

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD JUN 13 '12
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED APR 13 2012 Farmington Field Office Bureau of Land Management	5. Lease Number SF-077842 Unit Reporting Number NMB-000015 (MV)
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name San Juan 29-7 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name 9. Well Number 56C
4. Location of Well Surface: Unit P (SESE), 1199' FSL & 1122' FEL BHL : Unit J (NWSE), 1710' FSL & 1900' FEL Surface: Latitude: 36.72178° N (NAD83) Longitude: 107.55312° W Surface: Latitude: 36.72320° N (NAD83) Longitude: 107.55577° W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 15, T29N, R7W API# 30-039-31116
14. Distance in Miles from Nearest Town 18 miles from Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1122'		
16. Acres in Lease 520.000	17. Acres Assigned to Well 320.00 Acres - E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 52' from SJ 29-7 Unit 56A/MV		
19. Proposed Depth 7500'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6243' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	4/13/12 Date	

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 6/4/12

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.

BLM'S Approval of this application does not constitute a guarantee, warranty, or endorsement of the quality or value of the product or of the claims made for it, nor does it constitute an assumption of liability for damages of any kind.
ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS
Bond Numbers NMB-000015 and NMB-000089
NMOCD
JUN 22 2012

Hold C104
for Directional Survey
and "As Drilled" plat

This action is subject to technical and procedural review pursuant to 43 CFR 3162.3 and appeal pursuant to 43 CFR 3165. DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised July 10, 2010

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, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

APR 13 2012

Submit one copy to appropriate
District Office

Farmington Field Office
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-31116	Pool Code 72319 / 71599	Pool Name BLANCO MESAVERDE / BASIN DAKOTA
Property Code 37444 7465	Property Name SAN JUAN 29-7 UNIT	Well Number 56C
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	Elevation 6243'

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
P	15	29N	7W		1199'	SOUTH	1122'	EAST	RIO ARRIBA

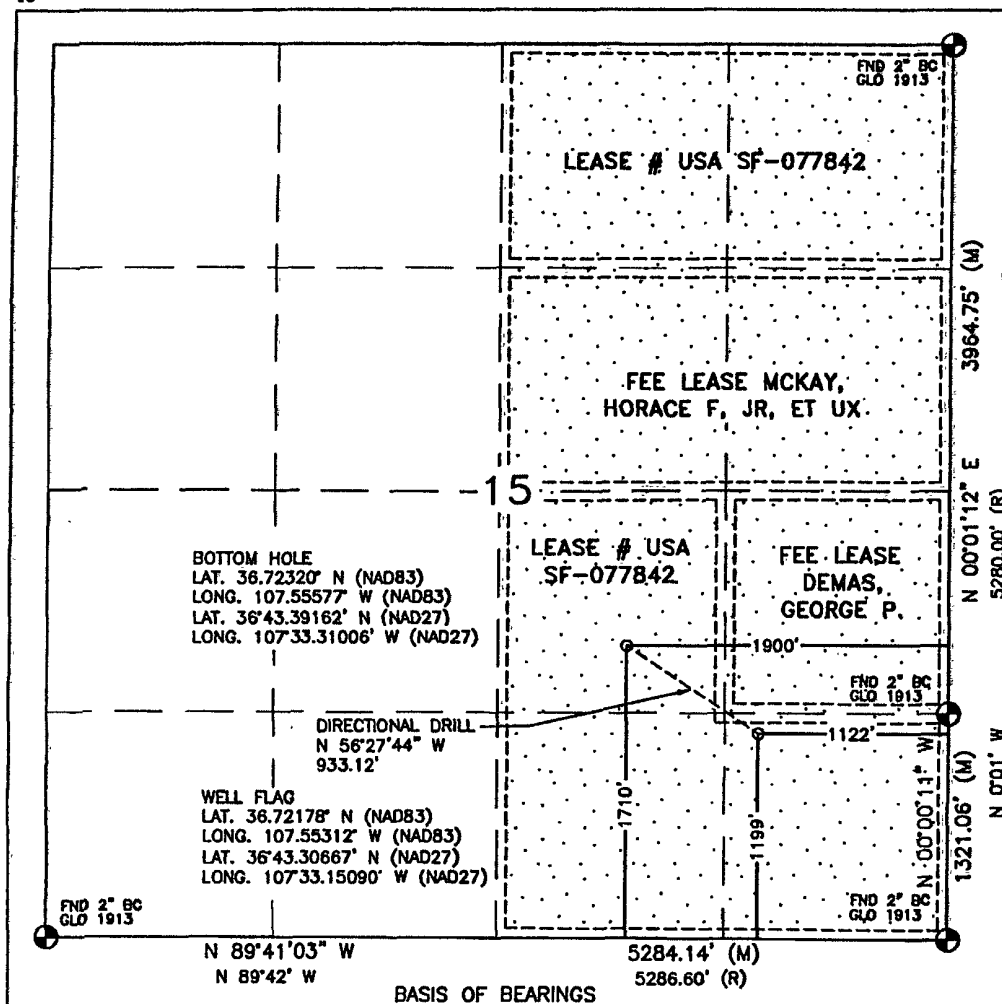
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	15	29N	7W		1710'	SOUTH	1900'	EAST	RIO ARRIBA

Dedicated Acres 320.00 ACRES - E/2	Joint or Infill	Consolidation Code	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

18



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, voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Dollie L. Busse 4/6/11
Signature Date

Dollie L. Busse

Printed Name

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.

MARCH 7, 2011

Date of Survey

Signature and Seal of Professional Surveyor:

David B. Russell
DAVID B. RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
NEW MEXICO
10201
DAVID-RUSSELL
Certificate Number 10201

LATITUDE: 36.72178° N
LONGITUDE: 107.55312° W
DATUM: NAD 83

E.R.A.

LATITUDE: 36°43'33.1" N
LONGITUDE: 107°33'31.7" W
DATUM: NAD 83

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 29-7 UNIT #56C

1199' FSL & 1122' FEL

LOCATED IN THE SE/4 SE/4 OF SECTION 15,

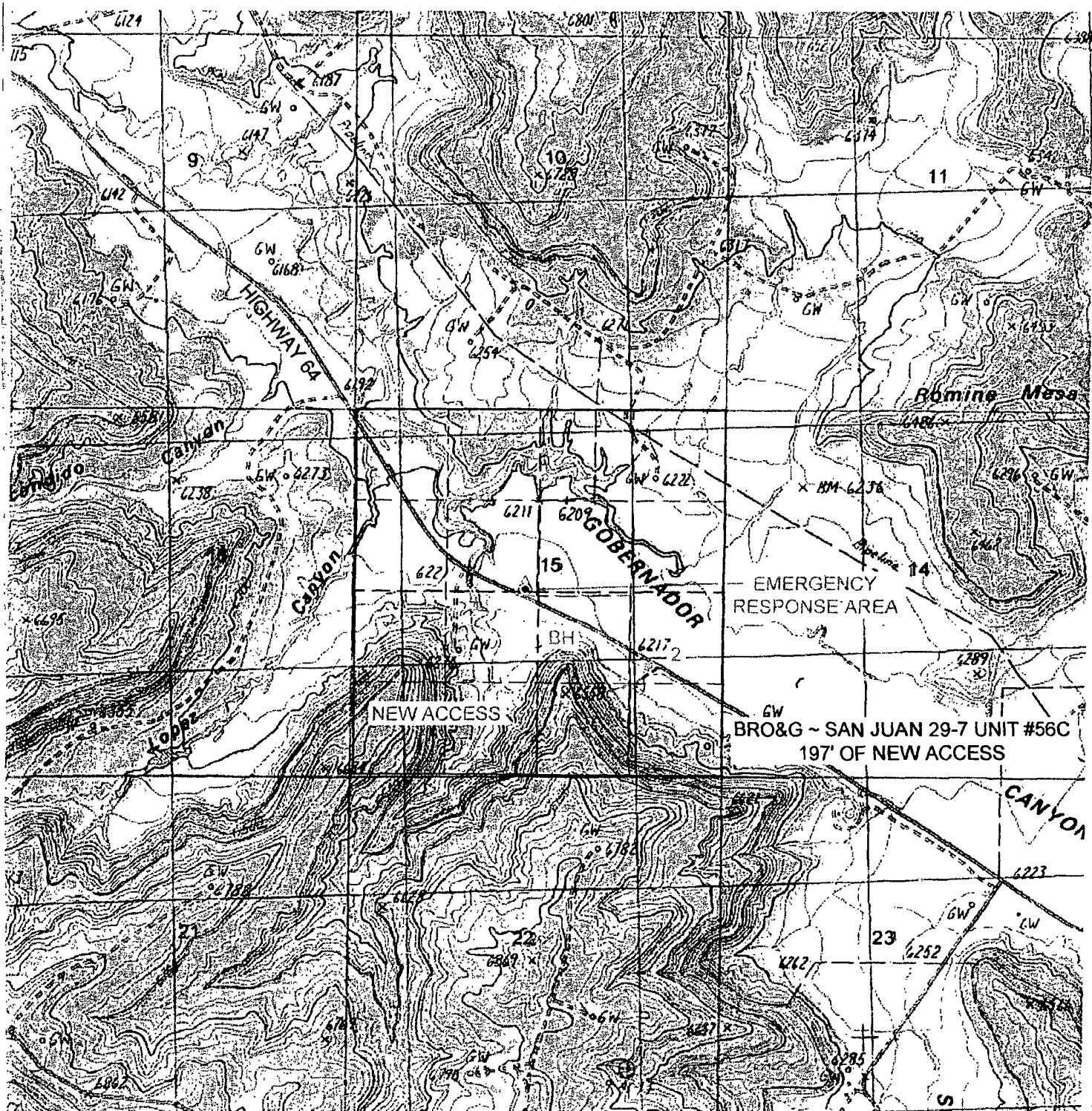
T29N, R7W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6243', NAVD 88

197' OF NEW ACCESS ACROSS

FEE AND BLM LANDS



U.S.G.S. QUAD: DELGADITA MESA
SCALE: 1" = 2000' (1:24,000)
OB No.: COPC174
DATE: 03/24/11

NEW OR RECONSTRUCTED ROADS MUST MEET
SMA DESIGN STANDARDS
INSTALL CULVERTS AS NEEDED



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 56C

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8026				AFE \$:	
Field Name: SAN JUAN 29-7 UNIT		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		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: 36.721774		Longitude: -107.552513		X:	Y:	Section: 15	Range: 007W
Footage X: 1122 FEL		Footage Y: 1199 FSL		Elevation: 6243 (FT)	Township: 029N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.723194		Longitude: -107.555163		X:	Y:	Section: 15	Range: 007W
Footage X: 1900 FEL		Footage Y: 1710 FSL		Elevation: (FT)	Township: 029N		
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6258 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6028		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	744	5514		☐			
OJO ALAMO	2150	4108		☐			
KIRTLAND	2272	3986		☐			
FRUITLAND	2645	3613		☐			Possible Gas
PICTURED CLIFFS	3072	3186		☐			
LEWIS	3228	3030		☐			
HUERFANITO BENTONITE	3375	2883		☐			
Intermediate Casing	3807	2451		☐	133		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 856 cuft. Circulate cement to surface.
CHACRA	4035	2223		☐			Est. Top Perf - 4037 (2221)
UPPER CLIFF HOUSE	4664	1594		☐			Gas; Cliffhouse is dry
MASSIVE CLIFF HOUSE	4804	1454		☐	572		Gas
MENEFEE	4919	1339		☐			
POINT LOOKOUT	5248	1010		☐			
MANCOS	5652	606		☐			
UPPER GALLUP	6488	-230		☐			
GREENHORN	7205	-947		☐			
GRANEROS	7262	-1004		☐			
TWO WELLS	7308	-1050		☐	3085		Gas
PAGUATE	7392	-1134		☐			
UPPER CUBERO	7415	-1157		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 56C

DEVELOPMENT

LOWER CUBERO	7441	-1183	☐	Est. Btm Perf - 7485 (- 1227) based on offset wells
ENCINAL	7500	-1242	☐	TD - T/ENCN
Total Depth	7500	-1242	☐	212 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 415 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SAN JUAN 29-7 UNIT-65-A	29N 7W 22 SE NW SE
Production	SAN JUAN 29-7 UNIT-67A	29N 7W 23 SW NW
Production	SAN JUAN 29-7 UNIT-66A	29N 7W 22 SE SE NW

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Cased Hole GR / CBL	
Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.	

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

ConocoPhillips or its affiliates

Planning Report



Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #56C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6258.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6258 0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #56C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	San Juan 29 Wells
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Site Position:		Northing:	2,082,103.01 ft	Latitude:	36° 43' 18.400 N
From:	Lat/Long	Easting:	582,301.12 ft	Longitude:	107° 33' 9.054 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0 17 °

Well:	SJ 29-7 #56C					
Well Position	+N/-S	0.0 ft	Northing:	2,082,103.03 ft	Latitude:	36° 43' 18.400 N
	+E/-W	0.0 ft	Easting:	582,301.12 ft	Longitude:	107° 33' 9.054 W
Position Uncertainty		15.0 ft	Wellhead Elevation:	ft	Ground Level:	6,243.0 ft

Wellbore:	Wellbore #1
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	4/5/2012	9.71	63.46	50,638

Design:	Plan #1
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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	303.54

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,554.9	21.10	303.54	1,531.2	106.1	-160.1	2.00	2.00	0.00	303.54	
3,257.3	21.10	303.54	3,119.5	444.7	-670.8	0.00	0.00	0.00	0.00	
3,960.6	0.00	0.00	3,807.0	515.5	-777.5	3.00	-3.00	0.00	180.00	SJ 29-7 #56C ICP
7,653.6	0.00	0.00	7,500.0	515.5	-777.5	0.00	0.00	0.00	0.00	SJ 29-7 #56C PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #56C
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6258.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6258.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #56C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	N/S (ft)	E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
SURFACE CASING									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	2.00	303.54	600.0	1.0	-1.5	1.7	2.00	2.00	0.00
700.0	4.00	303.54	699.8	3.9	-5.8	7.0	2.00	2.00	0.00
744.3	4.89	303.54	744.0	5.8	-8.7	10.4	2.00	2.00	0.00
NACIMIENTO									
800.0	6.00	303.54	799.5	8.7	-13.1	15.7	2.00	2.00	0.00
900.0	8.00	303.54	898.7	15.4	-23.2	27.9	2.00	2.00	0.00
1,000.0	10.00	303.54	997.5	24.0	-36.3	43.5	2.00	2.00	0.00
1,100.0	12.00	303.54	1,095.6	34.6	-52.2	62.6	2.00	2.00	0.00
1,200.0	14.00	303.54	1,193.1	47.0	-70.9	85.1	2.00	2.00	0.00
1,300.0	16.00	303.54	1,289.6	61.3	-92.5	111.0	2.00	2.00	0.00
1,400.0	18.00	303.54	1,385.3	77.5	-116.9	140.2	2.00	2.00	0.00
1,500.0	20.00	303.54	1,479.8	95.5	-144.0	172.8	2.00	2.00	0.00
1,554.9	21.10	303.54	1,531.2	106.1	-160.1	192.0	2.00	2.00	0.00
1,600.0	21.10	303.54	1,573.3	115.1	-173.6	208.3	0.00	0.00	0.00
1,700.0	21.10	303.54	1,666.6	135.0	-203.6	244.3	0.00	0.00	0.00
1,800.0	21.10	303.54	1,759.9	154.9	-233.6	280.3	0.00	0.00	0.00
1,900.0	21.10	303.54	1,853.2	174.8	-263.6	316.3	0.00	0.00	0.00
2,000.0	21.10	303.54	1,946.5	194.6	-293.6	352.3	0.00	0.00	0.00
2,100.0	21.10	303.54	2,039.8	214.5	-323.6	388.3	0.00	0.00	0.00
2,200.0	21.10	303.54	2,133.1	234.4	-353.6	424.2	0.00	0.00	0.00
2,218.1	21.10	303.54	2,150.0	238.0	-359.0	430.8	0.00	0.00	0.00
OJO ALAMO									
2,300.0	21.10	303.54	2,226.4	254.3	-383.6	460.2	0.00	0.00	0.00
2,348.9	21.10	303.54	2,272.0	264.0	-398.3	477.8	0.00	0.00	0.00
KIRTLAND									
2,400.0	21.10	303.54	2,319.7	274.2	-413.6	496.2	0.00	0.00	0.00
2,500.0	21.10	303.54	2,413.0	294.1	-443.6	532.2	0.00	0.00	0.00
2,600.0	21.10	303.54	2,506.3	314.0	-473.6	568.2	0.00	0.00	0.00
2,700.0	21.10	303.54	2,599.6	333.9	-503.6	604.2	0.00	0.00	0.00
2,748.7	21.10	303.54	2,645.0	343.6	-518.2	621.8	0.00	0.00	0.00
FRUITLAND									
2,800.0	21.10	303.54	2,692.9	353.8	-533.6	640.2	0.00	0.00	0.00
2,900.0	21.10	303.54	2,786.2	373.6	-563.6	676.2	0.00	0.00	0.00
3,000.0	21.10	303.54	2,879.5	393.5	-593.6	712.2	0.00	0.00	0.00
3,100.0	21.10	303.54	2,972.8	413.4	-623.6	748.2	0.00	0.00	0.00
3,200.0	21.10	303.54	3,066.0	433.3	-653.6	784.2	0.00	0.00	0.00
3,206.4	21.10	303.54	3,072.0	434.6	-655.5	786.5	0.00	0.00	0.00
PICTURED CLIFFS									
3,257.3	21.10	303.54	3,119.5	444.7	-670.8	804.8	0.00	0.00	0.00
3,300.0	19.82	303.54	3,159.5	453.0	-683.2	819.8	3.00	-3.00	0.00
3,372.3	17.65	303.54	3,228.0	465.8	-702.6	843.0	3.00	-3.00	0.00
LEWIS									
3,400.0	16.82	303.54	3,254.4	470.3	-709.4	851.2	3.00	-3.00	0.00
3,500.0	13.82	303.54	3,350.9	484.9	-731.5	877.6	3.00	-3.00	0.00
3,524.8	13.07	303.54	3,375.0	488.1	-736.3	883.4	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #56C
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6258.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6258.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #56C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
HUERFANITO BENTONITE										
3,600.0	10.82	303.54	3,448.6	496.7	-749.2	898.9	3.00	-3.00	0.00	
3,700.0	7.82	303.54	3,547.2	505.7	-762.7	915.1	3.00	-3.00	0.00	
3,800.0	4.82	303.54	3,646.6	511.7	-771.9	926.1	3.00	-3.00	0.00	
3,900.0	1.82	303.54	3,746.4	514.9	-776.7	931.9	3.00	-3.00	0.00	
3,960.6	0.00	0.00	3,807.0	515.5	-777.5	932.9	3.00	-3.00	0.00	
INTERMEDIATE CASING										
4,000.0	0.00	0.00	3,846.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,100.0	0.00	0.00	3,946.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,188.6	0.00	0.00	4,035.0	515.5	-777.5	932.9	0.00	0.00	0.00	
CHACRA										
4,200.0	0.00	0.00	4,046.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,146.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,246.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,346.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,446.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,546.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,646.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,817.6	0.00	0.00	4,664.0	515.5	-777.5	932.9	0.00	0.00	0.00	
UPPER CLIFF HOUSE										
4,900.0	0.00	0.00	4,746.4	515.5	-777.5	932.9	0.00	0.00	0.00	
4,957.6	0.00	0.00	4,804.0	515.5	-777.5	932.9	0.00	0.00	0.00	
MASSIVE CLIFF HOUSE										
5,000.0	0.00	0.00	4,846.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,072.6	0.00	0.00	4,919.0	515.5	-777.5	932.9	0.00	0.00	0.00	
MENEFEE										
5,100.0	0.00	0.00	4,946.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,046.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,146.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,246.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,401.6	0.00	0.00	5,248.0	515.5	-777.5	932.9	0.00	0.00	0.00	
POINT LOOKOUT										
5,500.0	0.00	0.00	5,346.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,446.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,546.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,646.4	515.5	-777.5	932.9	0.00	0.00	0.00	
5,805.6	0.00	0.00	5,652.0	515.5	-777.5	932.9	0.00	0.00	0.00	
MANCOS										
5,900.0	0.00	0.00	5,746.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,846.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,946.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,046.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,146.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,246.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,346.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,446.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,641.6	0.00	0.00	6,488.0	515.5	-777.5	932.9	0.00	0.00	0.00	
UPPER GALLUP										
6,700.0	0.00	0.00	6,546.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,646.4	515.5	-777.5	932.9	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,746.4	515.5	-777.5	932.9	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,846.4	515.5	-777.5	932.9	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,946.4	515.5	-777.5	932.9	0.00	0.00	0.00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #56C
Company:	ConocoPhillips SJBU	TVD Reference:	WELL @ 6258.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6258.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #56C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,200.0	0.00	0.00	7,046.4	515.5	-777.5	932.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,146.4	515.5	-777.5	932.9	0.00	0.00	0.00
7,358.6	0.00	0.00	7,205.0	515.5	-777.5	932.9	0.00	0.00	0.00
GREENHORN									
7,400.0	0.00	0.00	7,246.4	515.5	-777.5	932.9	0.00	0.00	0.00
7,415.6	0.00	0.00	7,262.0	515.5	-777.5	932.9	0.00	0.00	0.00
GRANEROS									
7,461.6	0.00	0.00	7,308.0	515.5	-777.5	932.9	0.00	0.00	0.00
TWO WELLS									
7,500.0	0.00	0.00	7,346.4	515.5	-777.5	932.9	0.00	0.00	0.00
7,545.6	0.00	0.00	7,392.0	515.5	-777.5	932.9	0.00	0.00	0.00
PAGUATE									
7,568.6	0.00	0.00	7,415.0	515.5	-777.5	932.9	0.00	0.00	0.00
UPPER CUBERO									
7,594.6	0.00	0.00	7,441.0	515.5	-777.5	932.9	0.00	0.00	0.00
LOWER CUBERO									
7,600.0	0.00	0.00	7,446.4	515.5	-777.5	932.9	0.00	0.00	0.00
7,653.6	0.00	0.00	7,500.0	515.5	-777.5	932.9	0.00	0.00	0.00

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude Longitude
SJ 29-7 #56C PCP	- plan hits target center	0.00	0.00	7,500.0	515.5	-777.5	2,082,616.17	581,522.16	36° 43' 23.497 N 107° 33' 18.604 W
- Point									
SJ 29-7 #56C ICP	- plan hits target center	0.00	0.00	3,807.0	515.5	-777.5	2,082,616.17	581,522.16	36° 43' 23.497 N 107° 33' 18.604 W
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
3,960.6	3,807.0	INTERMEDIATE CASING	7	8-3/4	
320.0	320.0	SURFACE CASING	9-5/8	12-1/4	
7,653.6	7,500.0	PRODUCTION CASING	4-1/2	6-1/4	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-7 #56C
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6258 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6258 0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #56C	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,415.6	7,262.0	GRANEROS		0.00		
7,358.6	7,205.0	GREENHORN		0.00		
7,568.6	7,415.0	UPPER CUBERO		0.00		
3,372.3	3,228.0	LEWIS		0.00		
7,461.6	7,308.0	TWO WELLS		0.00		
6,641.6	6,488.0	UPPER GALLUP		0.00		
3,206.4	3,072.0	PICTURED CLIFFS		0.00		
744.3	744.0	NACIMIENTO		0.00		
5,072.6	4,919.0	MENEFEE		0.00		
3,524.8	3,375.0	HUERFANITO BENTONITE		0.00		
2,348.9	2,272.0	KIRTLAND		0.00		
	7,500.0	ENCINAL		0.00		
4,957.6	4,804.0	MASSIVE CLIFF HOUSE		0.00		
2,748.7	2,645.0	FRUITLAND		0.00		
5,401.6	5,248.0	POINT LOOKOUT		0.00		
5,805.6	5,652.0	MANCOS		0.00		
4,817.6	4,664.0	UPPER CLIFF HOUSE		0.00		
7,545.6	7,392.0	PAGUATE		0.00		
2,218.1	2,150.0	OJO ALAMO		0.00		
4,188.6	4,035.0	CHACRA		0.00		
7,594.6	7,441.0	LOWER CUBERO		0.00		

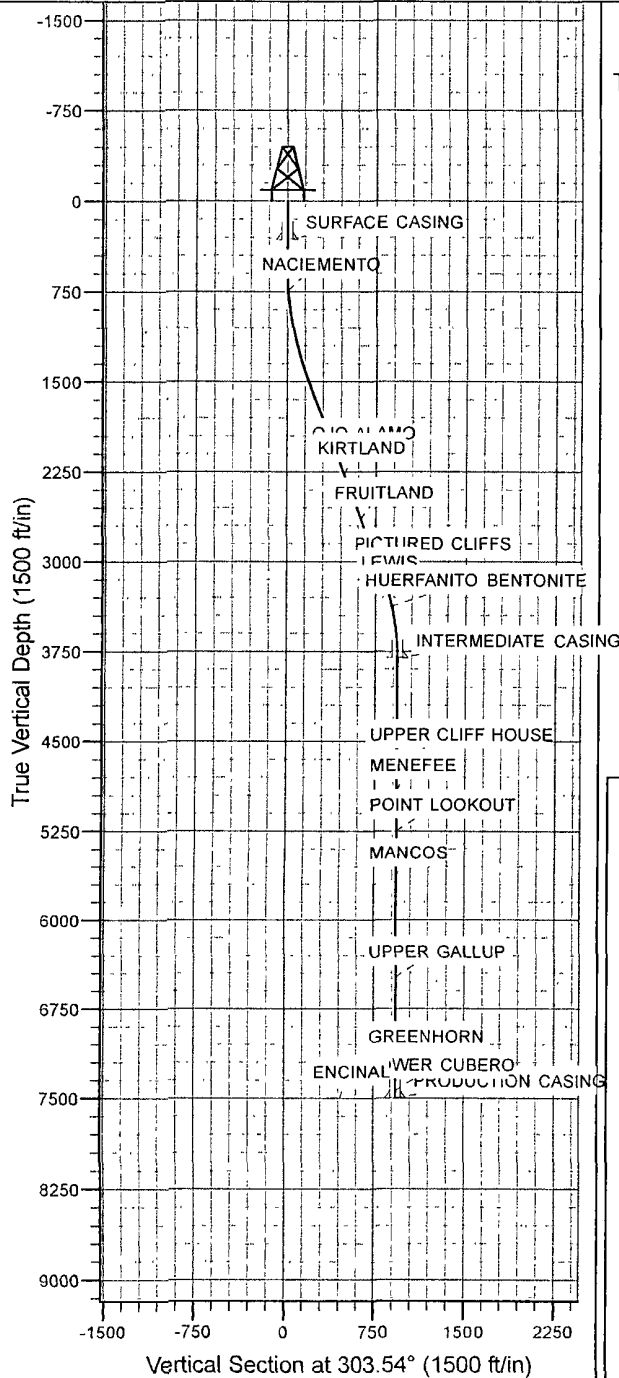
REFERENCE INFORMATION

WELL @ 6258.0ft (Original Well Elev)
Ground Elevation 6243.0
Reference Lat: 36° 43' 18.400 N
Reference Long: 107° 33' 9.054 W

Project: San Juan Basin - New Mexico West W
Site: San Juan 29 Wells
Well: SJ 29-7 #56C
Wellbore: Wellbore #1
Design: Plan #1

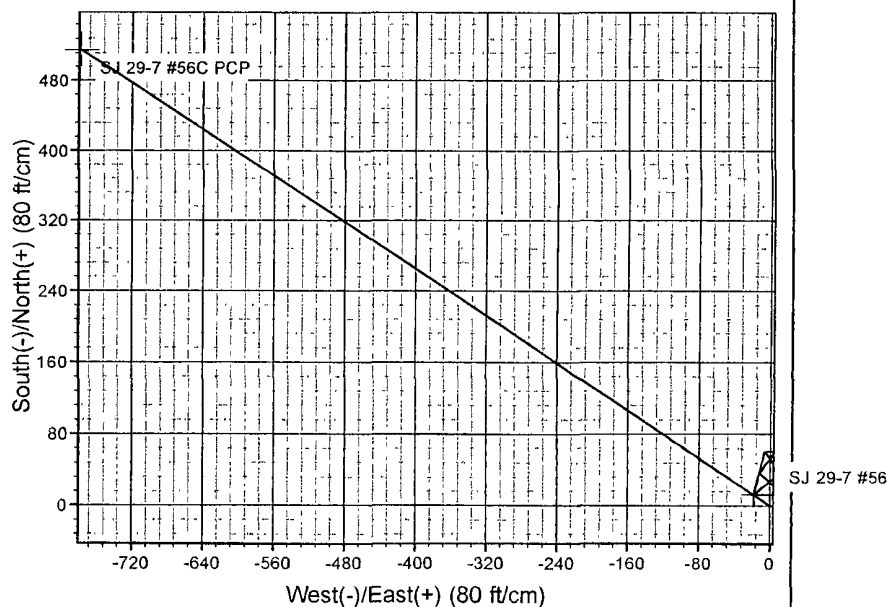
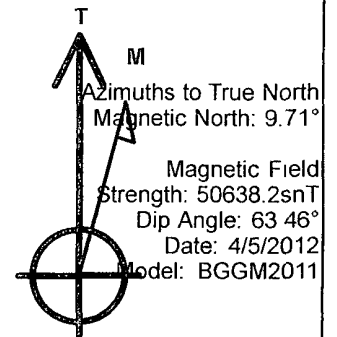
SECTION DETAILS

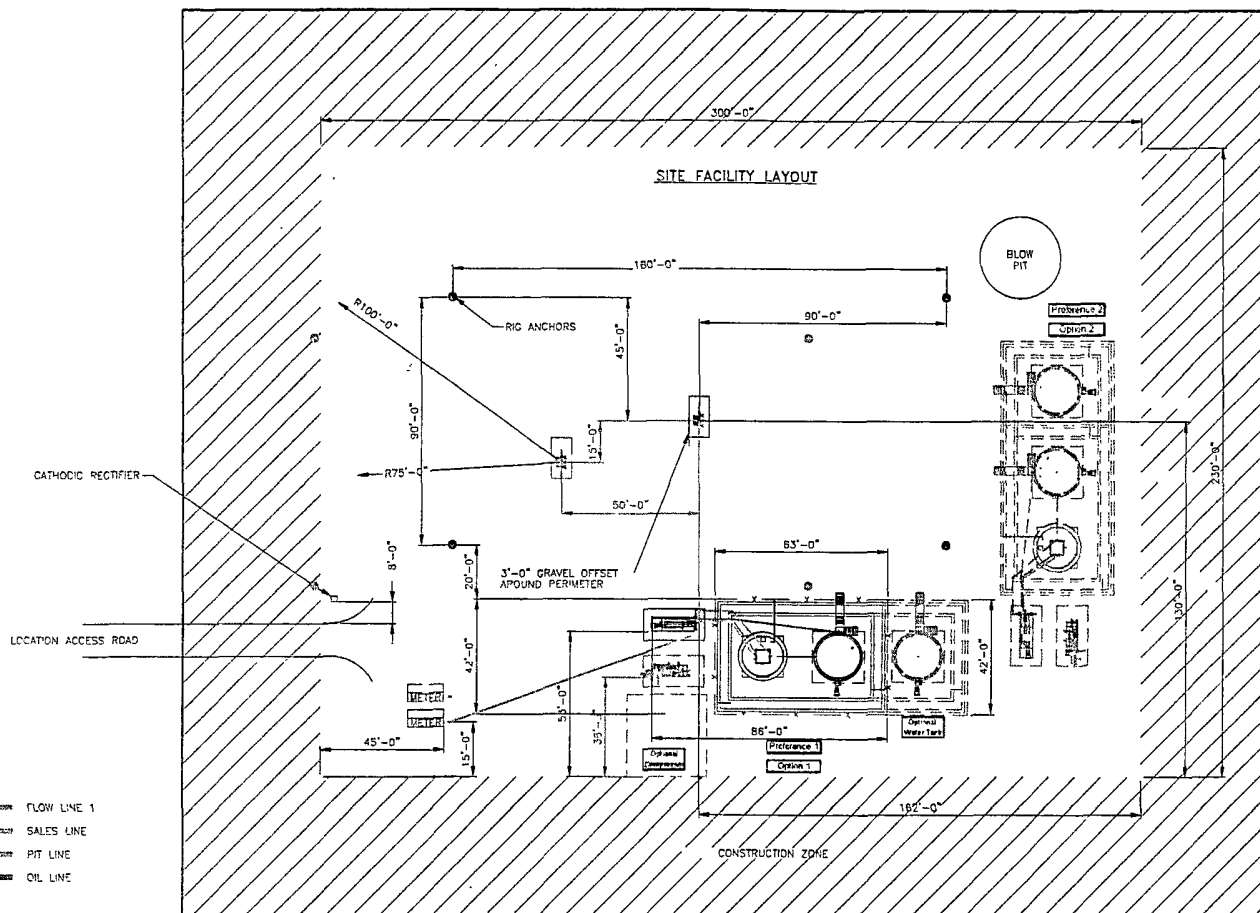
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	
3	1554.9	21.10	303.54	1531.2	106.1	-160.1	2.00	303.54	192.0	
4	3257.3	21.10	303.54	3119.5	444.7	-670.8	0.00	0.00	804.8	
5	3960.6	0.00	0.00	3807.0	515.5	-777.5	3.00	180.00	932.9	SJ 29-7 #56C ICP
6	7653.6	0.00	0.00	7500.0	515.5	-777.5	0.00	0.00	932.9	SJ 29-7 #56C PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
744.0	744.3	ENCINAL
2150.0	2218.1	NACIEMENTO
2272.0	2348.9	OJO ALAMO
2645.0	2748.7	KIRTLAND
3072.0	3206.4	FRUITLAND
3228.0	3372.3	PICTURED CLIFFS
3375.0	3524.8	LEWIS
4035.0	4188.6	HUERFANITO BENTON
4664.0	4817.6	CHACRA
4804.0	4957.6	UPPER CLIFF HOUSE
4919.0	5072.6	MASSIVE CLIFF HOUSE
5248.0	5401.6	MENEFEE
5652.0	5805.6	POINT LOOKOUT
6488.0	6641.6	MANCOS
7205.0	7358.6	UPPER GALLUP
7262.0	7415.6	GREENHORN
7308.0	7461.6	GRANEROS
7392.0	7545.6	TWO WELLS
7415.0	7568.6	PAGUATE
7441.0	7594.6	UPPER CUBERO
		LOWER CUBERO





SHEET 1 OF 5

SHEET 1 OF 5 11/14/2012 12:26:55 PM, gseeds

SEE SHEET 3 & 4 FOR PIPING DETAILS.
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

										ENGINEERING REVIEW			REFERENCE DRAWINGS		ConocoPhillips SAN JUAN BUSINESS UNIT			CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION				CLIENT NO.	CLIENT APPR.	APPR. DATE	
										PROCESS											
										MECHANICAL											
										PIPING											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL											
										PROJECT											
DESCRIPTION										DATE	BY	ENY'D	ENG	DSC	PRJ	DRAWN BY	SCALE: NONE	CREATION DATE 8/20/07	SHEET No 1 OF 5	4	

gseeds, 11/14/2012 12:26:55 PM, gseeds

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 29-7 UNIT #56C

1199' FSL & 1122' FEL

LOCATED IN THE SE/4 SE/4 OF SECTION 15,

T29N, R7W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HIGHWAY 64 FOR 18 MILES TO A LOCKED ACCESS GATE ON THE RIGHT.
- 2) TURN RIGHT, THROUGH THE GATE AND TRAVEL 400' TO THE EXISTING LOCATION.

WELL FLAG LOCATED AT LAT. 36.72178° N, LONG. 107.55312° W (NAD 83).

JOB No.: COPC174
DATE: 03/24/11



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637