

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED
OMB No. 1004-0137

JAN 17 2013
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.*

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Burlington Resources Oil & Gas Company LP

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface **Unit K (NE/SW), 1855'FSL & 1353'FWL, Section 1, T30N, R12W**

Bottomhole **Unit K (NE/SW), 1930'FSL & 2130'FWL, Section 1, T30N, R12W**

5. Lease Serial No.

Farmington Field NM-02707

6. If Indian, Allottee or Tribe Name
Bureau of Land Management

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Tommy Bolack 1P

9. API Well No.

30-045-35436

10. Field and Pool or Exploratory Area

Basin DK/Blanco MV

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

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other **Drop**

Mancos Formation

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.)

Burlington Resources requests permission to remove the Basin Mancos formation from this well. Attached is a revised plat and project proposal.

RCVD JAN 25 '13
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**

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Arleen White

Title

Staff Regulatory Tech

Signature

Arleen White

Date

1/17/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title

Petroleum Engineer

Date

1/23/13

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.

(Instruction on page 2)

NMOCDA

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 July 16, 2010
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35436	² Pool Code 71599/72319	³ Pool Name BLANCO BASIN DAKOTA / MESA VERDE
⁴ Property Code 18629	⁵ Property Name TOMMY BOLACK	⁶ Well Number 1P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 5745

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
K	1	30 N	12 W		1855	SOUTH	1353	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
K	1	30 N	12 W		1930	SOUTH	2130	WEST	SAN JUAN

¹² Dedicated Acres 320.00 (S/2) DK 315.35 (S/2) MV	¹³ Joint or Infill	¹⁴ Consolidation Code	Order No.	RCVD JAN 25 '13 OIL CONS. DIV.
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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 DIST. 3

16 N 89°18'24" W 2645.49' LOT 4 (39.85) LOT 3 (39.75) 2620.56' N 1°51'34" W LEGEND: ○ = SURFACE LOCATION ● = BOTTOM HOLE LOCATION ⊕ = FOUND 1976 B.L.M. BRASS CAP ⊗ = FOUND 1951 B.L.M. BRASS CAP ⊗ = FOUND 1975 B.L.M. BRASS CAP ⊗ = FOUND 1969 B.L.M. BRASS CAP	N 89°08'08" W 2656.86' BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83, UNLESS OTHERWISE NOTED. LOT 2 (39.85) LOT 1 (39.95) LOT 5 (38.64) -0°07'56" T.N. G.N. G.N.=GRID NORTH T.N.=TRUE NORTH CONVERGENCE AT SURFACE LOCATION	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 released 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. Arleen White 1/17/13 Signature Date Arleen White Printed Name E-mail Address
USA NM-02707 2130' 1353' 2635.84' N 1°50'49" W 1855' N 86°31'36" E 777.66' 1930'	BHL LAT: 36.8391438° N LONG: 108.0513243° W NAD 83 LAT: 36°50.34844' N LONG: 108°03.04193' W NAD 27 LOT 6 (39.03) SURFACE LAT: 36.8390095° N LONG: 108.0539766° W NAD 83 LAT: 36°50.34038' N LONG: 108°03.20107' W NAD 27	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. 7/07/11 Date of Survey Signature and Seal of Professional Surveyor MARSHALL W. LINDEN NEW MEXICO 17078 PROFESSIONAL SURVEYOR 17078 Certificate Number

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

TOMMY BOLACK 1P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0153				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #: 3004535436
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: LeBeau, Sharon E		Phone: 505-599-4033		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20076	DAKOTA(R20076)						
R20002	MESAVERDE(R20002)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.839006	Longitude: -108.053351	X:	Y:	Section: 01		Range: 012W	
Footage X: 1353 FWL	Footage Y: 1855 FSL	Elevation: 5745	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.839141	Longitude: -108.050699	X:	Y:	Section: 01		Range: 012W	
Footage X: 2130 FWL	Footage Y: 1930 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5760 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5560		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	553	5207		☐			
KIRTLAND	669	5091		☐			
FRUITLAND	1539	4221		☐			Possible Gas
PICTURED CLIFFS	2133	3627		☐			
LEWIS	2316	3444		☐			
HUERFANITO BENTONITE	2865	2895		☐			
CHACRA	3181	2579		☐			
MASSIVE CLIFF HOUSE	3772	1988		☐	630		Gas; Cliffhouse could be wet.
MENEFEE	3890	1870		☐			
Intermediate Casing	4040	1720		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 940 cuft. Circulate cement to surface.
POINT LOOKOUT	4454	1306		☐			
MANCOS	4794	966		☐			
UPPER GALLUP	5721	39		☐			
GREENHORN	6474	-714		☐			
GRANEROS	6531	-771		☐			
TWO WELLS	6593	-833		☐	2401		Gas
PAGUATE	6656	-896		☐			
CUBERO	6691	-931		☐			
ENCINAL	6739	-979		☐			Est bottom perf ~15' above TD

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

TOMMY BOLACK 1P

DEVELOPMENT

Total Depth	6780	-1020	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC/BTC casing. Cement w/ 363 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mud log from ~100' above the Uppe Gallup to TD. Mud loggers will call final TD.	

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

Comments: Location/Tops/Logging - MV/DKNM030N012W01SW2 Avoid M - Bolack Federal 1 (MV) and Tommy Bolack 1 (DK/Gllp) are located here. Prefer a BHL in K, N, L.

Zones - MV/DKNM030N012W01SW2 10-4-11 Added Mancos. hdm 6-25-12 Removed Mancos per Land recommendation. HDM

General/Work Description - 07-09-12 - DRLG - No H2S contingency plan required. BEH
 6-25-12 The spacing unit for the Tommy Bolack 1P is within the Flora Vista Gallup pool. This pool allows for only one Gallup well per spacing unit, and there is currently a producing Gallup well there. Therefore, it is Land's recommendation that we remove the Mancos formation from the Tommy Bolack 1P. HDM
 10-4-11 Pulled subtasks back to add Mancos. HDM
 9-29-11 Label "Resource Strategic" added. HDM
 NO LEWIS
 7/20/10 - Marginal as directional in 2013.--TLJ

ConocoPhillips SJB

San Juan Basin - New Mexico West Wells

Other Named Wells

Tommy Bolack 1P

Wellbore #1

Plan: APD Plan

Standard Planning Report

13 July, 2012

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Tommy Bolack 1P
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Tommy Bolack 1P
TVD Reference: WELL @ 5760.0ft (Original Well Elev)
MD Reference: WELL @ 5760.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Project: San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico West 3003

System Datum: Ground Level
 Using geodetic scale factor

Site: Other Named Wells

Site Position:	Northing:	2,063,826.04 ft	Latitude:	36° 40' 18.848 N
From: Lat/Long	Easting:	504,691.02 ft	Longitude:	107° 49' 2.415 W
Position Uncertainty: 15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.01 °

Well: Tommy Bolack 1P

Well Position	+N/-S	0.0 ft	Northing:	2,124,733.19 ft	Latitude:	36° 50' 20.423 N
	+E/-W	0.0 ft	Easting:	435,616.20 ft	Longitude:	108° 3' 12.064 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,745.0 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	7/13/2012	9.90	63.46	50,610

Design: APD Plan

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	86.39

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,565.4	23.31	86.39	1,533.5	14.7	233.3	2.00	2.00	0.00	86.39	
2,546.2	23.31	86.39	2,434.3	39.1	620.7	0.00	0.00	0.00	0.00	
3,323.2	0.00	0.00	3,190.0	48.9	776.2	3.00	-3.00	0.00	180.00	
4,173.2	0.00	0.00	4,040.0	48.9	776.2	0.00	0.00	0.00	0.00	Tommy Bolack 1P ICI
6,913.2	0.00	0.00	6,780.0	48.9	776.2	0.00	0.00	0.00	0.00	Tommy Bolack 1P PC

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Tommy Bolack 1P
Wellbore: Wellbore #1
Design: APD Plan

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

Well Tommy Bolack 1P
WELL @ 5760.0ft (Original Well Elev)
WELL @ 5760.0ft (Original Well Elev)
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)
0.0	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
SCP									
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	2.00	86.39	500.0	0.1	1.7	1.7	2.00	2.00	0.00
553.1	3.06	86.39	553.0	0.3	4.1	4.1	2.00	2.00	0.00
Ojo Alamo									
600.0	4.00	86.39	599.8	0.4	7.0	7.0	2.00	2.00	0.00
669.4	5.39	86.39	669.0	0.8	12.6	12.7	2.00	2.00	0.00
Kirtland									
700.0	6.00	86.39	699.5	1.0	15.7	15.7	2.00	2.00	0.00
800.0	8.00	86.39	798.7	1.8	27.8	27.9	2.00	2.00	0.00
900.0	10.00	86.39	897.5	2.7	43.4	43.5	2.00	2.00	0.00
1,000.0	12.00	86.39	995.6	3.9	62.5	62.6	2.00	2.00	0.00
1,100.0	14.00	86.39	1,093.1	5.4	84.9	85.1	2.00	2.00	0.00
1,200.0	16.00	86.39	1,189.6	7.0	110.8	111.0	2.00	2.00	0.00
1,300.0	18.00	86.39	1,285.3	8.8	139.9	140.2	2.00	2.00	0.00
1,400.0	20.00	86.39	1,379.8	10.9	172.4	172.8	2.00	2.00	0.00
1,500.0	22.00	86.39	1,473.2	13.1	208.2	208.6	2.00	2.00	0.00
1,565.4	23.31	86.39	1,533.5	14.7	233.3	233.8	2.00	2.00	0.00
1,571.4	23.31	86.39	1,539.0	14.9	235.7	236.2	0.00	0.00	0.00
Fruitland									
1,600.0	23.31	86.39	1,565.3	15.6	247.0	247.5	0.00	0.00	0.00
1,700.0	23.31	86.39	1,657.1	18.1	286.5	287.1	0.00	0.00	0.00
1,800.0	23.31	86.39	1,749.0	20.5	326.0	326.6	0.00	0.00	0.00
1,900.0	23.31	86.39	1,840.8	23.0	365.5	366.2	0.00	0.00	0.00
2,000.0	23.31	86.39	1,932.7	25.5	405.0	405.8	0.00	0.00	0.00
2,100.0	23.31	86.39	2,024.5	28.0	444.4	445.3	0.00	0.00	0.00
2,200.0	23.31	86.39	2,116.3	30.5	483.9	484.9	0.00	0.00	0.00
2,218.2	23.31	86.39	2,133.0	31.0	491.1	492.1	0.00	0.00	0.00
Picture Cliffs									
2,300.0	23.31	86.39	2,208.2	33.0	523.4	524.5	0.00	0.00	0.00
2,400.0	23.31	86.39	2,300.0	35.5	562.9	564.0	0.00	0.00	0.00
2,417.4	23.31	86.39	2,316.0	35.9	569.8	570.9	0.00	0.00	0.00
Lewis									
2,500.0	23.31	86.39	2,391.8	38.0	602.4	603.6	0.00	0.00	0.00
2,546.2	23.31	86.39	2,434.3	39.1	620.7	621.9	0.00	0.00	0.00
2,600.0	21.70	86.39	2,484.0	40.4	641.2	642.5	3.00	-3.00	0.00
2,700.0	18.70	86.39	2,577.8	42.6	675.6	677.0	3.00	-3.00	0.00
2,800.0	15.70	86.39	2,673.3	44.4	705.1	706.5	3.00	-3.00	0.00
2,900.0	12.70	86.39	2,770.3	46.0	729.6	731.1	3.00	-3.00	0.00
2,996.6	9.80	86.39	2,865.0	47.2	748.4	749.9	3.00	-3.00	0.00
Huerfanito Bentenite									
3,000.0	9.70	86.39	2,868.4	47.2	749.0	750.5	3.00	-3.00	0.00
3,100.0	6.70	86.39	2,967.3	48.1	763.2	764.7	3.00	-3.00	0.00
3,200.0	3.70	86.39	3,066.9	48.7	772.3	773.8	3.00	-3.00	0.00
3,300.0	0.70	86.39	3,166.8	48.9	776.1	777.6	3.00	-3.00	0.00
3,314.2	0.27	86.39	3,181.0	48.9	776.2	777.7	3.00	-3.00	0.00
Chacra									
3,323.2	0.00	0.00	3,190.0	48.9	776.2	777.8	3.00	-3.00	0.00
3,400.0	0.00	0.00	3,266.8	48.9	776.2	777.8	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Tommy Bolack 1P
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Tommy Bolack 1P
TVD Reference: WELL @ 5760.0ft (Original Well Elev)
MD Reference: WELL @ 5760.0ft (Original Well Elev)
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)
3,500.0	0.00	0.00	3,366.8	48.9	776.2	777.8	0.00	0.00	0.00
3,600.0	0.00	0.00	3,466.8	48.9	776.2	777.8	0.00	0.00	0.00
3,700.0	0.00	0.00	3,566.8	48.9	776.2	777.8	0.00	0.00	0.00
3,800.0	0.00	0.00	3,666.8	48.9	776.2	777.8	0.00	0.00	0.00
3,900.0	0.00	0.00	3,766.8	48.9	776.2	777.8	0.00	0.00	0.00
3,905.2	0.00	0.00	3,772.0	48.9	776.2	777.8	0.00	0.00	0.00
Massive Cliff House									
4,000.0	0.00	0.00	3,866.8	48.9	776.2	777.8	0.00	0.00	0.00
4,023.2	0.00	0.00	3,890.0	48.9	776.2	777.8	0.00	0.00	0.00
Menefee									
4,100.0	0.00	0.00	3,966.8	48.9	776.2	777.8	0.00	0.00	0.00
4,173.2	0.00	0.00	4,040.0	48.9	776.2	777.8	0.00	0.00	0.00
ICP - Tommy Bolack 1P ICP									
4,200.0	0.00	0.00	4,066.8	48.9	776.2	777.8	0.00	0.00	0.00
4,300.0	0.00	0.00	4,166.8	48.9	776.2	777.8	0.00	0.00	0.00
4,400.0	0.00	0.00	4,266.8	48.9	776.2	777.8	0.00	0.00	0.00
4,500.0	0.00	0.00	4,366.8	48.9	776.2	777.8	0.00	0.00	0.00
4,587.2	0.00	0.00	4,454.0	48.9	776.2	777.8	0.00	0.00	0.00
Point Lookout									
4,600.0	0.00	0.00	4,466.8	48.9	776.2	777.8	0.00	0.00	0.00
4,700.0	0.00	0.00	4,566.8	48.9	776.2	777.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,666.8	48.9	776.2	777.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,766.8	48.9	776.2	777.8	0.00	0.00	0.00
4,927.2	0.00	0.00	4,794.0	48.9	776.2	777.8	0.00	0.00	0.00
Mancos									
5,000.0	0.00	0.00	4,866.8	48.9	776.2	777.8	0.00	0.00	0.00
5,100.0	0.00	0.00	4,966.8	48.9	776.2	777.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,066.8	48.9	776.2	777.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,166.8	48.9	776.2	777.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,266.8	48.9	776.2	777.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,366.8	48.9	776.2	777.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,466.8	48.9	776.2	777.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,566.8	48.9	776.2	777.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,666.8	48.9	776.2	777.8	0.00	0.00	0.00
5,854.2	0.00	0.00	5,721.0	48.9	776.2	777.8	0.00	0.00	0.00
Upper Gallup									
5,900.0	0.00	0.00	5,766.8	48.9	776.2	777.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,866.8	48.9	776.2	777.8	0.00	0.00	0.00
6,100.0	0.00	0.00	5,966.8	48.9	776.2	777.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,066.8	48.9	776.2	777.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,166.8	48.9	776.2	777.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,266.8	48.9	776.2	777.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,366.8	48.9	776.2	777.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,466.8	48.9	776.2	777.8	0.00	0.00	0.00
6,607.2	0.00	0.00	6,474.0	48.9	776.2	777.8	0.00	0.00	0.00
Greenhorn									
6,664.2	0.00	0.00	6,531.0	48.9	776.2	777.8	0.00	0.00	0.00
Graneros									
6,700.0	0.00	0.00	6,566.8	48.9	776.2	777.8	0.00	0.00	0.00
6,726.2	0.00	0.00	6,593.0	48.9	776.2	777.8	0.00	0.00	0.00
Two Wells									
6,789.2	0.00	0.00	6,656.0	48.9	776.2	777.8	0.00	0.00	0.00

ConocoPhillips or its affiliates **Planning Report**

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Tommy Bolack 1P
Wellbore: Wellbore #1
Design: APD Plan

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

Well Tommy Bolack 1P
 WELL @ 5760.0ft (Original Well Elev)
 WELL @ 5760.0ft (Original Well Elev)
 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)
Paguate									
6,800.0	0.00	0.00	6,666.8	48.9	776.2	777.8	0.00	0.00	0.00
6,824.2	0.00	0.00	6,691.0	48.9	776.2	777.8	0.00	0.00	0.00
Cubero									
6,872.2	0.00	0.00	6,739.0	48.9	776.2	777.8	0.00	0.00	0.00
Encinal									
6,900.0	0.00	0.00	6,766.8	48.9	776.2	777.8	0.00	0.00	0.00
6,913.2	0.00	0.00	6,780.0	48.9	776.2	777.8	0.00	0.00	0.00
Tommy Bolack 1P 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									
Tommy Bolack 1P ICP	0.00	0.00	4,040.0	48.9	776.2	2,124,780.32	436,392.47	36° 50' 20.906 N	108° 3' 2.516 W
- plan hits target center									
- Point									
Tommy Bolack 1P PCP	0.00	0.00	6,780.0	48.9	776.2	2,124,780.30	436,392.45	36° 50' 20.906 N	108° 3' 2.516 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
4,173.2	4,040.0	ICP	7	8-3/4
200.0	200.0	SCP	9-5/8	12-1/4
6,913.2	6,780.0	PCP	4-1/2	6-1/4

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Tommy Bolack 1P
Wellbore: Wellbore #1
Design: APD Plan

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

Well Tommy Bolack 1P
 WELL @ 5760.0ft (Original Well Elev)
 WELL @ 5760.0ft (Original Well Elev)
 True
 Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,789.2	6,656.0	Paguate		0.00	
6,726.2	6,593.0	Two Wells		0.00	
553.1	553.0	Ojo Alamo		0.00	
2,218.2	2,133.0	Picture Cliffs		0.00	
3,905.2	3,772.0	Massive Cliff House		0.00	
4,927.2	4,794.0	Mancos		0.00	
6,824.2	6,691.0	Cubero		0.00	
6,607.2	6,474.0	Greenhorn		0.00	
669.4	669.0	Kirtland		0.00	
2,996.6	2,865.0	Huerfano Benteonite		0.00	
2,417.4	2,316.0	Lewis		0.00	
5,854.2	5,721.0	Upper Gallup		0.00	
4,587.2	4,454.0	Point Lookout		0.00	
6,872.2	6,739.0	Encinal		0.00	
1,571.4	1,539.0	Fruitland		0.00	
4,023.2	3,890.0	Menefee		0.00	
6,664.2	6,531.0	Graneros		0.00	
3,314.2	3,181.0	Chacra		0.00	

REFERENCE INFORMATION WELL @ 5760.0ft (Original Well Elev) Ground Elevation 5745.0 Reference Lat: 36° 50' 20.423 N Reference Long: 108° 3' 12.064 W	Project: San Juan Basin - New Mexico West V Site: Other Named Wells Well: Tommy Bolack 1P Wellbore: Wellbore #1 Design: APD Plan	
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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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1565.4	23.31	86.39	1533.5	14.7	233.3	2.00	86.39	233.8	
4	2546.2	23.31	86.39	2434.3	39.1	620.7	0.00	0.00	621.9	
5	3323.2	0.00	0.00	3190.0	48.9	776.2	3.00	180.00	777.8	
6	4173.2	0.00	0.00	4040.0	48.9	776.2	0.00	0.00	777.8	Tommy Bolack 1P ICP
7	6913.2	0.00	0.00	6780.0	48.9	776.2	0.00	0.00	777.8	Tommy Bolack 1P PCP

