State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division

New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-3 APD form.

Operator Signature Date: 6/2/14
Well information;
Operator Burlington Res., Well Name and Number San Juan 28-5 Unit #41P
API# 30-039-31242, Section 32, Township 28 (N)S, Range 5 E/(W)

Conditions of Approval:
(See the below checked and handwritten conditions)

- ✓ Notify Aztec OCD 24hrs prior to casing & cement.
- ✓ Hold C-104 for directional survey & "As Drilled" Plat
- o Hold C-104 for NSL, NSP, DHC
- o Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- o Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
  - A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
  - A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
  - A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- o Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- o Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.

Charlie Perrin
NMOCD Approved by Signature

7-28-2014
Date

RECEIVED

JUN 02 2014

Bureau of Land Management
Farmington Field Office

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL

1b. Type of Well: GAS

5. Lease Number: SF-079521

Unit Reporting Number: NMNM-78414-MV-NMNM78411B

6. If Indian, All. or Tribe

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

2. Operator: BURLINGTON RESOURCES Oil & Gas Company, LP

7. Unit Agreement Name: San Juan 28-5 Unit

3. Address & Phone No. of Operator: PO Box 4289, Farmington, NM 87499

(505) 326-9700

8. Farm or Lease Name: San Juan 28-5 Unit

9. Well Number: 41P

4. Location of Well
Surface: Unit A(NENE), 665' FNL & 1274' FEL
BHL : Unit G(SWNE), 1540' FNL & 2240' FEL

Surface: Latitude: 36.6231845° N (NAD83)
Longitude: 107.3779241° W
BHL : Latitude: 36.6207819° N (NAD83)
Longitude: 107.3812099° W

10. Field, Pool, Wildcat: Blanco MV / Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)
Sec. 32, T28N, R5W

BHL: Sec. 32, T28N, R5W

API # 30-039- 31242

14. Distance in Miles from Nearest Town: 39 miles to Bloomfield

12. County: Rio Arriba

13. State: NM

15. Distance from Proposed Location to Nearest Property or Lease Line: 665'

16. Acres in Lease: 638.720

17. Acres Assigned to Well: 320 (N/2)

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease: 235' San Juan 28-5 Unit 41 (MV/DK well)

19. Proposed Depth: 7805'

20. Rotary or Cable Tools: Rotary

21. Elevations (DF, FT, GR, Etc.): 6559' GL

22. Approx. Date Work will Start

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Kenny Davis (Staff Regulatory Tech) 6/2/14 Date

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE AFM DATE 7/16/14

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

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.

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

Example Waste Plan Attached

Bond Numbers NMB-000015 and NMB-000089

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

NMOCD

OIL CONS. DIV DIST. 3

JUL 21 2014

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 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, N.M. 87505

RECEIVED
JUN 02 2014

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

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039- 31242	71599/72319	BASIN DAKOTA / BLANCO MESA VERDE

[4] Property Code	[5] Property Name	[6] Well Number
7460	SAN JUAN 28-5 UNIT	41P

[7] OGRID No.	[8] Operator Name	[9] Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY LP	6559

[10] Surface Location

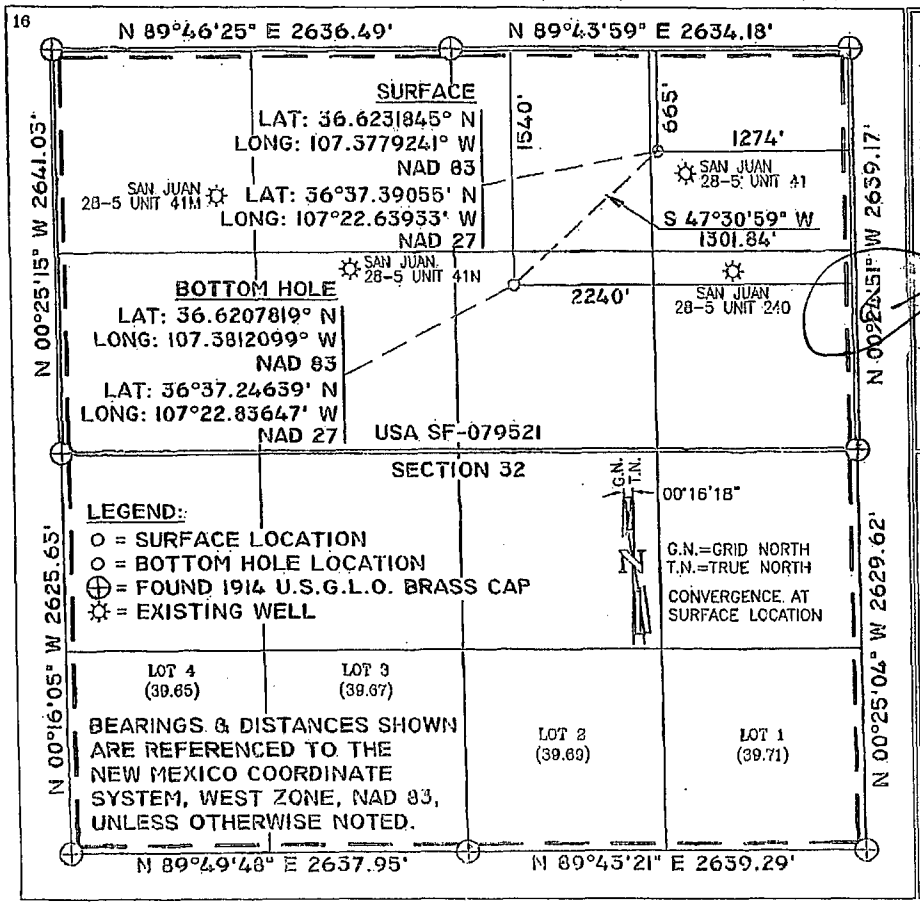
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	28 N	5 W		665	NORTH	1274	EAST	RIO ARRIBA

[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
G	32	28 N	5 W		1540	NORTH	2240	EAST	RIO ARRIBA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320 (N/2)			

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 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 — 5/27/14 Date

Kenny Davis
Printed Name

kenny.r.davis@cop.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.

01/27/2014
Date of Survey

Signature and Seal of Professional Surveyor: JASON W. LINDEEN, NEW MEXICO, 17078, PROFESSIONAL SURVEYOR

17078
Certificate Number

BURLINGTON
RESOURCES

Operator Certification

Operator Information:

Burlington Resources Oil & Gas, LP
P.O. Box 4289
Farmington, NM 87499-4289
505-326-9700

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provision of 18 U.S.C. 1001 for the filing of false statements.

Executed this 2nd day of June, 2014.

Kenny Davis
Staff Regulatory Technician
On behalf of Heather McDaniel and Doug Elston

The person who can be contacted concerning compliance of the APD is:

Heather McDaniel,
Regulatory Supervisor
ConocoPhillips Company
P.O. Box 4289
Farmington, NM 87499-4289
505-326-9507

The Field Representative who can be contacted concerning compliance of the enclosed Surface Use Plan is:

Doug Elston,
Supt. Capital Projects
ConocoPhillips Company
P.O. Box 4289
Farmington, NM 87499-4289
505-599-4004

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 41P **DEVELOPMENT**

Lease:	AFE #: WAN.CDR.3045			AFE $:
Field Name: SAN JUAN	Rig: 2015 2nd Rig Program	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
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface	Datum Code: NAD 27				**Directional**
Latitude: 36.623176	Longitude: -107.377322	X:	Y:	Section: 32	Range: 005W
Footage X: 1274 FEL	Footage Y: 665 FNL	Elevation: 6559 (FT)	Township: 028N		
Tolerance:					
Location: Bottom Hole	Datum Code: NAD 27				**Directional**
Latitude: 36.620773	Longitude: -107.380608	X:	Y:	Section: 32	Range: 005W
Footage X: 2240 FEL	Footage Y: 1540 FNL	Elevation: (FT)	Township: 028N		
Tolerance:					

Location Type: Year Round Start Date (Est.): 1/1/2015 Completion Date: Date In Operation:

Formation Data: Assume KB = 6574 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	0	6574		☐			Surface geology
Surface Casing	200	6374		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1430	5144		☐			
OJO ALAMO	2737	3837		☐			
KIRTLAND	2840	3734		☐			
FRUITLAND	2987	3587		☐			Possible Gas
PICTURED CLIFFS	3389	3185		☐		113	
LEWIS	3515	3059		☐			
Intermediate Casing	4339	2235		☐		116	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1031 cuft. Circulate cement to surface.
CHACRA	4346	2228		☐			
MASSIVE CLIFF HOUSE	5076	1498		☐	659		Gas; Cliffhouse is dry
MENEFEE	5219	1355		☐			
POINT LOOKOUT	5562	1012		☐			
MANCOS	6063	511		☐			
UPPER GALLUP	6732	-158		☐			
GREENHORN	7472	-898		☐			
GRANEROS	7545	-971		☐			
TWO WELLS	7578	-1004		☐	1942		Gas
PAGUATE	7662	-1088		☐			
UPPER CUBERO	7679	-1105		☐			
LOWER CUBERO	7726	-1152		☐			

Printed on: 6/2/2014 9:29:43 AM

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 41P **DEVELOPMENT**

Total Depth	7805	-1231	☐	203	6-1/4" hole, 4-1/2" 11.6 ppf, N/L-80, BTC/LTC casing. Cement w/ 456 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	7805	-1231	☐		TD ~T/ENCN. Est bottom perf 7785' TVD (20' from TD)

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 Upper Gallup to TD. Mud loggers will call final TD.

Additional Information:

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

ConocoPhillips SJBU

San Juan Basin - New Mexico Central Wells
San Juan 28 Wells
San Juan 28-5 Unit 41P

Wellbore #1

Plan: Design #1

Standard Planning Report

17 March, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit 41P
Company:	ConocoPhillips SJBU	**TVD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	**MD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Site:	San Juan 28 Wells	**North Reference:**	True
Well:	San Juan 28-5 Unit 41P	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	San Juan Basin - New Mexico Central 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 Central 3002		Using geodetic scale factor

Site	San Juan 28 Wells, Township 28				
Site Position:		**Northing:**	2,045,688.53 usft	**Latitude:**	36° 36' 58.001 N
From:	Lat/Long	**Easting:**	147,261.04 usft	**Longitude:**	107° 27' 6.935 W
Position Uncertainty:	3.5 usft	**Slot Radius:**	6-1/8"	**Grid Convergence:**	-0.72 °

Well	San Juan 28-5 Unit 41P					
Well Position	**+N/-S**	0.0 usft	**Northing:**	2,047,994.85 usft	**Latitude:**	36° 37' 23.433 N
	+E/-W	0.0 usft	**Easting:**	169,186.77 usft	**Longitude:**	107° 22' 38.360 W
Position Uncertainty		2.5 usft	**Wellhead Elevation:**	usft	**Ground Level:**	6,559.0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2013	2/26/2014	9.43	63.38	50,382

Design	Design #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	227.79	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,450.0	23.00	227.79	1,419.4	-153.0	-168.7	2.00	2.00	0.00	227.79	
3,810.5	23.00	227.79	3,592.3	-772.7	-851.8	0.00	0.00	0.00	0.00	
4,577.2	0.00	0.00	4,338.5	-874.7	-964.3	3.00	-3.00	0.00	180.00	
8,043.7	0.00	0.00	7,805.0	-874.7	-964.3	0.00	0.00	0.00	0.00	SJ 28-5 Unit #41P BH

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit 41P
Company:	ConocoPhillips SJBU	**TVD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	**MD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Site:	San Juan 28 Wells	**North Reference:**	True
Well:	San Juan 28-5 Unit 41P	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SAN JOSE									
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 9-5/8"									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.00	227.79	400.0	-1.2	-1.3	1.7	2.00	2.00	0.00
500.0	4.00	227.79	499.8	-4.7	-5.2	7.0	2.00	2.00	0.00
600.0	6.00	227.79	599.5	-10.5	-11.6	15.7	2.00	2.00	0.00
700.0	8.00	227.79	698.7	-18.7	-20.6	27.9	2.00	2.00	0.00
800.0	10.00	227.79	797.5	-29.2	-32.2	43.5	2.00	2.00	0.00
900.0	12.00	227.79	895.6	-42.1	-46.4	62.6	2.00	2.00	0.00
1,000.0	14.00	227.79	993.1	-57.2	-63.0	85.1	2.00	2.00	0.00
1,100.0	16.00	227.79	1,089.6	-74.6	-82.2	111.0	2.00	2.00	0.00
1,200.0	18.00	227.79	1,185.3	-94.2	-103.9	140.2	2.00	2.00	0.00
1,300.0	20.00	227.79	1,279.8	-116.1	-128.0	172.8	2.00	2.00	0.00
1,400.0	22.00	227.79	1,373.2	-140.2	-154.5	208.6	2.00	2.00	0.00
1,450.0	23.00	227.79	1,419.4	-153.0	-168.7	227.7	2.00	2.00	0.00
1,461.6	23.00	227.79	1,430.0	-156.0	-172.0	232.3	0.00	0.00	0.00
NACIMIENTO									
1,500.0	23.00	227.79	1,465.4	-166.1	-183.1	247.3	0.00	0.00	0.00
1,600.0	23.00	227.79	1,557.4	-192.4	-212.1	286.3	0.00	0.00	0.00
1,700.0	23.00	227.79	1,649.5	-218.6	-241.0	325.4	0.00	0.00	0.00
1,800.0	23.00	227.79	1,741.5	-244.9	-270.0	364.5	0.00	0.00	0.00
1,900.0	23.00	227.79	1,833.6	-271.1	-298.9	403.6	0.00	0.00	0.00
2,000.0	23.00	227.79	1,925.6	-297.4	-327.8	442.6	0.00	0.00	0.00
2,100.0	23.00	227.79	2,017.7	-323.7	-356.8	481.7	0.00	0.00	0.00
2,200.0	23.00	227.79	2,109.7	-349.9	-385.7	520.8	0.00	0.00	0.00
2,300.0	23.00	227.79	2,201.8	-376.2	-414.7	559.9	0.00	0.00	0.00
2,400.0	23.00	227.79	2,293.8	-402.4	-443.6	598.9	0.00	0.00	0.00
2,500.0	23.00	227.79	2,385.9	-428.7	-472.5	638.0	0.00	0.00	0.00
2,600.0	23.00	227.79	2,477.9	-454.9	-501.5	677.1	0.00	0.00	0.00
2,700.0	23.00	227.79	2,570.0	-481.2	-530.4	716.2	0.00	0.00	0.00
2,800.0	23.00	227.79	2,662.0	-507.4	-559.4	755.2	0.00	0.00	0.00
2,881.4	23.00	227.79	2,737.0	-528.8	-582.9	787.0	0.00	0.00	0.00
OJO ALAMO									
2,900.0	23.00	227.79	2,754.1	-533.7	-588.3	794.3	0.00	0.00	0.00
2,993.3	23.00	227.79	2,840.0	-558.2	-615.3	830.8	0.00	0.00	0.00
KIRTLAND									
3,000.0	23.00	227.79	2,846.1	-559.9	-617.2	833.4	0.00	0.00	0.00
3,100.0	23.00	227.79	2,938.2	-586.2	-646.2	872.4	0.00	0.00	0.00
3,153.0	23.00	227.79	2,987.0	-600.1	-661.5	893.2	0.00	0.00	0.00
FRUITLAND									
3,200.0	23.00	227.79	3,030.2	-612.4	-675.1	911.5	0.00	0.00	0.00
3,300.0	23.00	227.79	3,122.3	-638.7	-704.1	950.6	0.00	0.00	0.00
3,400.0	23.00	227.79	3,214.3	-664.9	-733.0	989.7	0.00	0.00	0.00
3,500.0	23.00	227.79	3,306.4	-691.2	-761.9	1,028.7	0.00	0.00	0.00
3,589.7	23.00	227.79	3,389.0	-714.7	-787.9	1,063.8	0.00	0.00	0.00
PICTURED CLIFFS									
3,600.0	23.00	227.79	3,398.4	-717.4	-790.9	1,067.8	0.00	0.00	0.00
3,700.0	23.00	227.79	3,490.5	-743.7	-819.8	1,106.9	0.00	0.00	0.00
3,726.6	23.00	227.79	3,515.0	-750.7	-827.5	1,117.3	0.00	0.00	0.00
LEWIS									

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit 41P
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Project:	San Juan Basin - New Mexico Central Wells	**MD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Site:	San Juan 28 Wells	**North Reference:**	True
Well:	San Juan 28-5 Unit 41P	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.0	23.00	227.79	3,582.5	-769.9	-848.8	1,146.0	0.00	0.00	0.00
3,810.5	23.00	227.79	3,592.3	-772.7	-851.8	1,150.1	0.00	0.00	0.00
3,900.0	20.32	227.79	3,675.4	-794.9	-876.3	1,183.1	3.00	-3.00	0.00
4,000.0	17.32	227.79	3,770.0	-816.6	-900.2	1,215.3	3.00	-3.00	0.00
4,100.0	14.32	227.79	3,866.2	-834.9	-920.3	1,242.6	3.00	-3.00	0.00
4,200.0	11.32	227.79	3,963.7	-849.8	-936.8	1,264.8	3.00	-3.00	0.00
4,300.0	8.32	227.79	4,062.3	-861.2	-949.4	1,281.8	3.00	-3.00	0.00
4,400.0	5.32	227.79	4,161.5	-869.2	-958.2	1,293.7	3.00	-3.00	0.00
4,500.0	2.32	227.79	4,261.3	-873.7	-963.1	1,300.3	3.00	-3.00	0.00
4,577.2	0.00	0.00	4,338.5	-874.7	-964.3	1,301.9	3.00	-3.00	0.00
4,577.7	0.00	0.00	4,339.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
Intermediate 7"									
4,584.7	0.00	0.00	4,346.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
CHACRA									
4,600.0	0.00	0.00	4,361.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,461.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,561.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,661.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,761.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,100.0	0.00	0.00	4,861.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,200.0	0.00	0.00	4,961.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,300.0	0.00	0.00	5,061.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,314.7	0.00	0.00	5,076.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
MASSIVE CLIFF HOUSE									
5,400.0	0.00	0.00	5,161.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,457.7	0.00	0.00	5,219.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
MENEFEE									
5,500.0	0.00	0.00	5,261.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,600.0	0.00	0.00	5,361.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,700.0	0.00	0.00	5,461.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,800.0	0.00	0.00	5,561.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
5,800.7	0.00	0.00	5,562.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
POINT LOOKOUT									
5,900.0	0.00	0.00	5,661.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,000.0	0.00	0.00	5,761.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,100.0	0.00	0.00	5,861.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,200.0	0.00	0.00	5,961.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,300.0	0.00	0.00	6,061.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,301.7	0.00	0.00	6,063.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
MANCOS									
6,400.0	0.00	0.00	6,161.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,500.0	0.00	0.00	6,261.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,600.0	0.00	0.00	6,361.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,700.0	0.00	0.00	6,461.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,800.0	0.00	0.00	6,561.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,900.0	0.00	0.00	6,661.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
6,970.7	0.00	0.00	6,732.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
UPPER GALLUP									
7,000.0	0.00	0.00	6,761.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,100.0	0.00	0.00	6,861.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,200.0	0.00	0.00	6,961.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,061.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit 41P
Company:	ConocoPhillips SJBU	**TVD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	**MD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Site:	San Juan 28 Wells	**North Reference:**	True
Well:	San Juan 28-5 Unit 41P	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.0	0.00	0.00	7,161.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,261.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,361.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,461.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,710.7	0.00	0.00	7,472.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
GREENHORN									
7,783.7	0.00	0.00	7,545.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
GRANEROS									
7,800.0	0.00	0.00	7,561.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,816.7	0.00	0.00	7,578.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
TWO WELLS									
7,900.0	0.00	0.00	7,661.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
7,900.7	0.00	0.00	7,662.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
PAGUATE									
7,917.7	0.00	0.00	7,679.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
UPPER CUBERO									
7,964.7	0.00	0.00	7,726.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
LOWER CUBERO									
8,000.0	0.00	0.00	7,761.3	-874.7	-964.3	1,301.9	0.00	0.00	0.00
8,043.7	0.00	0.00	7,805.0	-874.7	-964.3	1,301.9	0.00	0.00	0.00
ENCINAL - Production 4-1/2"									

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SJ 28-5 Unit #41P BHL - plan hits target center - Point	0.00	0.00	7,805.0	-874.7	-964.3	2,047,131.50	168,212.27	36° 37' 14.783 N	107° 22' 50.188 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
200.0	200.0	Surface 9-5/8"	9-5/8	12-1/4
4,577.7	4,339.0	Intermediate 7"	7	8-3/4
8,043.7	7,805.0	Production 4-1/2"	4-1/2	6-1/4

Database:	EDM Central Planning	**Local Co-ordinate Reference:**	Well San Juan 28-5 Unit 41P
Company:	ConocoPhillips SJBU	**TVD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	**MD Reference:**	WELL @ 6574.0usft (Original Well Elev)
Site:	San Juan 28 Wells	**North Reference:**	True
Well:	San Juan 28-5 Unit 41P	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,710.7	7,472.0	GREENHORN		0.00	
3,726.6	3,515.0	LEWIS		0.00	
7,816.7	7,578.0	TWO WELLS		0.00	
3,589.7	3,389.0	PICTURED CLIFFS		0.00	
5,457.7	5,219.0	MENEFEE		0.00	
2,993.3	2,840.0	KIRTLAND		0.00	
7,964.7	7,726.0	LOWER CUBERO		0.00	
4,584.7	4,346.0	CHACRA		0.00	
8,043.7	7,805.0	ENCINAL		0.00	
5,314.7	5,076.0	MASSIVE CLIFF HOUSE		0.00	
1,461.6	1,430.0	NACIMIENTO		0.00	
3,153.0	2,987.0	FRUITLAND		0.00	
6,970.7	6,732.0	UPPER GALLUP		0.00	
7,900.7	7,662.0	PAGUATE		0.00	
5,800.7	5,562.0	POINT LOOKOUT		0.00	
2,881.4	2,737.0	OJO ALAMO		0.00	
0.0	0.0	SAN JOSE		0.00	
7,917.7	7,679.0	UPPER CUBERO		0.00	
7,783.7	7,545.0	GRANEROS		0.00	
6,301.7	6,063.0	MANCOS		0.00	

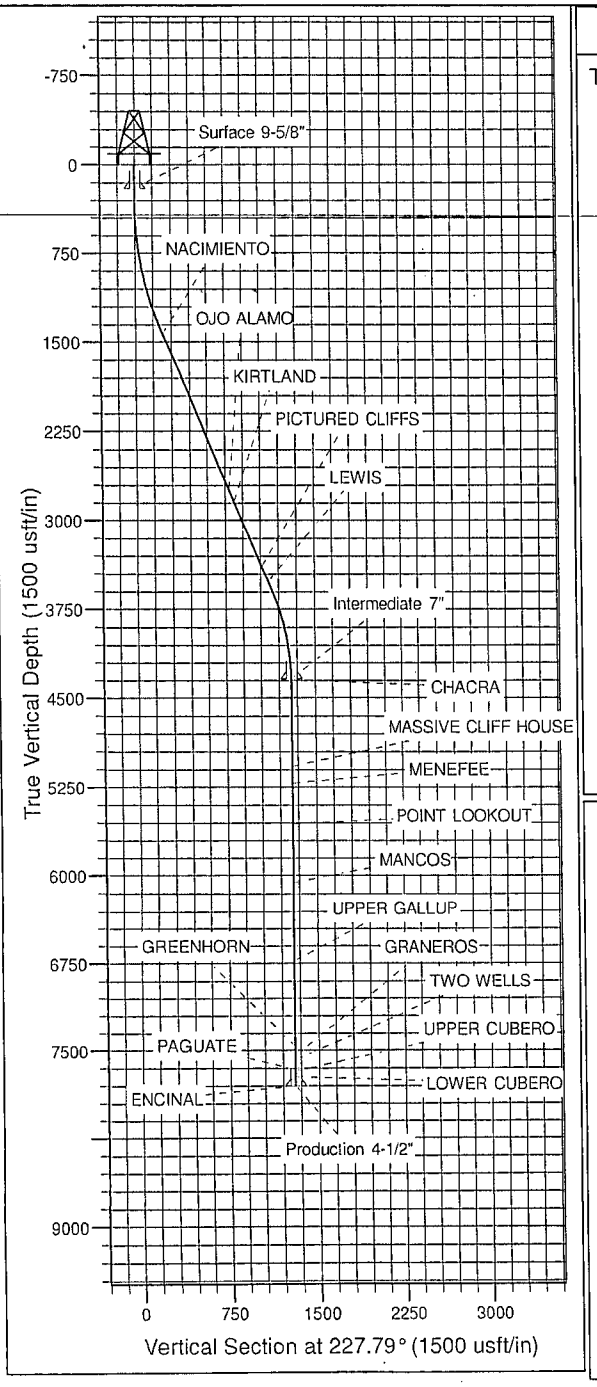
REFERENCE INFORMATION
WELL @ 6574.0usft (Original Well Elev)
Ground Elevation 6559.0
Reference Lat: 36° 37' 23.433 N
Reference Long: 107° 22' 38.360 W

Project: San Juan Basin - New Mexico Central
Site: San Juan 28 Wells
Well: San Juan 28-5 Unit 41P
Wellbore: Wellbore #1
Design: Design #1

ConocoPhillips

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1450.0	23.00	227.79	1419.4	-153.0	-168.7	2.00	227.79	227.7	
4	3810.5	23.00	227.79	3592.3	-772.7	-851.8	0.00	0.00	1150.1	
5	4577.2	0.00	0.00	4338.5	-874.7	-964.3	3.00	180.00	1301.9	
6	8043.7	0.00	0.00	7805.0	-874.7	-964.3	0.00	0.00	1301.9	SJ 28-5 Unit #41P BHL

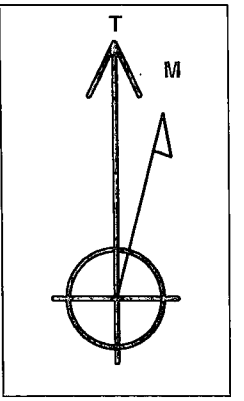


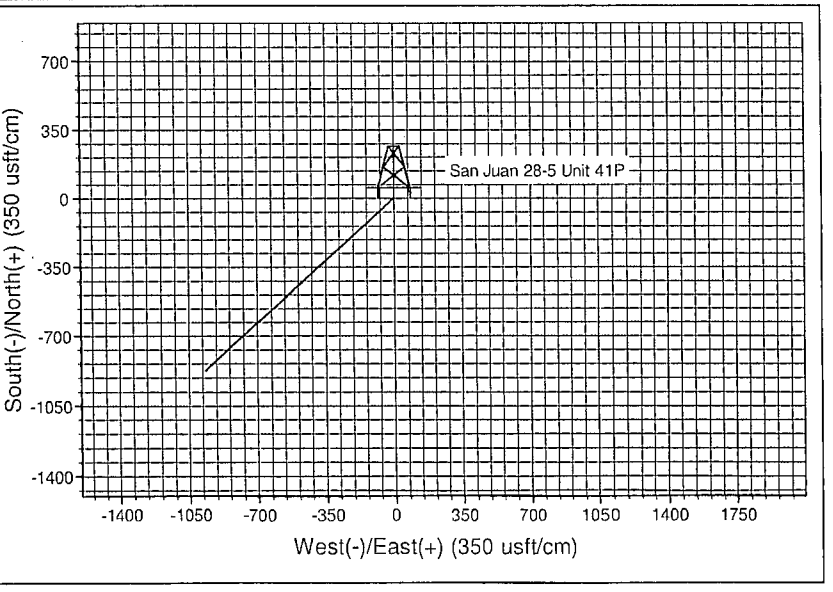
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
0.0	0.0	SAN JOSE
1430.0	1461.6	NACIMIENTO
2737.0	2881.4	OJO ALAMO
2840.0	2993.3	KIRTLAND
2987.0	3153.0	FRUITLAND
3389.0	3589.7	PICTURED CLIFFS
3515.0	3726.6	LEWIS
4346.0	4584.7	CHACRA
5076.0	5314.7	MASSIVE CLIFF HO
5219.0	5457.7	MENEFEE
5562.0	5800.7	POINT LOOKOUT
6063.0	6301.7	MANCOS
6732.0	6970.7	UPPER GALLUP
7472.0	7710.7	GREENHORN
7545.0	7783.7	GRANEROS
7578.0	7816.7	TWO WELLS
7662.0	7900.7	PAGUATE
7679.0	7917.7	UPPER CUBERO
7726.0	7964.7	LOWER CUBERO
7805.0	8043.7	ENCINAL

Azimuths to True North
Magnetic North: 9.44°

Magnetic Field
Strength: 50381.8snT
Dip Angle: 63.38°
Date: 2/26/2014
Model: BGGM2013





K. All operations will be conducted in such a manner that full compliance is made with the applicable laws and regulations, the Application for Permit to Drill, and applicable Notice(s) to Lessees.

VII. Methods for Handling Waste

✓ A. Cuttings, Drilling Fluids, and Flowback Water - The drill cuttings, drill water and completion fluids will be placed in a Closed Loop System. The free fluids will be trucked to an approved disposal facility as indicated in Burlington Resources Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office in Aztec, NM.

B. Garbage and other waste material - garbage, trash and other waste materials will be collected in a portable, self-contained and fully-enclosed trash container during drilling and completion operations. The accumulated trash will be removed, as needed, and will be disposed of at an authorized sanitary landfill. No trash will be buried or burned on location.

C. Sewage – self-contained, chemical toilets will be provided for human waste disposal. The toilet holding tanks will be pumped, as needed, and the contents thereof disposed of in an approved sewage disposal facility. The toilets will be onsite during all operations.

D. Immediately after drilling and completing activities have ceased, all debris and other waste materials not contained in the trash containers will be cleaned up and removed from the well location.

VIII. Ancillary Facilities

A. The proposed areas and access roads listed below could be utilized for staging of construction, drilling, and completion equipment to facilitate drilling operations. Additionally, staging could occur, within the permitted right-of-way, along the route shown on Sheet B and described on Sheet C. Staging could take place when the rig moves in or off location. Any proposed temporary use area will be returned to same or better condition than before operations began and will comply with the BLM FFO Bare Soil Reclamation Procedures.

1. San Juan 28-5 Unit 41 well pad-UL A, 815' FNL & 1090' FEL, Section 28, T31N, R12W (OnLease).

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-5 UNIT 41P

665' FNL & 1274' FEL (SURFACE)

1540' FNL & 2240' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.6231845° N

LONGITUDE: 107.3779241° W

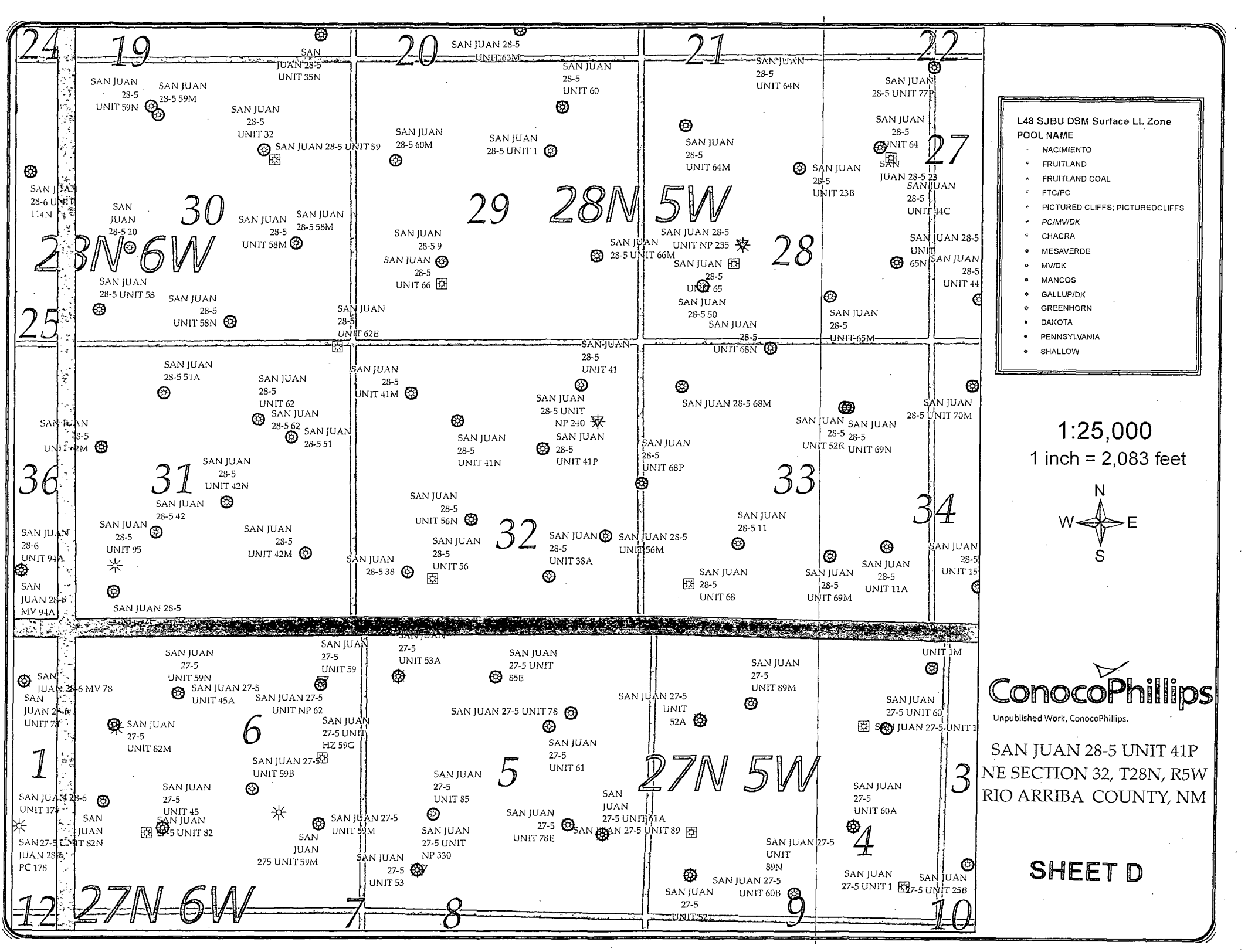
NAD 83

SECTION 32, T-28-N, R-5-W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 64
AND U.S. HIGHWAY 550 IN BLOOMFIELD, NEW MEXICO.

TRAVEL EASTERLY 31.5 MILES ON U.S. HIGHWAY 64.
TURN RIGHT ONTO WATER HOLE ROAD (MILE MARKER 96.3)
AND DRIVE SOUTHEASTERLY 0.7 MILES.
BEAR LEFT AT "Y" IN ROAD AND CONTINUE SOUTHEASTERLY 2.6 MILES.
TURN LEFT AT "Y" IN ROAD AND DRIVE EASTERLY 1.2 MILES.
TURN RIGHT AT "Y" IN ROAD
AND DRIVE SOUTHERLY & EASTERLY 1.1 MILES TO CATTLE GUARD.
TURN LEFT AT "Y" IN ROAD, AFTER PASSING CATTLE GUARD,
AND DRIVE SOUTHEASTERLY 1.0 MILE TO A 4-WAY INTERSECTION
AND DRIVE SOUTHEASTERLY 0.6 MILE.
TURN LEFT AT "Y" IN ROAD AND DRIVE SOUTHEASTERLY 0.6 MILE,
PASSING CHIMNEY LOOKING ROCK,
TO PROPOSED ACCESS ROAD LEADING TO
PROPOSED SAN JUAN 28-5 UNIT 41P WELL LOCATION


L48 SJBU DSM Surface LL Zone
POOL NAME
NACIMIENTO
FRUITLAND
FRUITLAND COAL
FTC/PC
PICTURED CLIFFS; PICTUREDCLIFFS
PC/MV/DK
CHACRA
MESAVERDE
MV/DK
MANCOS
GALLUP/DK
GREENHORN
DAKOTA
PENNSYLVANIA
SHALLOW
1:25,000
1 inch = 2,083 feet
N
W
E
S
ConocoPhillips
Unpublished Work, ConocoPhillips.
SAN JUAN 28-5 UNIT 41P
NE SECTION 32, T28N, R5W
RIO ARRIBA COUNTY, NM
SHEET D
28N 5W
27N 6W
27N 5W
SAN JUAN 28-5 UNIT 63M
SAN JUAN 28-5 UNIT 59
SAN JUAN 28-5 UNIT 1
SAN JUAN 28-5 UNIT NP 235
SAN JUAN 28-5 UNIT 66M
SAN JUAN 28-5 UNIT 58
SAN JUAN 28-5 UNIT 62E
SAN JUAN 28-5 UNIT 41
SAN JUAN 28-5 UNIT NP 240
SAN JUAN 28-5 UNIT 41P
SAN JUAN 28-5 UNIT 68M
SAN JUAN 28-5 UNIT 68P
SAN JUAN 28-5 UNIT 56M
SAN JUAN 28-5 UNIT 38A
SAN JUAN 28-5 UNIT 68
SAN JUAN 28-5 UNIT 95
SAN JUAN 28-5 UNIT 82M
SAN JUAN 27-5 UNIT 59
SAN JUAN 27-5 UNIT NP 62
SAN JUAN 27-5 UNIT HZ 59G
SAN JUAN 27-5 UNIT 59B
SAN JUAN 27-5 UNIT 78S
SAN JUAN 27-5 UNIT 61
SAN JUAN 27-5 UNIT 78E
SAN JUAN 27-5 UNIT 89
SAN JUAN 27-5 UNIT 89M
SAN JUAN 27-5 UNIT 52A
SAN JUAN 27-5 UNIT 89N
SAN JUAN 27-5 UNIT 60B
SAN JUAN 27-5 UNIT 52
SAN JUAN 27-5 UNIT 60
SAN JUAN 27-5 UNIT 1M
SAN JUAN 27-5 UNIT 60A
SAN JUAN 27-5 UNIT 1
SAN JUAN 27-5 UNIT 25B
SAN JUAN 28-5 UNIT 59N
SAN JUAN 28-5 59M
SAN JUAN 28-5 UNIT 32
SAN JUAN 28-5 UNIT 35N
SAN JUAN 28-5 UNIT 60
SAN JUAN 28-5 60M
SAN JUAN 28-5 UNIT 64N
SAN JUAN 28-5 UNIT 77P
SAN JUAN 28-5 UNIT 64
SAN JUAN 28-5 UNIT 64M
SAN JUAN 28-5 UNIT 23B
SAN JUAN 28-5 UNIT 44C
SAN JUAN 28-5 UNIT 65N
SAN JUAN 28-5 UNIT 44
SAN JUAN 28-5 UNIT 65
SAN JUAN 28-5 50
SAN JUAN 28-5 UNIT 65M
SAN JUAN 28-5 UNIT 58M
SAN JUAN 28-5 58M
SAN JUAN 28-5 UNIT 58N
SAN JUAN 28-5 9
SAN JUAN 28-5 UNIT 66
SAN JUAN 28-5 UNIT 41M
SAN JUAN 28-5 UNIT 41N
SAN JUAN 28-5 UNIT 56N
SAN JUAN 28-5 UNIT 56
SAN JUAN 28-5 38
SAN JUAN 28-5 UNIT 69N
SAN JUAN 28-5 UNIT 52R
SAN JUAN 28-5 UNIT 69M
SAN JUAN 28-5 UNIT 70M
SAN JUAN 28-5 UNIT 11A
SAN JUAN 28-5 UNIT 15
SAN JUAN 28-5 51A
SAN JUAN 28-5 UNIT 62
SAN JUAN 28-5 62
SAN JUAN 28-5 51
SAN JUAN 28-5 UNIT 42N
SAN JUAN 28-5 42
SAN JUAN 28-5 UNIT 42M
SAN JUAN 28-5 11
SAN JUAN 27-5 UNIT 53A
SAN JUAN 27-5 UNIT 85E
SAN JUAN 27-5 UNIT 59N
SAN JUAN 27-5 UNIT 45A
SAN JUAN 27-5 UNIT 85
SAN JUAN 27-5 UNIT 45
SAN JUAN 27-5 UNIT 82
SAN JUAN 27-5 UNIT 59M
SAN JUAN 27-5 UNIT NP 330
SAN JUAN 27-5 UNIT 53
SAN JUAN 28-6 UNIT 114N
SAN JUAN 28-6 UNIT 94A
SAN JUAN 28-6 MV 94A
SAN JUAN 28-6 MV 78
SAN JUAN 28-6 UNIT 78
SAN JUAN 28-6 UNIT 17S
SAN JUAN 28-6 PC 17S
SAN JUAN 28-5 20
SAN JUAN 28-5 UNIT 59M
SAN JUAN 28-5 UNIT 82N
SAN JUAN 28-5 UNIT 62M
SAN JUAN 28-5 UNIT 42M
SAN JUAN 28-5 UNIT 82
SAN JUAN 28-5 UNIT 59M
SAN JUAN 28-5 UNIT 58M
SAN JUAN 28-5 UNIT 58N
SAN JUAN 28-5 UNIT 62E
SAN JUAN 28-5 UNIT 66
SAN JUAN 28-5 UNIT 41M
SAN JUAN 28-5 UNIT 41N
SAN JUAN 28-5 UNIT 56N
SAN JUAN 28-5 UNIT 56
SAN JUAN 28-5 38
SAN JUAN 28-5 UNIT 68
SAN JUAN 28-5 UNIT 69N
SAN JUAN 28-5 UNIT 52R
SAN JUAN 28-5 UNIT 69M
SAN JUAN 28-5 UNIT 11A
SAN JUAN 28-5 UNIT 15
SAN JUAN 28-5 UNIT 70M
SAN JUAN 28-5 UNIT 68N
SAN JUAN 28-5 UNIT 65N
SAN JUAN 28-5 UNIT 44
SAN JUAN 28-5 UNIT 65
SAN JUAN 28-5 50
SAN JUAN 28-5 UNIT 65M
SAN JUAN 28-5 UNIT 44C
SAN JUAN 28-5 UNIT 64
SAN JUAN 28-5 23
SAN JUAN 28-5 UNIT 23B
SAN JUAN 28-5 UNIT 64M
SAN JUAN 28-5 UNIT 77P
SAN JUAN 28-5 UNIT 64N
SAN JUAN 28-5 UNIT 60
SAN JUAN 28-5 UNIT 1
SAN JUAN 28-5 UNIT 32
SAN JUAN 28-5 59M
SAN JUAN 28-5 UNIT 59N
SAN JUAN 28-5 UNIT 35N
SAN JUAN 28-5 UNIT 63M
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