

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 06 2008

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NMSF USA NM-080673 Unit Reporting Number RCVD NOV 20 '08	
1b. Type of Well GAS	6. If Indian, All. or Tribe OIL CONS. DIV.	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name DIST. 3 San Juan 27-4 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #42F	
4. Location of Well Unit B (NWNE), 280' FNL & 2266' FEL Unit C (NENW), 890' FNL & 1955' FWL Latitude 36. 35.5476400 Longitude 107. 16.5220700	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) B Sec. 8, T27N, R4W C SEC. 8, T27N, R4W API # 30 039-30569	
14. Distance in Miles from Nearest Town 52.7 Miles/Bloomfeild, NM	12. County Rio Aribba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 390'	17. Acres Assigned to Well DK 320.00 W/2	
16. Acres in Lease 2561.110	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1450' from SJ 27-4 Unit 125	22. Approx. Date Work will Start	
19. Proposed Depth 8179'		
21. Elevations (DF, FT, GR, Etc.) 6859.7' GL		
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Jamie Goodwin Jamie Goodwin (Regulatory Technician)	12/3/07 Date	

PERMIT NO.

APPROVAL DATE

NOV 18 2008

APPROVED BY Original Signed: Stephen Mason

TITLE

DATE

NOV 18 2008

Archaeological Report attached

Threatened and Endangered Species Report attached

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

The 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

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

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

NOV 24 2008

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT
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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-305609	² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7452	⁵ Property Name SAN JUAN 27-4	⁶ Well Number 42F
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY	⁹ Elevation 6859.7'

¹⁰ SURFACE LOCATION

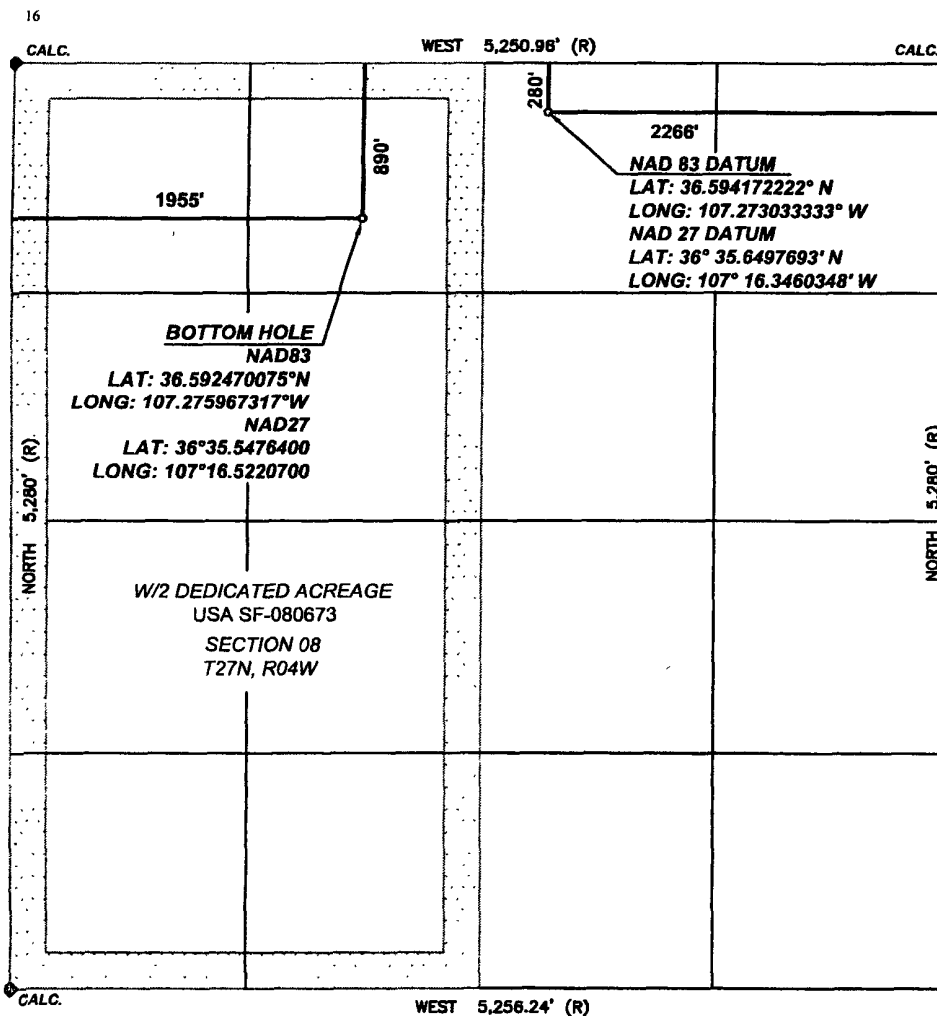
UL or lot no. B	Section 08	Township 27N	Range 04W	Lot Idn	Feet from the 280	North/South line NORTH	Feet from the 2266	East/West line EAST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. C	Section 08	Township 27N	Range 04W	Lot Idn	Feet from the 890	North/South line NORTH	Feet from the 1955	East/West line WEST	County RIO ARRIBA
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¹² Dedicated Acres 320 W2	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



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
Rhonda Rogers

Printed Name
Regulatory Technician

Title and E-mail Address
December 12 2006

Date

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: 11/16/06
Signature and Seal of Professional Surveyor:

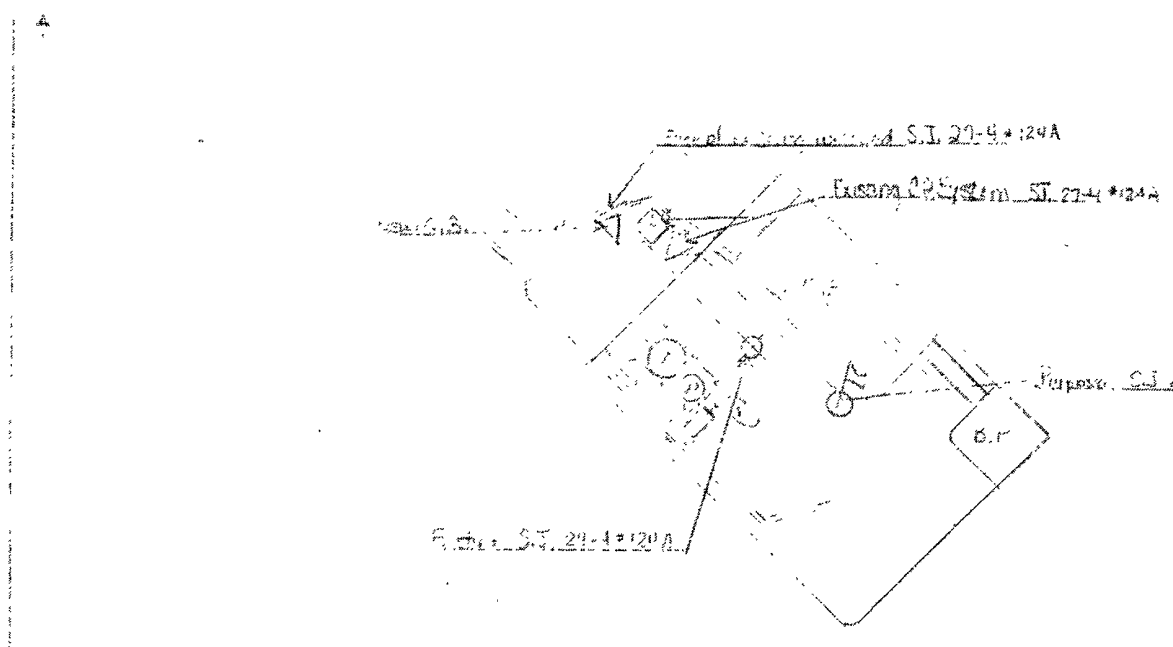
Certificate Number: NM 11393



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S.I. 27-4-124A LEGALS D-3-27-4 COUNTY Blaine

PURPOSED C.P. SYSTEM: Drill new G.B. on north edge of existing location
to serve area of 1/2 acre existing 7/8 acre. New existing 500' for up to 1/2 acre. As
the area is 1/2 acre. (Note: 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2
acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2



EXISTING WELL HEAD	METER HOUSE	S.I.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: 1/2 acre existing 7/8 acre. New existing 500' for up to 1/2 acre. As
the area is 1/2 acre. (Note: 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2 acre is 1/2 acre. 1/2

NEAREST POWER SOURCE _____ DISTANCE: _____
PIPELINES IN AREA: WFS

TECHNICIAN: Michael J. Jones DATE: 9/26/06

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 42F

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.7580				AFE \$: 1,043,860.91	
Field Name: hBR_SAN JUAN 27-4 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.594163	Longitude: -107.272431	X:	Y:	Section: 08		Range: 004W	
Footage X: 2266 FEL	Footage Y: 280 FNL	Elevation: 6860 (FT)		Township: 027N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.592461	Longitude: -107.275368	X:	Y:	Section: 08		Range: 004W	
Footage X: 1955 FWL	Footage Y: 890 FNL	Elevation:		(FT) Township: 027N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6876 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6676	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 171 cu ft. Circulate cement to surface.	
OJAM	3148	3728	☐				
KRLD	3296	3580	☐				
FRLD	3395	3481	☐			Possible Gas	
PCCF	3722	3154	☐				
LEWS	3842	3034	☐				
Intermediate Casing	3942	2934	☐			8-3/4" hole. 7", 23 ppf, L-80, LTC Casing. Cement with 1110 cu ft. Circulate cement to surface.	
HUERFANITO BENTONITE	4240	2636	☐				
CHRA	4680	2196	☐				
UCLFH	5286	1590	☐			Gas	
MASSIVE CLIFF HOUSE	5464	1412	☐	776		Gas	
MENF	5525	1351	☐				
PTLK	5878	998	☐				
MNCS	6429	447	☐				
GLLP	7058	-182	☐				
GRHN	7834	-958	☐				
GRRS	7900	-1024	☐				
TWLS	7944	-1068	☐	1300		Gas	
PAGU	8025	-1149	☐				
CBRO	8051	-1175	☐				
CBRL	8096	-1220	☐				
OAK CANYON	8153	-1277	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-4 UNIT 42F

DEVELOPMENT

ENCINAL	8179	-1303	☐	TD T/ENCN
Total Depth	8179	-1303	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LTC casing. Cement w/ 577 cu ft. Circulate cement a minimum of 100' inside the previous casing string. Cased hole TDT with GR to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	27-4 124A	NW 8-27N-4W
Production	27-4 #39	SW 5-27N-4W

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
GR_CBL, Mudlogger 100' above GRHN to TD	

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

Comments: Location/Tops/Logging - DK 27N04W08NW2, MUDLOG 100' above GRHN to TD

Zones - DK 27N04W08NW2

General/Work Description - Directional Well - Forest Well

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #42F
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #42F	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #42F		
Design:	APD Directional Plan		

Planned Survey

Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
0.0	0.00	239.36	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	239.36	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	239.36	200.0	0.0	0.0	0.0	0.00	0.00	0.00
215.0	0.00	239.36	215.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
300.0	0.00	239.36	300.0	0.0	0.0	0.0	0.00	0.00	0.00
350.0	0.00	239.36	350.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.00	239.36	400.0	-0.2	-0.4	0.4	2.00	2.00	0.00
500.0	3.00	239.36	499.9	-2.0	-3.4	3.9	2.00	2.00	0.00
600.0	5.00	239.36	599.7	-5.6	-9.4	10.9	2.00	2.00	0.00
700.0	7.00	239.36	699.1	-10.9	-18.4	21.4	2.00	2.00	0.00
800.0	9.00	239.36	798.2	-18.0	-30.3	35.3	2.00	2.00	0.00
900.0	11.00	239.36	896.6	-26.8	-45.3	52.6	2.00	2.00	0.00
1,000.0	13.00	239.36	994.4	-37.4	-63.2	73.4	2.00	2.00	0.00
1,100.0	15.00	239.36	1,091.5	-49.7	-84.0	97.6	2.00	2.00	0.00
1,200.0	17.00	239.36	1,187.6	-63.8	-107.7	125.2	2.00	2.00	0.00
1,300.0	19.00	239.36	1,282.7	-79.5	-134.3	156.1	2.00	2.00	0.00
1,400.0	21.00	239.36	1,376.6	-97.0	-163.7	190.3	2.00	2.00	0.00
1,500.0	23.00	239.36	1,469.4	-116.0	-196.0	227.7	2.00	2.00	0.00
1,600.0	25.00	239.36	1,560.7	-136.8	-230.9	268.4	2.00	2.00	0.00
1,623.6	25.47	239.36	1,582.1	-141.9	-239.6	278.5	2.00	2.00	0.00
1,700.0	25.47	239.36	1,651.0	-158.6	-267.9	311.3	0.00	0.00	0.00
1,800.0	25.47	239.36	1,741.3	-180.6	-304.9	354.3	0.00	0.00	0.00
1,900.0	25.47	239.36	1,831.6	-202.5	-341.9	397.3	0.00	0.00	0.00
2,000.0	25.47	239.36	1,921.9	-224.4	-378.9	440.4	0.00	0.00	0.00
2,100.0	25.47	239.36	2,012.1	-246.3	-415.9	483.4	0.00	0.00	0.00
2,200.0	25.47	239.36	2,102.4	-268.2	-452.9	526.4	0.00	0.00	0.00
2,300.0	25.47	239.36	2,192.7	-290.1	-489.9	569.4	0.00	0.00	0.00
2,400.0	25.47	239.36	2,283.0	-312.1	-526.9	612.4	0.00	0.00	0.00
2,500.0	25.47	239.36	2,373.3	-334.0	-563.9	655.4	0.00	0.00	0.00
2,600.0	25.47	239.36	2,463.5	-355.9	-600.9	698.4	0.00	0.00	0.00
2,700.0	25.47	239.36	2,553.8	-377.8	-637.9	741.4	0.00	0.00	0.00
2,800.0	25.47	239.36	2,644.1	-399.7	-674.9	784.4	0.00	0.00	0.00
2,900.0	25.47	239.36	2,734.4	-421.6	-711.9	827.4	0.00	0.00	0.00
3,000.0	25.47	239.36	2,824.7	-443.6	-748.9	870.4	0.00	0.00	0.00
3,100.0	25.47	239.36	2,914.9	-465.5	-786.0	913.4	0.00	0.00	0.00
3,200.0	25.47	239.36	3,005.2	-487.4	-823.0	956.5	0.00	0.00	0.00
3,300.0	25.47	239.36	3,095.5	-509.3	-860.0	999.5	0.00	0.00	0.00
3,327.8	25.47	239.36	3,120.6	-515.4	-870.3	1,011.4	0.00	0.00	0.00
3,344.8	24.96	239.36	3,136.0	-519.1	-876.5	1,018.7	3.00	-3.00	0.00
Ojo Alamo									
3,400.0	23.31	239.36	3,186.3	-530.6	-895.9	1,041.2	3.00	-3.00	0.00
3,500.0	20.31	239.36	3,279.2	-549.5	-927.9	1,078.4	3.00	-3.00	0.00
3,553.9	18.69	239.36	3,330.0	-558.7	-943.3	1,096.4	3.00	-3.00	0.00
Kirtland									
3,600.0	17.31	239.36	3,373.8	-565.9	-955.6	1,110.6	3.00	-3.00	0.00
3,700.0	14.31	239.36	3,470.0	-579.8	-979.0	1,137.8	3.00	-3.00	0.00
3,773.9	12.09	239.36	3,542.0	-588.4	-993.6	1,154.7	3.00	-3.00	0.00
Fruitland									
3,800.0	11.31	239.36	3,567.5	-591.1	-998.1	1,160.0	3.00	-3.00	0.00
3,900.0	8.31	239.36	3,666.1	-599.8	-1,012.8	1,177.0	3.00	-3.00	0.00
3,931.2	7.37	239.36	3,697.0	-602.0	-1,016.4	1,181.3	3.00	-3.00	0.00
Pictured Cliffs									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #42F
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #42F	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #42F		
Design:	APD Directional Plan		

Planned Survey

Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
4,000.0	5.31	239.36	3,765.3	-605.8	-1,023.0	1,188.9	3.00	-3.00	0.00
4,090.9	2.58	239.36	3,856.0	-609.0	-1,028.3	1,195.1	3.00	-3.00	0.00
Lewis									
4,100.0	2.31	239.36	3,865.1	-609.2	-1,028.7	1,195.5	3.00	-3.00	0.00
4,176.9	0.00	239.36	3,942.0	-610.0	-1,030.0	1,197.1	3.00	-3.00	0.00
7" - SJ 27-4 #42F ICP									
4,200.0	0.00	239.36	3,965.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,300.0	0.00	239.36	4,065.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,400.0	0.00	239.36	4,165.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,446.9	0.00	239.36	4,212.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Huerfano Bentonite									
4,500.0	0.00	239.36	4,265.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,600.0	0.00	239.36	4,365.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,700.0	0.00	239.36	4,465.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,800.0	0.00	239.36	4,565.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,900.0	0.00	239.36	4,665.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4,919.9	0.00	239.36	4,685.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Chacra									
5,000.0	0.00	239.36	4,765.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,100.0	0.00	239.36	4,865.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,200.0	0.00	239.36	4,965.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,300.0	0.00	239.36	5,065.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,400.0	0.00	239.36	5,165.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,500.0	0.00	239.36	5,265.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,546.9	0.00	239.36	5,312.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Upper Cliffhouse									
5,600.0	0.00	239.36	5,365.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,666.9	0.00	239.36	5,432.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Mass. Cliffhouse									
5,700.0	0.00	239.36	5,465.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,794.9	0.00	239.36	5,560.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Menefee									
5,800.0	0.00	239.36	5,565.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
5,900.0	0.00	239.36	5,665.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,000.0	0.00	239.36	5,765.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,100.0	0.00	239.36	5,865.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,120.9	0.00	239.36	5,886.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Pt. Lookout									
6,200.0	0.00	239.36	5,965.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,300.0	0.00	239.36	6,065.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,400.0	0.00	239.36	6,165.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,500.0	0.00	239.36	6,265.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,600.0	0.00	239.36	6,365.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,636.9	0.00	239.36	6,402.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Mancos Shale									
6,700.0	0.00	239.36	6,465.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,800.0	0.00	239.36	6,565.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
6,900.0	0.00	239.36	6,665.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,000.0	0.00	239.36	6,765.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,100.0	0.00	239.36	6,865.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,200.0	0.00	239.36	6,965.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,253.9	0.00	239.36	7,019.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #42F
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #42F	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #42F		
Design:	APD Directional Plan		

Planned Survey

Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)
Gallup									
7,300.0	0 00	239.36	7,065.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,400.0	0.00	239.36	7,165.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,500.0	0 00	239.36	7,265.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,600.0	0.00	239.36	7,365.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,700.0	0.00	239.36	7,465.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,800.0	0.00	239.36	7,565.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
7,900.0	0.00	239.36	7,665.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,000.0	0.00	239.36	7,765.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,060.9	0 00	239.36	7,826.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Greenhorn									
8,100.0	0 00	239.36	7,865.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,119.9	0.00	239.36	7,885.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Graneros									
8,151.9	0.00	239.36	7,917.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Two Wells									
8,200.0	0 00	239.36	7,965.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,274.9	0.00	239.36	8,040.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Upper Cubero									
8,300.0	0.00	239.36	8,065.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,317.9	0 00	239.36	8,083.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
Lower Cubero									
8,381.9	0.00	239.36	8,147.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
TD - Encinal									
8,400.0	0 00	239.36	8,165.1	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
8,413.8	0.00	239.36	8,178.9	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
4 1/2"									
8,413.9	0.00	239.36	8,179.0	-610.0	-1,030.0	1,197.1	0.00	0.00	0.00
SJ 27-4 #42F PCP									

Targets

Target Name	Dip Angle (d)	Dip Dir (d)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
- hit/miss target									
- Shape									
SJ 27-4 #42F ICP	0.00	0 00	3,942.0	-610.0	-1,030.0	620,193.41	202,276.55	36° 35' 26.636" N	107° 16' 33.392" W
- plan hits target									
- Point									
SJ 27-4 #42F PCP	0 00	0 00	8,179.0	-610.0	-1,030.0	620,193.41	202,276.55	36° 35' 26.636" N	107° 16' 33.392" W
- plan hits target									
- Point									

Casing Points

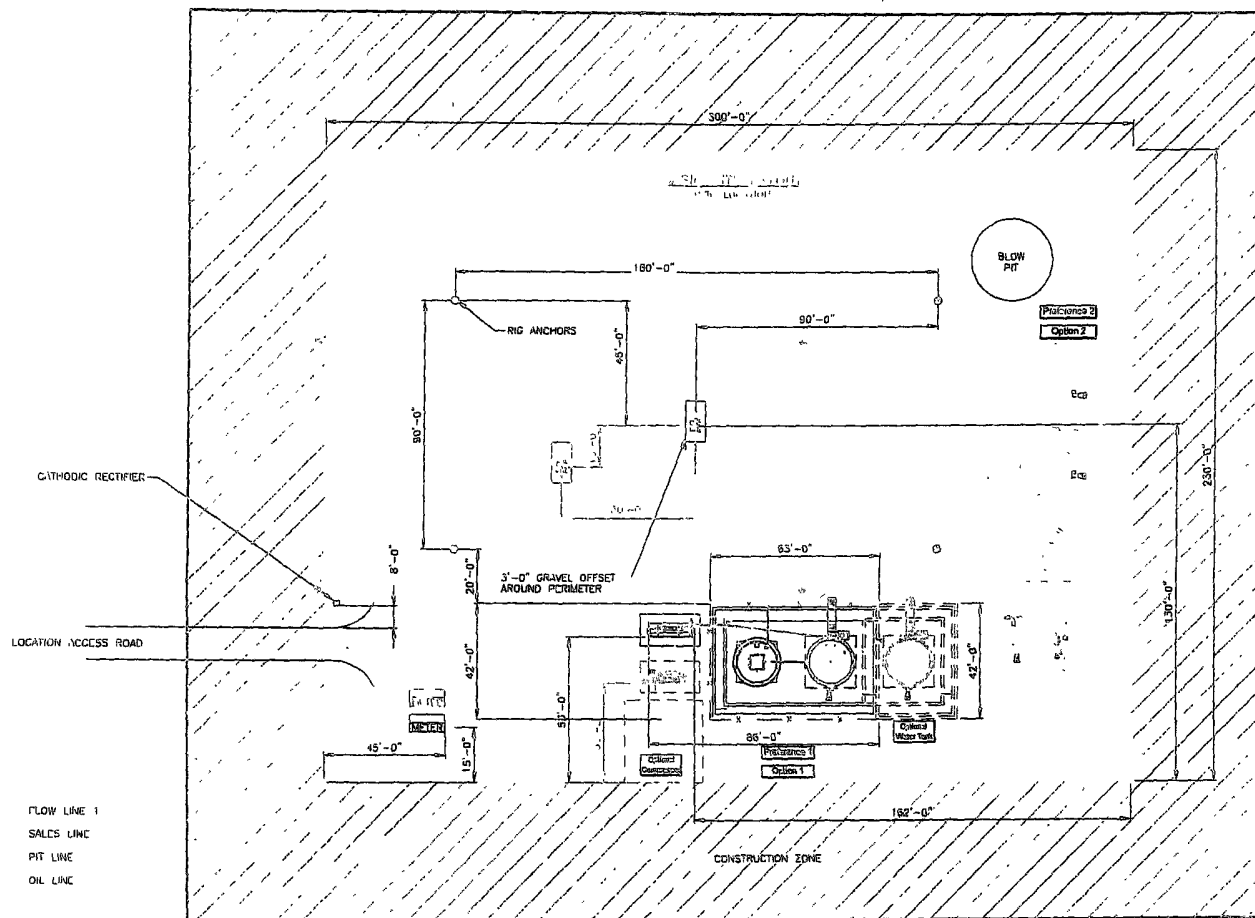
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
215.0	215.0	9 5/8"	9.625	12.250
4,176.9	3,942.0	7"	7.000	8.750
8,413.8	8,178.9	4 1/2"	4.500	6.250

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 27-4 #42F
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6875.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 27-4 #42F	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 27-4 #42F		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
3,344.8	3,136.0	Ojo Alamo		0.00		
3,553.9	3,330.0	Kirtland		0.00		
3,773.9	3,542.0	Fruitland		0.00		
3,931.2	3,697.0	Pictured Cliffs		0.00		
4,090.9	3,856.0	Lewis		0.00		
4,446.9	4,212.0	Huerfano Bentonite		0.00		
4,919.9	4,685.0	Chacra		0.00		
5,546.9	5,312.0	Upper Cliffhouse		0.00		
5,666.9	5,432.0	Mass. Cliffhouse		0.00		
5,794.9	5,560.0	Menefee		0.00		
6,120.9	5,886.0	Pt. Lookout		0.00		
6,636.9	6,402.0	Mancos Shale		0.00		
7,253.9	7,019.0	Gallup		0.00		
8,060.9	7,826.0	Greenhorn		0.00		
8,119.9	7,885.0	Graneros		0.00		
8,151.9	7,917.0	Two Wells		0.00		
8,274.9	8,040.0	Upper Cubero		0.00		
8,317.9	8,083.0	Lower Cubero		0.00		
8,381.9	8,147.0	TD		0.00		
8,381.9	8,147.0	Encinal		0.00		



SEE SHEET 2 & 3 FOR HYDRA DETAILS
ALL UNDERGROUND PIPE IS TO BE GRADE A 100% OF 5'-0" TOP

SHEET 1 OF 3

										ENGINEERING REVIEW		REFERENCE DRAWINGS		CONOCO PHILLIPS		COROCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
										DESCRIPTION	REVIEWED	DATE	NO	DESCRIPTION				
										PROCESS								
										MECHANICAL								
										PIPING								
										ELECTRICAL								
										I & C								
										CIVIL/STRUCTURAL								

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 27-4 UNIT #42F

280' FNL, 2266' FEL

**SECTION 8, T27N, R04W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO**

NAD 83 LAT.: 36.594172° N LONG.: 107.273033° W

ELEV. 6860 NAVD88

NEW ACCESS ROAD 18'

**DRIVING DIRECTIONS TO BROG SAN JUAN 27-4 UNIT #42F, FROM BLOOMFIELD N.M. AND
INTERSECTION HWY 550 AND HWY 64:**

- TRAVEL EAST ON HWY. 64 FOR 36.4 MILES, TO MILE POST 101.1
- TURN RIGHT BY GOBERNADOR SCHOOL AND TRAVEL SOUTH ON CR 366
- AT 1.0 MILES, Y IN ROAD, STAY RIGHT ON AMERICAN GENERAL ROAD,
- AT 1.3 MILES, CROSS CATTLE GUARD
- AT 3.4 MILES, CROSS CATTLE GUARD
- AT 4.4 MILES, ROAD INTERSECTION, STAY STRAIGHT AHEAD
- AT 5.4 MILES, CROSS WASH AND CONTINUE PAST TWIN PEAKS SIGN
- AT 7.1 MILES, CROSS CATTLE GUARD
- AT 8.3 MILES, Y IN ROAD, STAY LEFT, PASS SPEED SIGN
- AT 9.5 MILES, Y IN ROAD, STAY LEFT
- AT 10.5 MILES, CROSS CATTLE GUARD
- AT 11.3 MILES, PASS SPEED SIGN
- AT 11.8 MILES, CROSS CATTLE GUARD
- AT 14.7 MILES, PASS "44 CROSSING WATER HOLE" CONTINUE ON FOREST ROAD 357.
- AT 15.2 MILES, CROSS UNDER POWER LINES
- AT 15.3 MILES, CROSS WASH
- AT 15.4 MILES, SHARP RIGHT OFF FR 357 AND ONTO 357V BEG UP HILL GRADE
- AT 15.55 MILES, RIGHT SIDE ROAD 357V, ENTER WELL PAD AT PAD 3, 15 FT. WEST OF LAYDOWN STAKE FOR SAN JUAN 27-4 UNIT #42F.