

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

ROYAL JUN 9 '09
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work
DRILL

5. Lease Number of Land Management
SF-079059 Farmington Field Office
Unit Reporting Number

1b. Type of Well
GAS

6. If Indian, All. or Tribe

7. Unit Agreement Name

San Juan 28-6 Unit

2. Operator
BURLINGTON
RESOURCES Oil & Gas Company, LP

8. Farm or Lease Name

3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499
(505) 326-9700

9. Well Number
156P

4. Location of Well
Surf: Unit L (NWSW), 1403' FSL & 928' FWL
Bottomhole: Unit L (NWSW), 1430' FSL & 270' FWL
Surf: Latitude: 36.82890° N (NAD83)
Longitude: 107.49625° W
Bottomhole: Latitude: 36.62898° N (NAD83)
Longitude: 107.49849° W

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

11. Sec. Twn, Rge, Mer. (NMPM)
Sec. 29, T28N, R6W

API # 30-039-

30758

14. Distance in Miles from Nearest Town
34 miles/Blanco

12. County
Rio Arriba

13. State
NM

15. Distance from Proposed Location to Nearest Property or Lease Line
270'

17. Acres Assigned to Well
MV/DK 320.00 (W/2)

16. Acres in Lease
520.00

18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease
72' from San Juan 28-6 Unit 439 (FC)

20. Rotary or Cable Tools
Rotary

19. Proposed Depth
7713'

22. Approx. Date Work will Start

21. Elevations (DF, FT, GR, Etc.)
6499' GL

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

23. Proposed Casing and Cementing Program
See Operations Plan attached

24. Authorized by: Crystal Tafoya
Crystal Tafoya (Regulatory Technician)

Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached
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

JUN 10 2009

NMCCD

Drilling operations authorized are
subject to compliance with attached
"General Requirements".

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

Hold C104
for Directional Survey

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

RECEIVED

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

Bureau of Land Management ☐ AMENDED REPORT
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30758	*Pool Code 71599 / 72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 7462	*Property Name SAN JUAN 28-6 UNIT	*Well Number 156 P
*OGRD No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6499'

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
L	29	28N	6W		1403'	SOUTH	928'	WEST	RIO ARriba

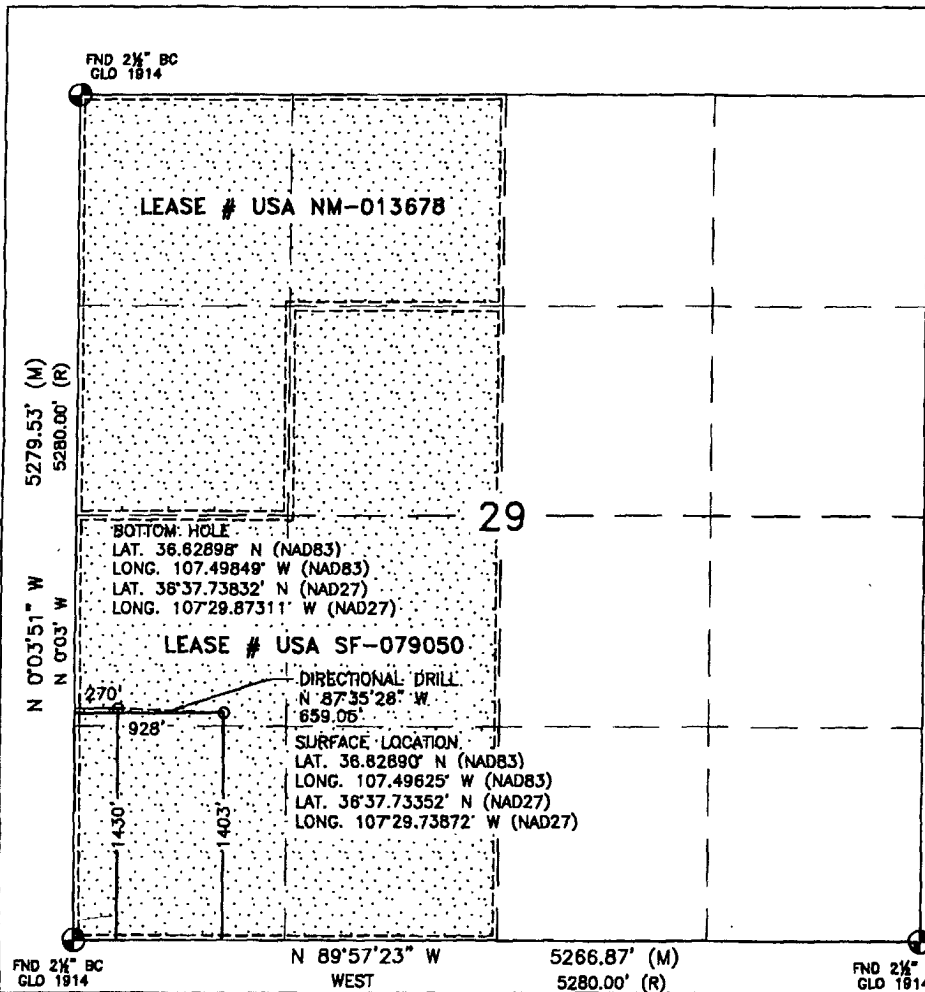
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	29	28N	6W		1430'	SOUTH	270'	WEST	RIO ARriba

¹² Dedicated Acres 320.00 Acres - (W/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

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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 or a compulsory pooling order heretofore entered by the division.

James Gardenhire 12/22/08
Signature Date

James Gardenhire
Printed Name

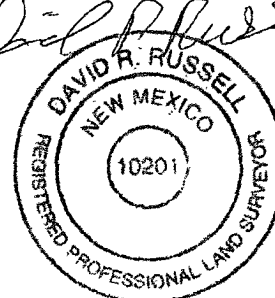
¹⁸ SURVEYOR CERTIFICATION

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.

OCTOBER 13, 2008

Date of Survey

Signature and Seal of Professional Surveyor



DAVID RUSSELL
Certificate Number 10201

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PDO8.52		
SAN JUAN 28 - 6 # 156 P		DATE 3/27/2008
WELL NAME	28-6 # 439	
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
L 29	28 N	6 W	36d37'43.9" N	107d29'49.3" W

COUNTY

RIO ARRIBA

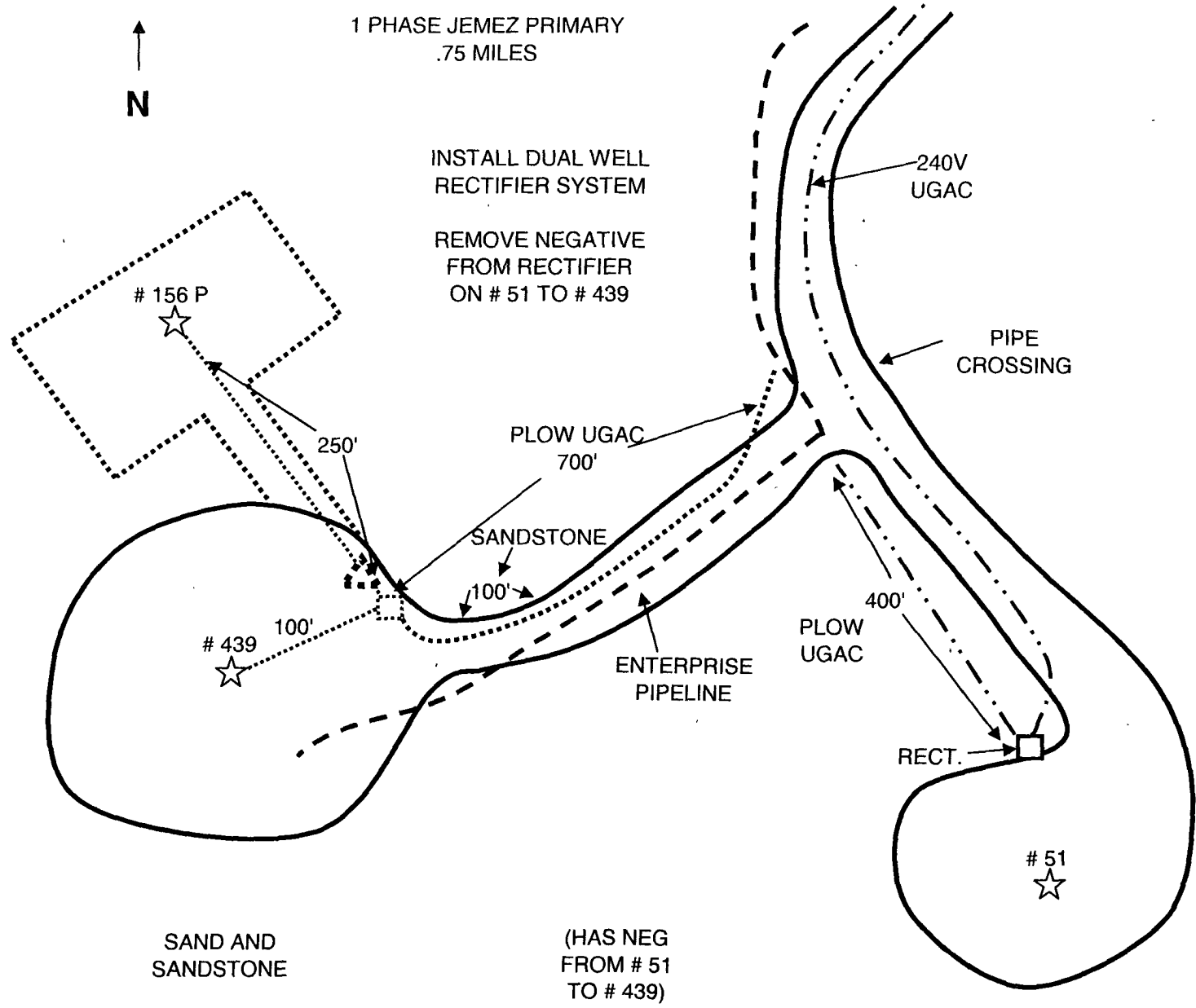
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

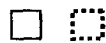
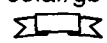
SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
40/16	X			
# 8	400'			
# 8	1100 FT			
			JEMEZ	
			.75 MILES	

COMMENTS

INSTALL UGAC TO LOC FROM EXISTING UGAC - UNSTALL DUAL RECTIFIER
SYSTEM - ABANDON NEG FROM # 51 TO # 439 - SOME SANDSTONE

WELL NAME
SAN JUAN 28 - 6 # 156 P



TANK	SEP OR DEHY	SOLAR	METER POLE	PUMP JACK	GND/BED EXISTING CABLE
					  
RECT	PIT	WELL	proposed solar/gb	PROPOSED CABLE	POWER LINE
				 FOREIGN PL 	 CONOCO PL 

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 156P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8050				AFE \$: 1,619,090.91	
Field Name: hBR_SAN JUAN 28-6 UNIT		Rig: H&P Rig 283		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						
R20076	DAKOTA(R20076)						
R20002	MESAVERDE(R20002)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.628892		Longitude: -107.495645		X:	Y:	Section: 29	Range: 006W
Footage X: 928 FWL		Footage Y: 1403 FSL		Elevation: 6499 (FT)		Township: 028N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.628972		Longitude: -107.497885		X:	Y:	Section: 29	Range: 006W
Footage X: 270 FWL		Footage Y: 1430 FSL		Elevation:		(FT) Township: 028N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6514 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6314	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2453	4061	☐				
KIRTLAND	2579	3935	☐				
FRUITLAND	3038	3476	☐			Possible Gas	
PICTURED CLIFFS	3254	3260	☐	990			
LEWIS	3335	3179	☐				
Intermediate Casing	3435	3079	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 798 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	3864	2650	☐				
CHACRA	4195	2319	☐				
UPPER CLIFF HOUSE	4781	1733	☐			Gas	
MASSIVE CLIFF HOUSE	4915	1599	☐	743		Gas	
MENEFEE	5064	1450	☐				
POINT LOOKOUT	5442	1072	☐				
MANCOS	5932	582	☐				
UPPER GALLUP	6651	-137	☐				
GREENHORN	7410	-896	☐				
GRANEROS	7476	-962	☐				
TWO WELLS	7510	-996	☐	2272		Gas	
UPPER CUBERO	7628	-1114	☐				
LOWER CUBERO	7664	-1150	☐				
ENCINAL	7712	-1198	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-6 UNIT 156P

DEVELOPMENT

Total Depth	7713	-1199	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 582 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	SAN JUAN 28-6 UNIT 156	

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 grhn to td. Perf 15' above td. Mud logger will call td.	

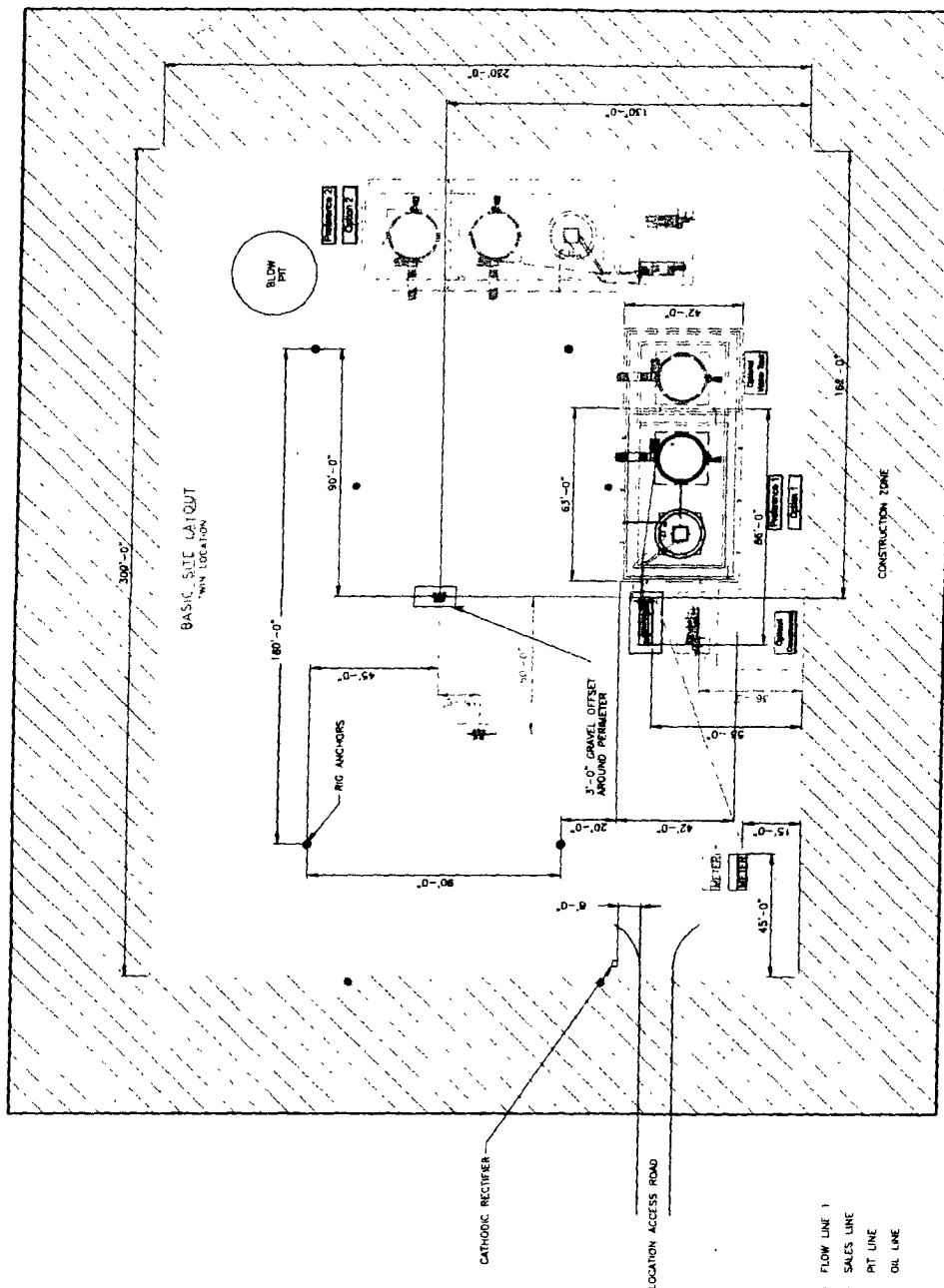
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 28-6 #156P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6514.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6514.0ft (Original Well Elev)
Site:	San Juan 28 Wells	North Reference:	True
Well:	SJ 28-6 #156P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,519.6	2,453.0	Ojo		0.00		
2,656.1	2,579.0	Kirtland		0.00		
3,141.7	3,038.0	Fruitland		0.00		
3,360.4	3,254.0	Pictured Cliffs		0.00		
3,441.6	3,335.0	Lewis		0.00		
3,970.6	3,864.0	Huerfano Bentonite		0.00		
4,301.6	4,195.0	Chacra		0.00		
4,887.6	4,781.0	Upper Cliffhouse		0.00		
5,021.6	4,915.0	Mass. Cliffhouse		0.00		
5,170.6	5,064.0	Menefee		0.00		
5,548.6	5,442.0	Point Lookout		0.00		
6,038.6	5,932.0	Mancos		0.00		
6,757.6	6,651.0	Upper Gallup		0.00		
7,516.6	7,410.0	Greenhorn		0.00		
7,582.6	7,476.0	Graneros		0.00		
7,616.6	7,510.0	Two Wells		0.00		
7,734.6	7,628.0	Upper Cubero		0.00		
7,770.6	7,664.0	Lower Cubero		0.00		
7,818.6	7,712.0	Encinal		0.00		



SEE SHEET 1 & 4 FOR PUMP DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 2'-0" TOP

SHEET : OF 5

				CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
SAN JUAN BUSINESS UNIT				CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- REV1			
REVISIONS				CLIENT NAME PROJECT NAME SCALE DATE			
DATE BY CHK'D DATE				DATE BY CHK'D DATE			
PROJECT NO. PROJECT NAME PROJECT LOCATION PROJECT DESCRIPTION				PROJECT NO. PROJECT NAME PROJECT LOCATION PROJECT DESCRIPTION			
ENGINEERING REVIEW DESIGNER CHECKER APPROVER DATE				ENGINEERING REVIEW DESIGNER CHECKER APPROVER DATE			
REFERENCE DRAWINGS DRAWING NO. DRAWING NAME DATE				REFERENCE DRAWINGS DRAWING NO. DRAWING NAME DATE			
SHEET NO. TOTAL SHEETS				SHEET NO. TOTAL SHEETS			

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 28-6 UNIT #156 P
1403' FSL & 928' FWL
LOCATED IN THE NW/4 SW/4 OF SECTION 29,
T28N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM INTERSECTION OF HWY 64 & CR 495 (FOURMILE RD.), GO SOUTHEASTERLY ON CR 495 FOR 2.0 MILES.
- 2) TURN RIGHT AND GO 1.3 MILES.
- 3) TURN RIGHT ONTO RIDGE ROAD, GO 3.0 MILES.
- 4) TURN LEFT AND GO 2.9 MILES.
- 5) TURN LEFT, GO 0.6 MILES.
- 6) TURN RIGHT, GO 0.5 MILES.
- 7) TURN RIGHT, GO 0.1 MILES TO EXISTING LOCATION. NEW WELL IS CO-LOCATED ON WEST SIDE OF EXISTING LOCATION.

WELL FLAG LOCATED AT LAT. 36.62890°N, LONG. 107.49625°W (NAD 83)

