

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: 2-10-14

Well information:

Operator Burlington, Well Name and Number San Juan 28-6 Unit # 128N

API# 30-039-31223 Section 17, Township 28 NS, Range 6 EW

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
- ☐ Hold C-104 for NSL, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ 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
- ☐ 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
- ☐ 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.

Charles Lerew
NMOCD Approved by Signature

5-15-2014
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-079192 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name NMNM- 7842A-MVNMMNM. 7842C- SAN JUAN 28-6 UNIT
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name OIL CONS. DIV DIST. 3 MAY 14 2014
4. Location of Well Surface: Unit B(NW/NE), 770' FNL & 1850' FEL BHL : Unit A(NE/NE), 320' FNL & 650' FEL Surface: Latitude: 36.66638° N (NAD83) Longitude: 107.48778° W BHL : Latitude: 36.66762° N (NAD83) Longitude: 107.48368° W	10. Field, Pool, Wildcat BLANCO MV/BASIN DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 17, T28N, R6W API # 30-039-31223
14. Distance in Miles from Nearest Town 10 MILES FROM GOVERNADOR	12. County RIO ARRIBA
15. Distance from Proposed Location to Nearest Property or Lease Line 650'	13. State NM
16. Acres in Lease 1920.000	17. Acres Assigned to Well 320.00 ACRES-E/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 100' SJ 28-6 #223 (PC)	
19. Proposed Depth 8109'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6811' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Arleen White</u> Arleen White (Staff Regulatory Tech)	<u>2/10/14</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

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

NMOCDA

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

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

AMENDED REPORT

MAR 10 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT **Farmington Field Office**

¹ API Number 30-039- 31223		² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
⁴ Property Code 7462	⁵ Property Name SAN JUAN 28-6 UNIT			⁶ Well Number 128N
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 6811'

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
B	17	28N	6W		770	NORTH	1850	EAST	RIO ABBIBA

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
A	17	28N	6W		320	NORTH	650	EAST	RIO ARRIBA

12 Dedicated Acres	320.0 Acres - E/2	13 Joint or Infill	14 Consolidation Code	15 Order No.
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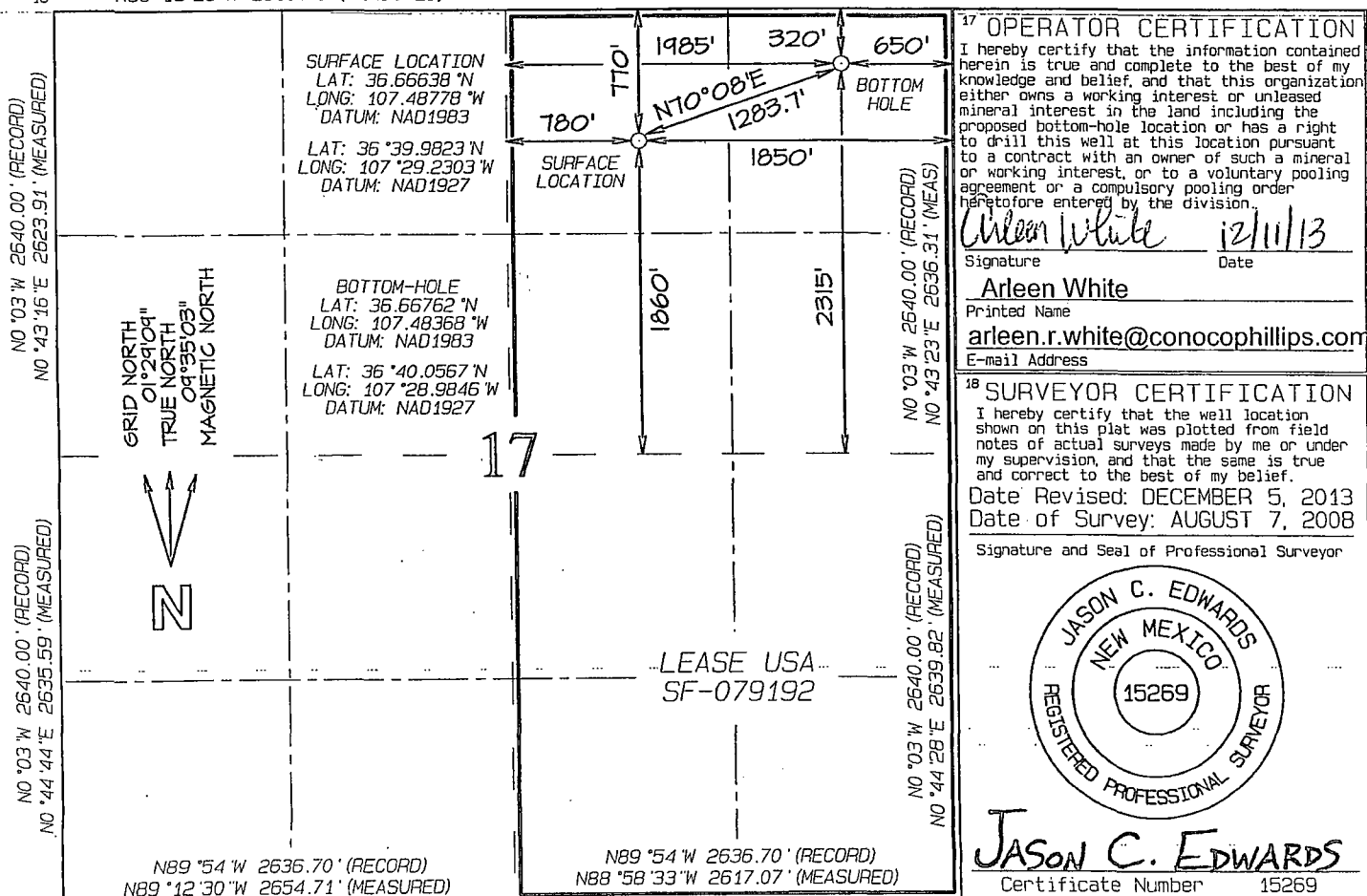
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

NR9°58'W 2637.36' (RECORD)

N89°58'W 2637.36' (RECORD)

N89°15'26"W 2636.66' (MEASURED)

N89°17'25"W 2634.96' (MEASURED)



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 128N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.3030				AFE \$:	
Field Name: SAN JUAN		Rig: 2014 Pushing Rig 2 (MV/DK)		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						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.666372	Longitude: -107.487175	X:	Y:	Section: 17	Range: 006W		
Footage X: 1850 FEL	Footage Y: 770 FNL	Elevation: 6811	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.667612	Longitude: -107.483076	X:	Y:	Section: 17	Range: 006W		
Footage X: 650 FEL	Footage Y: 320 FNL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2014		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6826 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6626		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1407	5419		☐			
OJO ALAMO	2876	3950		☐			
KIRTLAND	2981	3845		☐			
FRUITLAND	3276	3550		☐			Possible Gas
PICTURED CLIFFS	3654	3172		☐			
LEWIS	3836	2990		☐			
Intermediate Casing	4110	2716		☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 983 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4272	2554		☐			
CHACRA	4627	2199		☐			
MASSIVE CLIFF HOUSE	5321	1505		☐	380		Gas; Cliffhouse is dry
MENEFEE	5511	1315		☐			
POINT LOOKOUT	5831	995		☐			
MANCOS	6326	500		☐			
UPPER GALLUP	7066	-240		☐			
GREENHORN	7791	-965		☐			
GRANEROS	7852	-1026		☐			
TWO WELLS	7894	-1068		☐	2720		Gas
UPPER CUBERO	8001	-1175		☐			
LOWER CUBERO	8037	-1211		☐			Est bottom perf 8094' (15' off bottom)
ENCINAL	8108	-1282		☐			TD - T/ENCN

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 128N

DEVELOPMENT

Total Depth	8109	-1283	☐	200	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC/BTC casing. Cement w/ 525 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:

Reference Type	Well Name	Comments
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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. Est bottom perf 15' from TD.

Additional Information:

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

San Juan Basin - New Mexico Central Wells

San Juan 28 Wells

SJ 28-6 Unit #128N

Wellbore #1

Plan: Design #1

Standard Planning Report

08 January, 2014

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 Unit #128N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6826.0usft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	WELL @ 6826.0usft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 Unit #128N	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	SJ 28-6 Unit #128N					
Well Position	+N/-S	0.0 usft	Northing:	2,064,117.46 usft	Latitude:	36° 39' 58.938 N
	+E/-W	0.0 usft	Easting:	137,152.70 usft	Longitude:	107° 29' 13.818 W
Position Uncertainty	2.5 usft		Wellhead Elevation:	usft	Ground Level:	6,811.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	1/7/2014	9.50	63.40	50,407

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	69.40

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	
1,550.0	25.00	69.40	1,510.7	94.4	251.2	2.00	2.00	0.00	69.40	
3,527.6	25.00	69.40	3,303.1	388.5	1,033.6	0.00	0.00	0.00	0.00	
4,361.0	0.00	0.00	4,110.2	451.5	1,201.1	3.00	-3.00	0.00	180.00	
8,359.8	0.00	0.00	8,109.0	451.5	1,201.1	0.00	0.00	0.00	0.00	SJ 28-6 Unit #128N -

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico Central Wells
 Site: San Juan 28 Wells
 Well: SJ 28-6 Unit #128N
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 28-6 Unit #128N
 TVD Reference: WELL @ 6826.0usft (Original Well Elev)
 MD Reference: WELL @ 6826.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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
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
400.0	2.00	69.40	400.0	0.6	1.6	1.7	2.00	2.00	0.00
500.0	4.00	69.40	499.8	2.5	6.5	7.0	2.00	2.00	0.00
600.0	6.00	69.40	599.5	5.5	14.7	15.7	2.00	2.00	0.00
700.0	8.00	69.40	698.7	9.8	26.1	27.9	2.00	2.00	0.00
800.0	10.00	69.40	797.5	15.3	40.7	43.5	2.00	2.00	0.00
900.0	12.00	69.40	895.6	22.0	58.6	62.6	2.00	2.00	0.00
1,000.0	14.00	69.40	993.1	29.9	79.7	85.1	2.00	2.00	0.00
1,100.0	16.00	69.40	1,089.6	39.0	103.9	111.0	2.00	2.00	0.00
1,200.0	18.00	69.40	1,185.3	49.3	131.2	140.2	2.00	2.00	0.00
1,300.0	20.00	69.40	1,279.8	60.8	161.7	172.8	2.00	2.00	0.00
1,400.0	22.00	69.40	1,373.2	73.4	195.3	208.6	2.00	2.00	0.00
1,436.6	22.73	69.40	1,407.0	78.3	208.3	222.5	2.00	2.00	0.00
Nacimiento									
1,500.0	24.00	69.40	1,465.2	87.1	231.8	247.7	2.00	2.00	0.00
1,550.0	25.00	69.40	1,510.7	94.4	251.2	268.4	2.00	2.00	0.00
1,600.0	25.00	69.40	1,556.0	101.9	271.0	289.5	0.00	0.00	0.00
1,700.0	25.00	69.40	1,646.7	116.7	310.6	331.8	0.00	0.00	0.00
1,800.0	25.00	69.40	1,737.3	131.6	350.1	374.1	0.00	0.00	0.00
1,900.0	25.00	69.40	1,827.9	146.5	389.7	416.3	0.00	0.00	0.00
2,000.0	25.00	69.40	1,918.6	161.4	429.3	458.6	0.00	0.00	0.00
2,100.0	25.00	69.40	2,009.2	176.2	468.8	500.8	0.00	0.00	0.00
2,200.0	25.00	69.40	2,099.8	191.1	508.4	543.1	0.00	0.00	0.00
2,300.0	25.00	69.40	2,190.4	206.0	547.9	585.4	0.00	0.00	0.00
2,400.0	25.00	69.40	2,281.1	220.8	587.5	627.6	0.00	0.00	0.00
2,500.0	25.00	69.40	2,371.7	235.7	627.1	669.9	0.00	0.00	0.00
2,600.0	25.00	69.40	2,462.3	250.6	666.6	712.2	0.00	0.00	0.00
2,700.0	25.00	69.40	2,553.0	265.4	706.2	754.4	0.00	0.00	0.00
2,800.0	25.00	69.40	2,643.6	280.3	745.7	796.7	0.00	0.00	0.00
2,900.0	25.00	69.40	2,734.2	295.2	785.3	838.9	0.00	0.00	0.00
3,000.0	25.00	69.40	2,824.9	310.1	824.9	881.2	0.00	0.00	0.00
3,056.4	25.00	69.40	2,876.0	318.4	847.2	905.1	0.00	0.00	0.00
Ojo Alamo									
3,100.0	25.00	69.40	2,915.5	324.9	864.4	923.5	0.00	0.00	0.00
3,172.3	25.00	69.40	2,981.0	335.7	893.0	954.0	0.00	0.00	0.00
Kirtland									
3,200.0	25.00	69.40	3,006.1	339.8	904.0	965.7	0.00	0.00	0.00
3,300.0	25.00	69.40	3,096.8	354.7	943.5	1,008.0	0.00	0.00	0.00
3,400.0	25.00	69.40	3,187.4	369.5	983.1	1,050.3	0.00	0.00	0.00
3,497.8	25.00	69.40	3,276.0	384.1	1,021.8	1,091.6	0.00	0.00	0.00
Fruitland									
3,500.0	25.00	69.40	3,278.0	384.4	1,022.7	1,092.5	0.00	0.00	0.00
3,527.6	25.00	69.40	3,303.1	388.5	1,033.6	1,104.2	0.00	0.00	0.00
3,600.0	22.83	69.40	3,369.2	398.8	1,061.0	1,133.5	3.00	-3.00	0.00
3,700.0	19.83	69.40	3,462.3	411.6	1,095.1	1,169.9	3.00	-3.00	0.00
3,800.0	16.83	69.40	3,557.3	422.7	1,124.5	1,201.3	3.00	-3.00	0.00
3,900.0	13.83	69.40	3,653.7	432.0	1,149.3	1,227.8	3.00	-3.00	0.00
3,900.3	13.82	69.40	3,654.0	432.0	1,149.3	1,227.8	3.00	-3.00	0.00
Pictured Cliffs									

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico Central Wells
Site: San Juan 28 Wells
Well: SJ 28-6 Unit #128N
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 28-6 Unit #128N
TVD Reference: WELL @ 6826.0usft (Original Well Elev)
MD Reference: WELL @ 6826.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
4,000.0	10.83	69.40	3,751.4	439.5	1,169.2	1,249.1	3.00	-3.00	0.00
4,085.8	8.25	69.40	3,836.0	444.5	1,182.6	1,263.3	3.00	-3.00	0.00
Lewis									
4,100.0	7.83	69.40	3,850.0	445.2	1,184.4	1,265.3	3.00	-3.00	0.00
4,200.0	4.83	69.40	3,949.4	449.1	1,194.7	1,276.4	3.00	-3.00	0.00
4,300.0	1.83	69.40	4,049.2	451.1	1,200.2	1,282.2	3.00	-3.00	0.00
4,360.8	0.01	69.40	4,110.0	451.5	1,201.1	1,283.1	3.00	-3.00	0.00
Intermediate									
4,361.0	0.00	0.00	4,110.2	451.5	1,201.1	1,283.1	3.00	-3.00	0.00
4,400.0	0.00	0.00	4,149.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,249.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
4,522.8	0.00	0.00	4,272.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Huerfano Bentonite									
4,600.0	0.00	0.00	4,349.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,449.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
4,800.0	0.00	0.00	4,549.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
4,877.8	0.00	0.00	4,627.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Chacra									
4,900.0	0.00	0.00	4,649.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,749.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,100.0	0.00	0.00	4,849.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,200.0	0.00	0.00	4,949.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,049.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,149.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,249.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,571.8	0.00	0.00	5,321.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Massive Cliff House									
5,600.0	0.00	0.00	5,349.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,449.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,761.8	0.00	0.00	5,511.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Menefee									
5,800.0	0.00	0.00	5,549.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,649.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,749.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,081.8	0.00	0.00	5,831.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Point Lookout									
6,100.0	0.00	0.00	5,849.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,200.0	0.00	0.00	5,949.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,049.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,149.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,249.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,576.8	0.00	0.00	6,326.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Mancos									
6,600.0	0.00	0.00	6,349.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,449.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,549.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,649.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,749.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,100.0	0.00	0.00	6,849.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,200.0	0.00	0.00	6,949.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,049.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,316.8	0.00	0.00	7,066.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico Central Wells
 Site: San Juan 28 Wells
 Well: SJ 28-6 Unit #128N
 Wellbore: Wellbore #1
 Design: Design #1

Local Co-ordinate Reference: Well SJ 28-6 Unit #128N
 TVD Reference: WELL @ 6826.0usft (Original Well Elev)
 MD Reference: WELL @ 6826.0usft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
Upper Gallup									
7,400.0	0.00	0.00	7,149.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,249.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,349.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,449.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,549.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,649.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,749.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
8,041.8	0.00	0.00	7,791.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Greenhorn									
8,100.0	0.00	0.00	7,849.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
8,102.8	0.00	0.00	7,852.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Graneros									
8,144.8	0.00	0.00	7,894.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Two Wells									
8,200.0	0.00	0.00	7,949.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
8,251.8	0.00	0.00	8,001.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Upper Cubero									
8,287.8	0.00	0.00	8,037.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Lower Cubero									
8,300.0	0.00	0.00	8,049.2	451.5	1,201.1	1,283.1	0.00	0.00	0.00
8,358.8	0.00	0.00	8,108.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Encinal									
8,359.8	0.00	0.00	8,109.0	451.5	1,201.1	1,283.1	0.00	0.00	0.00
Production									

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
SJ 28-6 Unit #128N - C-	0.00	0.00	8,109.0	451.5	1,201.1	2,064,553.43	138,359.57	36° 40' 3.402 N	107° 28' 59.076 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
200.0	200.0	Surface	9-5/8	12-1/4
4,360.8	4,110.0	Intermediate	7	8-3/4
8,359.8	8,109.0	Production	4-1/2	6-1/4

ConocoPhillips

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico Central Wells
Site: San Juan 28 Wells
Well: SJ 28-6 Unit #128N
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well SJ 28-6 Unit #128N
TVD Reference: WELL @ 6826.0usft (Original Well Elev)
MD Reference: WELL @ 6826.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,085.8	3,836.0	Lewis		0.00	
3,056.4	2,876.0	Ojo Alamo		0.00	
5,571.8	5,321.0	Massive Cliff House		0.00	
7,316.8	7,066.0	Upper Gallup		0.00	
4,877.8	4,627.0	Chacra		0.00	
6,576.8	6,326.0	Mancos		0.00	
3,900.3	3,654.0	Pictured Cliffs		0.00	
1,436.6	1,407.0	Nacimiento		0.00	
8,251.8	8,001.0	Upper Cubero		0.00	
3,172.3	2,981.0	Kirtland		0.00	
8,358.8	8,108.0	Encinal		0.00	
6,081.8	5,831.0	Point Lookout		0.00	
8,144.8	7,894.0	Two Wells		0.00	
8,102.8	7,852.0	Graneros		0.00	
8,041.8	7,791.0	Greenhorn		0.00	
3,497.8	3,276.0	Fruitland		0.00	
8,287.8	8,037.0	Lower Cubero		0.00	
5,761.8	5,511.0	Menefee		0.00	
4,522.8	4,272.0	Huerfanito Bentonite		0.00	

REFERENCE INFORMATION

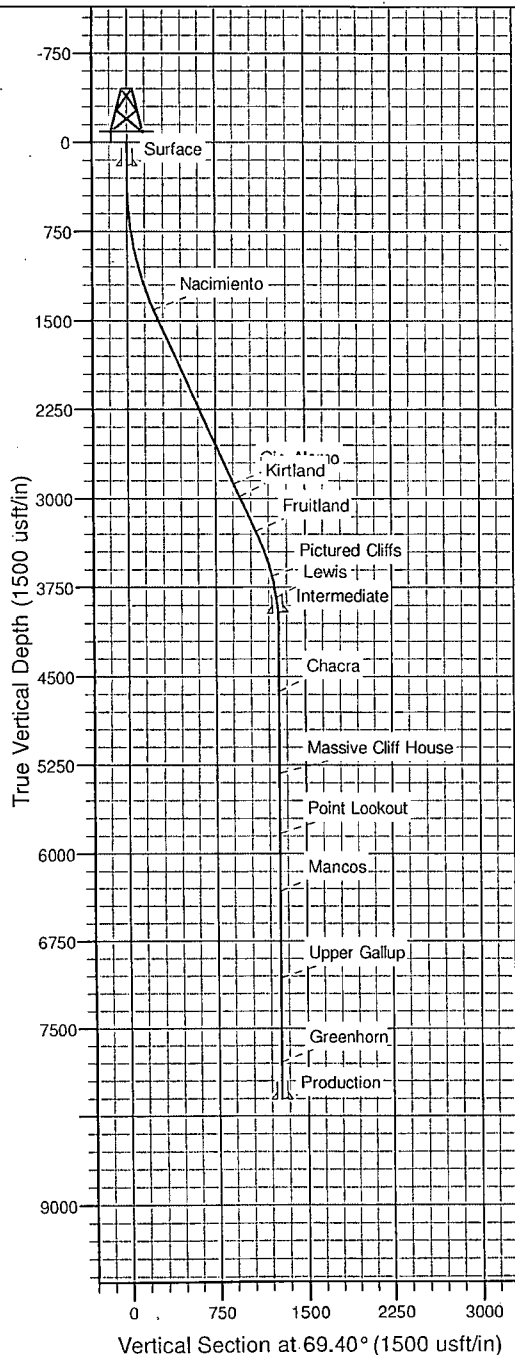
WELL @ 6826.0usft (Original Well Elev)
Ground Elevation 6811.0
Reference Lat: 36° 39' 58.938 N
Reference Long: 107° 29' 13.818 W

Project: San Juan Basin - New Mexico Central
Site: San Juan 28 Wells
Well: SJ 28-6 Unit #128N
Wellbore: Wellbore #1
Design: Design #1



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	1550.0	25.00	69.40	1510.7	94.4	251.2	2.00	69.40	268.4	
4	3527.6	25.00	69.40	3303.1	388.5	1033.6	0.00	0.00	1104.2	
5	4361.0	0.00	0.00	4110.2	451.5	1201.1	3.00	180.00	1283.1	
6	8359.8	0.00	0.00	8109.0	451.5	1201.1	0.00	0.00	1283.1	SJ 28-6 Unit #128N - C-102 BHL

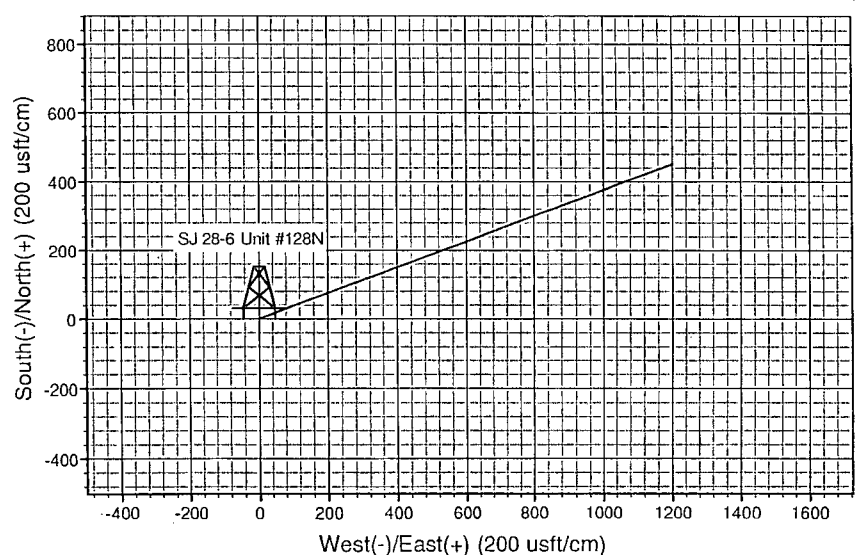
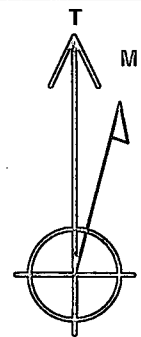


FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
1407.0	1436.6	Nacimiento
2876.0	3056.4	Ojo Alamo
2981.0	3172.3	Kirtland
3276.0	3497.8	Fruitland
3654.0	3900.3	Pictured Cliffs
3836.0	4085.8	Lewis
4272.0	4522.8	Huerfano Bentonite
4627.0	4877.8	Chacra
5321.0	5571.8	Massive Cliff House
5511.0	5761.8	Menefee
5831.0	6081.8	Point Lookout
6326.0	6576.8	Mancos
7066.0	7316.8	Upper Gallup
7791.0	8041.8	Greenhorn
7852.0	8102.8	Graneros
7894.0	8144.8	Two Wells
8001.0	8251.8	Upper Cubero
8037.0	8287.8	Lower Cubero
8108.0	8358.8	Encinal

Azimuths to True North
Magnetic North: 9.50°

Magnetic Field
Strength: 50406.5snT
Dip Angle: 63.40°
Date: 1/7/2014
Model: BGGM2013



L. 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 lined reserve pit. The pit will be lined with 20m gage pit liner. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The free fluids will be removed after completion or may be trucked and reused in drilling operations or trucked to an approved disposal facility as indicated in ConocoPhillips 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 described on Sheet C. Staging could take place when the rig moves in or off location. These locations may be used for staging purposes for any other operation within the lease as needed. Any proposed temporary use area will be returned to same or better condition than before

Directions from the Intersection of US Hwy 550 South & US Hwy 64 in Bloomfield, NM

to Burlington Resources Oil & Gas Company San Juan 28-6 Unit #128N

770' FNL & 1850' FEL, Section 17, T28N, R6W, N.M.P.M., Rio Arriba County, NM

Latitude: 36.66638°N Longitude: 107.48778°W Datum: NAD1983

From the intersection of US Hwy 550 South & US Hwy 64 in Bloomfield, NM, travel Easterly on US Hwy 64 for 31.9 miles to the San Juan 29-6 Water Well #1 @ Milepost 96.3;

Go right (South-easterly) on Trunk-L Road for 2.0 miles to fork in road;

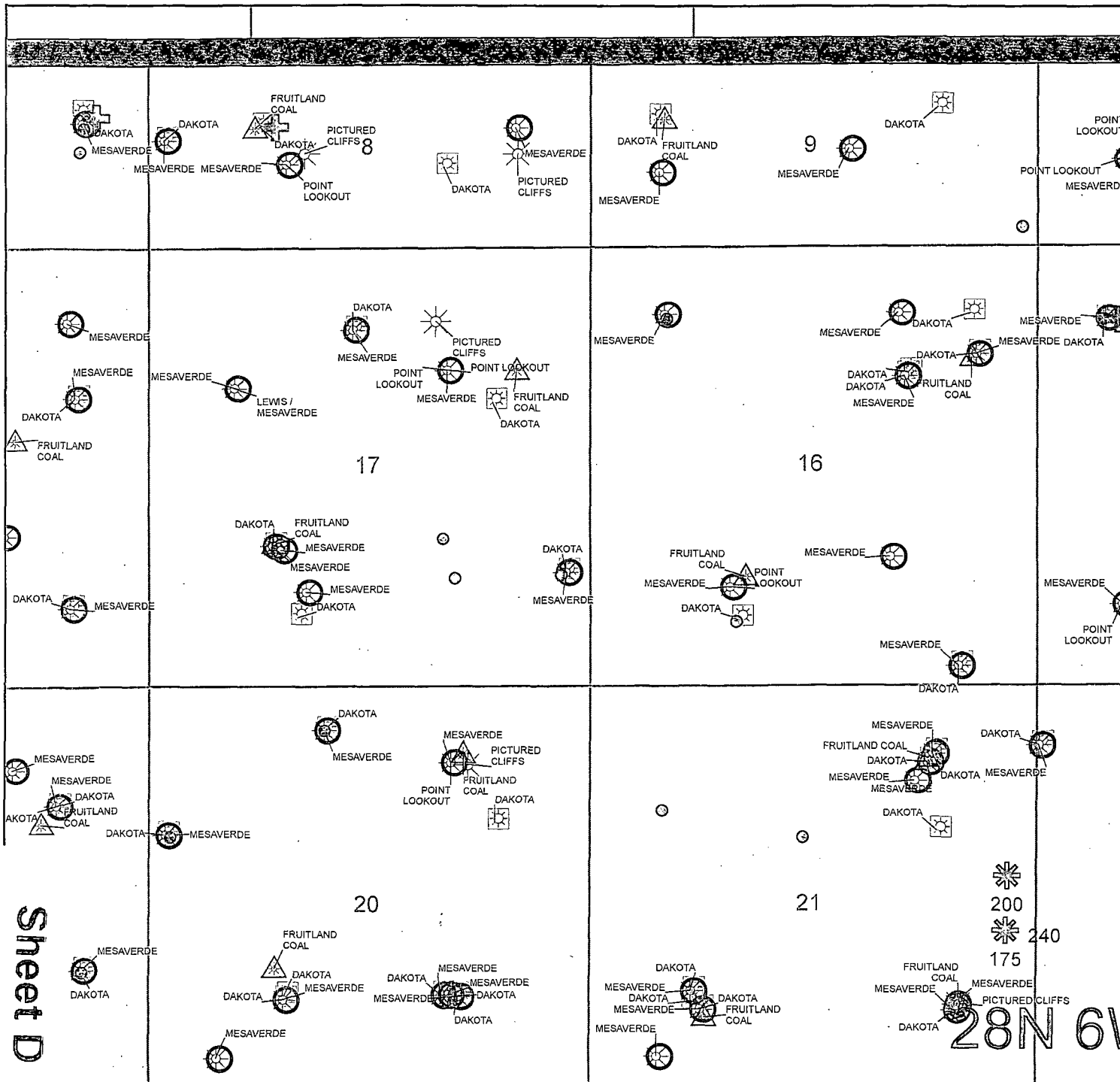
Go right (South-westerly) for 1.3 miles to fork in road at top of Snake Hill;

Go right (North-westerly) for 1.7 miles to fork in road;

Go left (South-westerly) for 0.4 miles to fork in road;

Go left (South-easterly) for 0.1 miles to staked location on left-hand side of existing roadway which overlaps an existing wellpad.

Title



Sheet D

ConocoPhillips	
San Juan 28-6 Unit 128N	
Map 1A	
Sec 17, T28N, 6W	
Author:	Date: 2/4/2014
Compiled by:	Scale:

