	Y:	Section: 08		Range: 008W	
Footage X: 950 FWL	Footage Y: 915 FSL	Elevation:	(FT)	Township: 032N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6656 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6456		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	856	5800		☐			
OJO ALAMO	1980	4676		☐			
KIRTLAND	2136	4520		☐			
FRUITLAND	2937	3719		☐			Possible Gas
PICTURED CLIFFS	3554	3102		☐			
LEWIS	3680	2976		☐			
Intermediate Casing	3780	2876		☐			4017' MD: 8-3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 905 cu ft. Circulate cement to surface.
HUERFANITO BENTONITE	4342	2314		☐			
CHACRA	4814	1842		☐			
UPPER CLIFF HOUSE	5226	1430		☐			Gas; Est. Top Perf - 5228 (1428)
MASSIVE CLIFF HOUSE	5624	1032		☐	852		Gas; Cliffhouse is dry
MENEFEE	5658	998		☐			
POINT LOOKOUT	5914	742		☐			
MANCOS	6300	356		☐			
UPPER GALLUP	7265	-609		☐			
GREENHORN	8005	-1349		☐			
GRANEROS	8055	-1399		☐			
TWO WELLS	8119	-1463		☐	3526		Gas
PAGUATE	8167	-1511		☐			
UPPER CUBERO	8180	-1524		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

TRAIL CANYON 4A

DEVELOPMENT

LOWER CUBERO	8212	-1556	☐	Est. Btm Perf - 8274 (-1618) based on offset wells
ENCINAL	8254	-1598	☐	TD - 40' below T/ENCN
Total Depth	8294	-1638	☐	8531' MD: 6-1/4" hole. 4-1/2", 11.6 ppf, J-55, LTC casing. Cement with 614 cu ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Southern Ute 22-1	32N 8W 22 SW NE NE
Production	Trail Canyon 3	32N 8W 7 NE NE SE
Production	Susco 16 State 1E	32N 8W 16 SW NE NW
Production	Susco 16 State 1	32N 8W 16 NE SW SW

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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Cased Hole GR / CBL

Mudlog from 100' above top of GRHN to TD - mudlogger 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 Trail Canyon #4A
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6663.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6663.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Trail Canyon #4A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
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:	Other Named Wells		
Site Position:		Northing:	2,108,178.26 ft
From:	Lat/Long	Easting:	643,887.63 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33.793 N
		Longitude:	107° 20' 30.932 W
		Grid Convergence:	0.29 °

Well:	Trail Canyon #4A		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 59' 41.213 N
		Longitude:	107° 42' 2.237 W
		Ground Level:	6,648.0 ft

Wellbore:	Principal Wellbore		
Magnetics:	Model Name	Sample Date	Declination
	BGGM2010	4/11/2011	9.91
			Dip Angle
			63.73
			Field Strength
			50,898

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
			244.86

Plan Sections:										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
914.8	11.90	244.86	910.5	-26.1	-55.7	2.00	2.00	0.00	244.86	
3,444.9	11.90	244.86	3,386.3	-247.7	-527.8	0.00	0.00	0.00	0.00	
3,841.4	0.00	0.00	3,780.0	-265.1	-564.9	3.00	-3.00	0.00	180.00	Trail Canyon #4A - IC
8,355.4	0.00	0.00	8,294.0	-265.1	-564.9	0.00	0.00	0.00	0.00	Trail Canyon #4A - PC

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Trail Canyon #4A
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6663.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6663.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Trail Canyon #4A	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
Surface									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.60	244.86	400.0	-0.5	-1.0	1.1	2.00	2.00	0.00
500.0	3.60	244.86	499.9	-2.4	-5.1	5.7	2.00	2.00	0.00
600.0	5.60	244.86	599.6	-5.8	-12.4	13.7	2.00	2.00	0.00
700.0	7.60	244.86	698.9	-10.7	-22.8	25.2	2.00	2.00	0.00
800.0	9.60	244.86	797.8	-17.0	-36.3	40.1	2.00	2.00	0.00
859.2	10.78	244.86	856.0	-21.5	-45.8	50.6	2.00	2.00	0.00
Nacimiento									
900.0	11.60	244.86	896.0	-24.9	-53.0	58.5	2.00	2.00	0.00
914.8	11.90	244.86	910.5	-26.1	-55.7	61.5	2.00	2.00	0.00
1,000.0	11.90	244.86	993.9	-33.6	-71.6	79.1	0.00	0.00	0.00
1,100.0	11.90	244.86	1,091.8	-42.4	-90.3	99.7	0.00	0.00	0.00
1,200.0	11.90	244.86	1,189.6	-51.1	-108.9	120.3	0.00	0.00	0.00
1,300.0	11.90	244.86	1,287.5	-59.9	-127.6	140.9	0.00	0.00	0.00
1,400.0	11.90	244.86	1,385.3	-68.6	-146.2	161.5	0.00	0.00	0.00
1,500.0	11.90	244.86	1,483.2	-77.4	-164.9	182.1	0.00	0.00	0.00
1,600.0	11.90	244.86	1,581.0	-86.1	-183.6	202.8	0.00	0.00	0.00
1,700.0	11.90	244.86	1,678.9	-94.9	-202.2	223.4	0.00	0.00	0.00
1,800.0	11.90	244.86	1,776.7	-103.7	-220.9	244.0	0.00	0.00	0.00
1,900.0	11.90	244.86	1,874.6	-112.4	-239.5	264.6	0.00	0.00	0.00
2,000.0	11.90	244.86	1,972.4	-121.2	-258.2	285.2	0.00	0.00	0.00
2,007.7	11.90	244.86	1,980.0	-121.9	-259.6	286.8	0.00	0.00	0.00
Ojo Alamo									
2,100.0	11.90	244.86	2,070.3	-129.9	-276.8	305.8	0.00	0.00	0.00
2,167.2	11.90	244.86	2,136.0	-135.8	-289.4	319.7	0.00	0.00	0.00
Kirtland									
2,200.0	11.90	244.86	2,168.1	-138.7	-295.5	326.4	0.00	0.00	0.00
2,300.0	11.90	244.86	2,266.0	-147.4	-314.2	347.0	0.00	0.00	0.00
2,400.0	11.90	244.86	2,363.8	-156.2	-332.8	367.7	0.00	0.00	0.00
2,500.0	11.90	244.86	2,461.7	-165.0	-351.5	388.3	0.00	0.00	0.00
2,600.0	11.90	244.86	2,559.5	-173.7	-370.1	408.9	0.00	0.00	0.00
2,700.0	11.90	244.86	2,657.4	-182.5	-388.8	429.5	0.00	0.00	0.00
2,800.0	11.90	244.86	2,755.3	-191.2	-407.5	450.1	0.00	0.00	0.00
2,900.0	11.90	244.86	2,853.1	-200.0	-426.1	470.7	0.00	0.00	0.00
2,985.7	11.90	244.86	2,937.0	-207.5	-442.1	488.4	0.00	0.00	0.00
Fruitland									
3,000.0	11.90	244.86	2,951.0	-208.7	-444.8	491.3	0.00	0.00	0.00
3,100.0	11.90	244.86	3,048.8	-217.5	-463.4	511.9	0.00	0.00	0.00
3,200.0	11.90	244.86	3,146.7	-226.3	-482.1	532.6	0.00	0.00	0.00
3,300.0	11.90	244.86	3,244.5	-235.0	-500.8	553.2	0.00	0.00	0.00
3,400.0	11.90	244.86	3,342.4	-243.8	-519.4	573.8	0.00	0.00	0.00
3,444.9	11.90	244.86	3,386.3	-247.7	-527.8	583.0	0.00	0.00	0.00
3,500.0	10.24	244.86	3,440.4	-252.2	-537.4	593.6	3.00	-3.00	0.00
3,600.0	7.24	244.86	3,539.2	-258.7	-551.1	608.8	3.00	-3.00	0.00
3,614.9	6.80	244.86	3,554.0	-259.4	-552.8	610.6	3.00	-3.00	0.00
Pictured Cliffs									
3,700.0	4.24	244.86	3,638.7	-262.9	-560.2	618.8	3.00	-3.00	0.00
3,741.4	3.00	244.86	3,680.0	-264.0	-562.6	621.4	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Trail Canyon #4A
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6663.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6663.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Trail Canyon #4A	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)	
Lewis										
3,800.0	1.24	244.86	3,738.6	-264.9	-564.5	623.6	3.00	-3.00	0.00	
3,841.4	0.00	0.00	3,780.0	-265.1	-564.9	624.1	3.00	-3.00	0.00	
Intermediate - Trail Canyon #4A - ICP										
3,900.0	0.00	0.00	3,838.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,938.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,038.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,138.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,238.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,338.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,403.4	0.00	0.00	4,342.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Huerf. Bent.										
4,500.0	0.00	0.00	4,438.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,538.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,638.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,738.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
4,875.4	0.00	0.00	4,814.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Chacra										
4,900.0	0.00	0.00	4,838.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,938.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,038.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,138.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,287.4	0.00	0.00	5,226.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Upper Cliffhouse										
5,300.0	0.00	0.00	5,238.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,338.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,438.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,538.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,685.4	0.00	0.00	5,624.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Massive Cliffhouse										
5,700.0	0.00	0.00	5,638.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,719.4	0.00	0.00	5,658.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Menefee										
5,800.0	0.00	0.00	5,738.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,838.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
5,975.4	0.00	0.00	5,914.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Pt. Lookout										
6,000.0	0.00	0.00	5,938.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,038.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,138.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,238.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,361.4	0.00	0.00	6,300.0	-265.1	-564.9	624.1	0.00	0.00	0.00	
Mancos Shale										
6,400.0	0.00	0.00	6,338.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,438.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,538.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,638.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,738.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,838.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,938.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,038.6	-265.1	-564.9	624.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,138.6	-265.1	-564.9	624.1	0.00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Trail Canyon #4A
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6663.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6663.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Trail Canyon #4A	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)
7,300.0	0.00	0.00	7,238.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,326.4	0.00	0.00	7,265.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Gallup									
7,400.0	0.00	0.00	7,338.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,438.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,538.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,638.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,738.6	-265.1	-564.9	624.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,838.6	-265.1	-564.9	624.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,938.6	-265.1	-564.9	624.1	0.00	0.00	0.00
8,066.4	0.00	0.00	8,005.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Greenhorn									
8,100.0	0.00	0.00	8,038.6	-265.1	-564.9	624.1	0.00	0.00	0.00
8,116.4	0.00	0.00	8,055.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Graneros									
8,180.4	0.00	0.00	8,119.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Two Wells									
8,200.0	0.00	0.00	8,138.6	-265.1	-564.9	624.1	0.00	0.00	0.00
8,228.4	0.00	0.00	8,167.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Paguate									
8,241.4	0.00	0.00	8,180.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Upper Cubero									
8,273.4	0.00	0.00	8,212.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Lower Cubero									
8,300.0	0.00	0.00	8,238.6	-265.1	-564.9	624.1	0.00	0.00	0.00
8,315.4	0.00	0.00	8,254.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Encinal									
8,355.4	0.00	0.00	8,294.0	-265.1	-564.9	624.1	0.00	0.00	0.00
Trail Canyon #4A - PCP									

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									
Trail Canyon #4A - PCP	0.00	0.00	8,294.0	-265.1	-564.9	2,181,130.92	538,192.09	36° 59' 38.592 N	107° 42' 9.200 W
- plan hits target center									
- Point									
Trail Canyon #4A - ICP	0.00	0.00	3,780.0	-265.1	-564.9	2,181,130.89	538,192.06	36° 59' 38.591 N	107° 42' 9.200 W
- plan hits target center									
- Point									

Casing Points

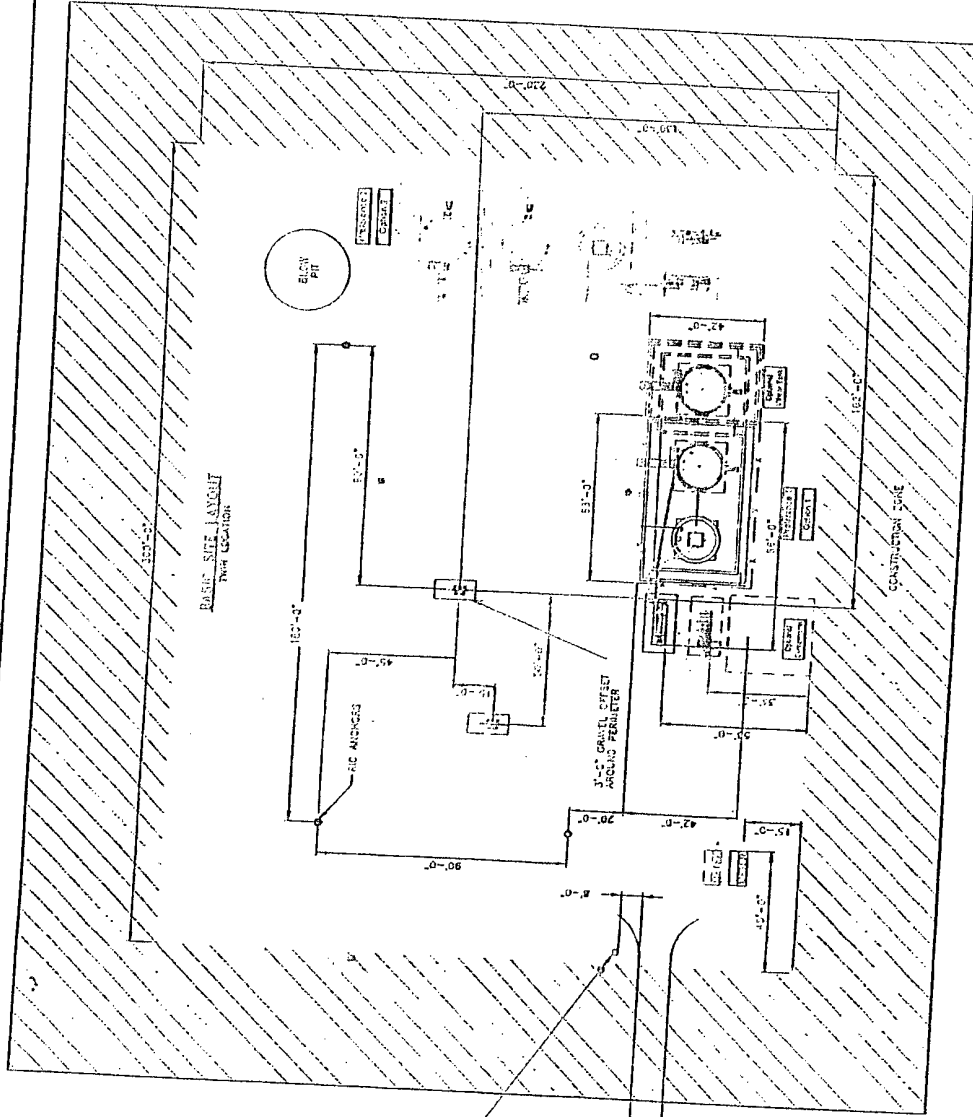
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,355.4	8,294.0	Production	4-1/2	6-1/4
200.0	200.0	Surface	9-5/8	12-1/4
3,841.4	3,780.0	Intermediate	7	8-3/4

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Trail Canyon #4A
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6663.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6663.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Trail Canyon #4A	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,180.4	8,119.0	Two Wells		0.00		
3,741.4	3,680.0	Lewis		0.00		
8,273.4	8,212.0	Lower Cubero		0.00		
8,228.4	8,167.0	Paguate		0.00		
5,719.4	5,658.0	Menefee		0.00		
2,985.7	2,937.0	Fruitland		0.00		
2,167.2	2,136.0	Kirtland		0.00		
7,326.4	7,265.0	Gallup		0.00		
859.2	856.0	Nacimiento		0.00		
5,685.4	5,624.0	Massive Cliffhouse		0.00		
8,315.4	8,254.0	Encinal		0.00		
5,287.4	5,226.0	Upper Cliffhouse		0.00		
2,007.7	1,980.0	Ojo Alamo		0.00		
4,403.4	4,342.0	Huerf. Bent.		0.00		
6,361.4	6,300.0	Mancos Shale		0.00		
5,975.4	5,914.0	Pt. Lookout		0.00		
4,875.4	4,814.0	Chacra		0.00		
8,241.4	8,180.0	Upper Cubero		0.00		
3,614.9	3,554.0	Pictured Cliffs		0.00		
8,066.4	8,005.0	Greenhorn		0.00		
8,116.4	8,055.0	Graneros		0.00		



FLOW LINE 1
 SCALES LINE
 PIT LINE
 DIE LINE

SEE SHEET 3.0.1 FOR FLOW LINE
 AND DIMENSIONS ARE SHOWN IN FEET OR 1/4\"/>

SHEET 1 OF 2

CONOCOPhillips
 HIGH PRESSURE 3 PHASE
 FACILITY BAYARD- SITE LAYOUT

ConocoPhillips
 SAN JUAN BUSINESS UNIT

MATERIAL SOURCE
 LOCATION

ENGINEERING SOURCE
 LOCATION

LOCATION

LOCATION

LOCATION

LOCATION

LOCATION

LOCATION

LOCATION

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LOCATION

BURLINGTON RESOURCES OIL & GAS COMPANY LP

TRAIL CANYON 4A

1191' FSL & 1449' FWL (SURFACE LOCATION)

915' FSL & 950' FWL (BOTTOM HOLE LOCATION)

LATITUDE: 36.9947845° N

LONGITUDE: 107.7012371° W

NAD 83

SECTION 8, T-32-N, R-8-W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

FROM THE INTERSECTION OF NEW MEXICO STATE HIGHWAY 173 AND
NEW MEXICO STATE HIGHWAY 511.

TRAVEL NORTHEASTERLY 5.7 MILES ON NEW MEXICO STATE
HIGHWAY 511 TO THE TOP OF NAVAJO DAM.
CONTINUE NORTHERLY 14.8 MILES ON NEW MEXICO STATE HIGHWAY 511.
TURN LEFT OFF NEW MEXICO STATE HIGHWAY 511 AND
TRAVEL NORTHERLY 0.5 MILE.
TURN LEFT AT FORK IN ROAD AND
TRAVEL WESTERLY 1.8 MILES AROUND NORTH EDGE OF
RATTLESNAKE CANYON.
TURN RIGHT AT FORK IN ROAD AND
TRAVEL WESTERLY 0.8 MILE.
TURN RIGHT AT A TEE INTERSECTION AND TRAVEL NORTHERLY,
THEN WESTERLY, 1.5 MILES TO PROPOSED ACCESS ROUTE AND
PROPOSED TRAIL CANYON 4A WELL LOCATION.