

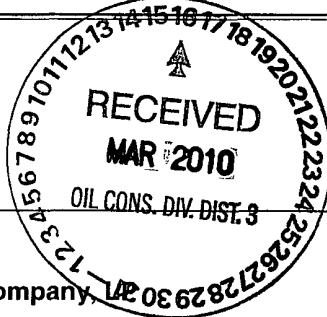
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

OCT 28 2009

1a. Type of Work DRILL	5. Lease Number SF-079383
1b. Type of Well GAS	6. If Indian, All. or Tribe NMNM-78420A-MV DK report to lease
2. Operator BURLINGTON RESOURCES Oil & Gas Company	7. Unit Agreement Name San Juan 30-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number 100B
4. Location of Well Surf: Unit E(SWNW), 1635' FNL & 1150' FWL Bottomhole: Unit F(SENW), 2380' FNL & 1920' FWL Surf: Latitude: 36.77185° N (NAD83) Longitude: 107.54535° W Bottomhole: Latitude: 36.76982° N (NAD83) Longitude: 107.54274° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) E Sec. 35, T30N, R7W API # 30-039-30835
14. Distance in Miles from Nearest Town 8 miles/Navajo City	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 225'	13. State NM
16. Acres in Lease 2,240.00	17. Acres Assigned to Well MV/DK 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 60' from San Juan 30-6 Unit 100A (MV)	20. Rotary or Cable Tools Rotary
19. Proposed Depth 8275'	22. Approx. Date Work will Start 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
21. Elevations (DF, FT, GR, Etc.) 6858' GL	23. Proposed Casing and Cementing Program See Operations Plan attached
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date: <u>10/28/2009</u>



A

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE ATEM DATE 3/10/2010

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.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Example Master Plan Type 3
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
Bond Numbers NMB-000015 and NMB-000089
NMCCD Hold C104 to
This action is subject to technical and procedural review pursuant to 43 CFR 3165.8 and appeal pursuant to 43 CFR 3165.4
MAR 17 2010

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

Form C-102
Revised October 12, 2005
Instructions on back
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
RECEIVED
OCT 28 2009

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION REPORT
Bureau of Land Management
Federal Land Office

¹ API Number 30-039-30835	² Pool Code 72319 / 71599	³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA
⁴ Property Code 7469	⁵ Property Name SAN JUAN 30-6 UNIT	
⁶ Well Number 100B	⁷ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	
⁸ GRID No 14538	⁹ Elevation 6858'	

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
E	35	30N	7W		1635	NORTH	1150	WEST	RIO ARRIBA

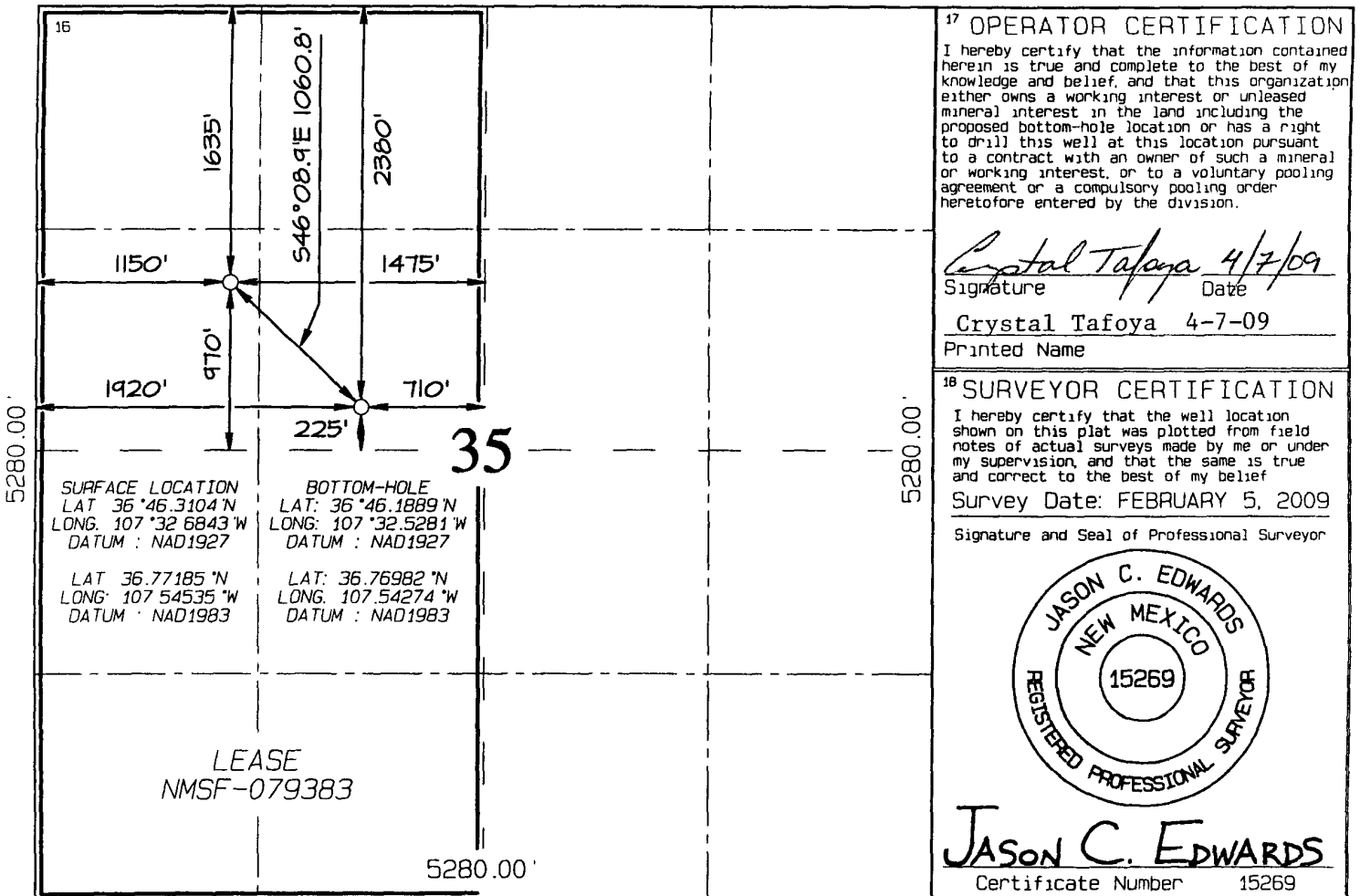
¹¹ Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	35	30N	7W		2380	NORTH	1920	WEST	RIO ARRIBA

¹² Dedicated Acres 320.0 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

5278.68'



PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-6 UNIT 100B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8519		AFE \$: 1,912,225.56	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		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		Direction:	
Latitude: 36.771844	Longitude: -107.544743	X:	Y:	Section: 35	Range: 007W
Footage X: 1150 FWL	Footage Y: 1635 FNL	Elevation: 6858	(FT)	Township: 030N	
Tolerance:					

Location: Bottom Hole		Datum: Code: NAD:27		Direction:	
Latitude: 36.769814	Longitude: -107.542133	X:	Y:	Section: 35	Range: 007W
Footage X: 1920 FWL	Footage Y: 2380 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6873 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	201	6672	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	1510	5363	<input type="checkbox"/>			
OJO ALAMO	2841	4032	<input type="checkbox"/>			
KIRTLAND	2937	3936	<input type="checkbox"/>			
FRUITLAND	3309	3564	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	3742	3131	<input type="checkbox"/>			
LEWIS	3866	3007	<input type="checkbox"/>			
Intermediate Casing	3966	2907	<input type="checkbox"/>			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 932 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4469	2404	<input type="checkbox"/>			
CHACRA	4771	2102	<input type="checkbox"/>			Est. Top Perf - 4772 (2100)
UPPER CLIFF HOUSE	5420	1453	<input type="checkbox"/>			Gas
MASSIVE CLIFF HOUSE	5535	1338	<input type="checkbox"/>	393		Gas
MENEFEE	5613	1260	<input type="checkbox"/>			
POINT LOOKOUT	5959	914	<input type="checkbox"/>			
YANCOS	6295	578	<input type="checkbox"/>			
JPPER GALLUP	7203	-330	<input type="checkbox"/>			
GREENHORN	7934	-1061	<input type="checkbox"/>			
GRANEROS	7989	-1116	<input type="checkbox"/>			
TWO WELLS	8063	-1190	<input type="checkbox"/>	3442		Gas
PAGUATE	8111	-1238	<input type="checkbox"/>			
JPPER CUBERO	8147	-1274	<input type="checkbox"/>			
LOWER CUBERO	8179	-1306	<input type="checkbox"/>			Est. Btm Perf - 8254 (-1382) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-6 UNIT 100B

DEVELOPMENT

ENCINAL	8245	-1372	<input type="checkbox"/>	TD - 30' below T/ENCN
Total Depth	8275	-1402	<input type="checkbox"/>	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 586 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 30-6 100-A	30N 7W 35 NE SW NW
Production	SJ 30-6 96B	30N 7W 26 SE SE NE
Production	SJ 30-6 414S	30N 7W 35 NE SW NW
Production	SJ 30-6 129	30N 7W 25 NW SE SE

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 GRHN to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-6 #100B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6873.0ft (Original Well Elev)
Project:	San Juan Basin- New Mexico Wells	MD Reference:	RKB @ 6873.0ft (Original Well Elev)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-6 #100B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
215.0	215.0	Surface Shoe	9-5/8	12-1/4	
4,142.9	3,966.0	Intermediate Shoe	7	8-3/4	
8,451.9	8,275.0	Production Shoe	4-1/2	6-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,073.7	2,937.0	Kirtland		0.00		
7,379.9	7,203.0	Gallup		0.00		
1,545.0	1,510.0	Nacimiento		0.00		
8,421.9	8,245.0	Encinal		0.00		
8,451.9	8,275.0	TD		0.00		
5,596.9	5,420.0	Upper Cliffhouse		0.00		
8,355.9	8,179.0	Lower Cubero		0.00		
8,287.9	8,111.0	Paguates		0.00		
4,947.9	4,771.0	Chacra		0.00		
4,645.9	4,469.0	Huerf Bent		0.00		
6,471.9	6,295.0	Mancos Shale		0.00		
2,970.9	2,841.0	Ojo Alamo		0.00		
4,042.8	3,866.0	Lewis		0.00		
6,135.9	5,959.0	Pt Lookout		0.00		
8,110.9	7,934.0	Greenhorn		0.00		
3,918.3	3,742.0	Pictured Cliffs		0.00		
3,472.2	3,309.0	Fruitland		0.00		
8,165.9	7,989.0	Graneros		0.00		
5,789.9	5,613.0	Menefee		0.00		
5,711.9	5,535.0	Massive Cliffhouse		0.00		
8,323.9	8,147.0	Upper Cubero		0.00		
8,239.9	8,063.0	Two Wells		0.00		

REFERENCE INFORMATION

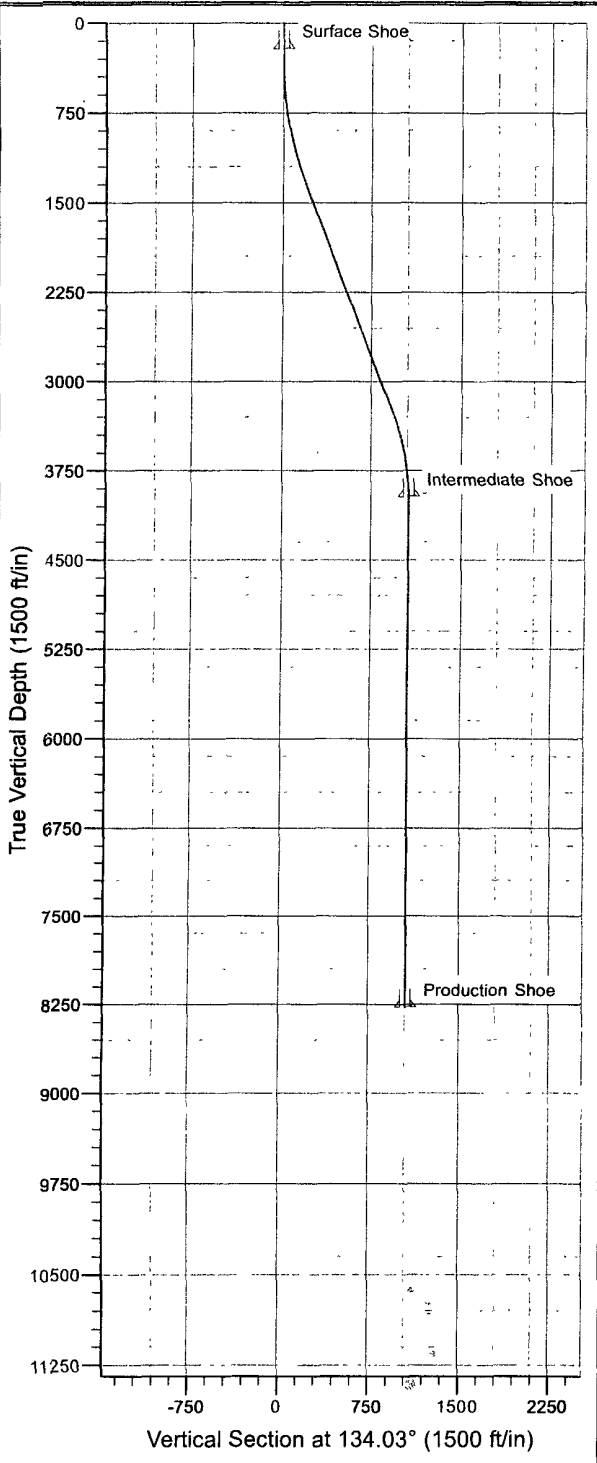
RKB @ 6873.0ft (Original Well Elev)
 Ground Elevation 6858.0
 Reference Lat: 36° 46' 18.624 N
 Reference Long: 107° 32' 41.058 W

Project: San Juan Basin - New Mexico Wells
 Site: San Juan 30 Wells
 Well: SJ 30-6 #100B
 Wellbore: Principal Wellbore
 Design: Plan #1



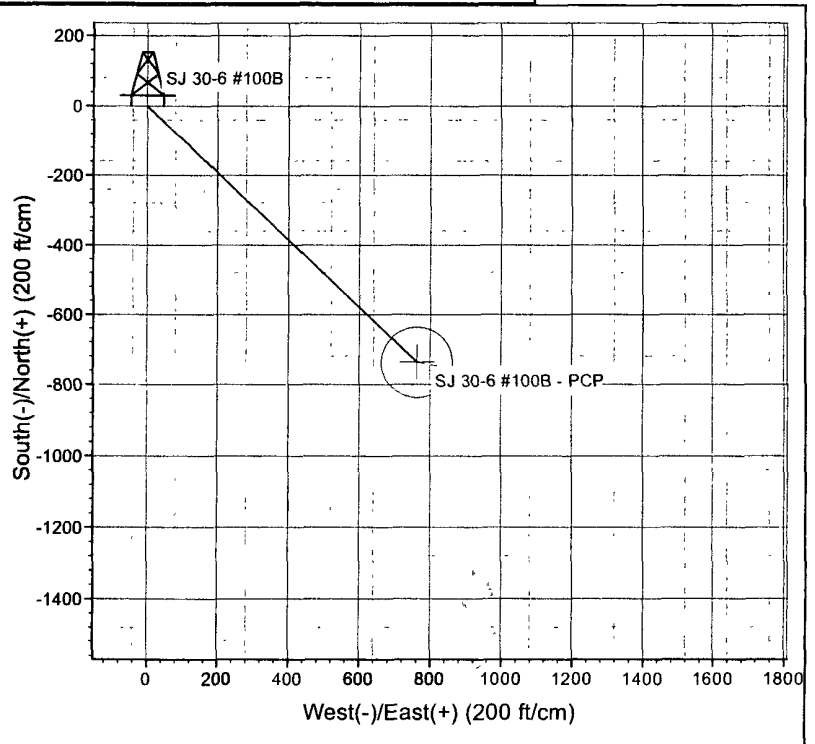
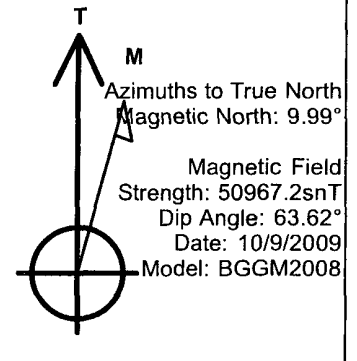
SECTION DETAILS

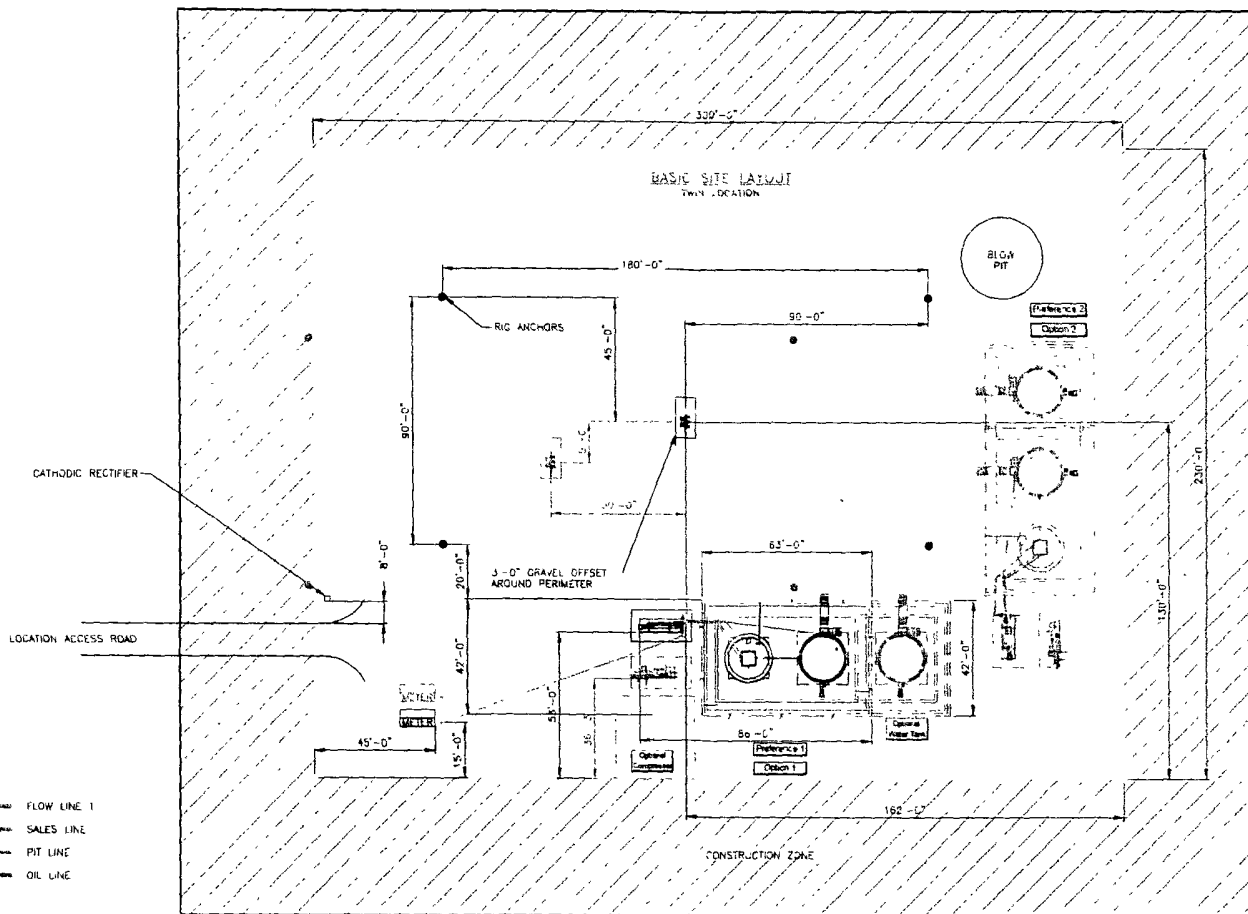
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1371.0	21.02	134.03	1347.6	-132.5	137.1	2.00	134.03	190.6	
4	3442.2	21.02	134.03	3280.9	-648.9	671.2	0.00	0.00	933.6	
5	4142.9	0.00	0.00	3966.0	-737.2	762.6	3.00	180.00	1060.7	SJ 30-6 #100B - ICP
6	8451.9	0.00	0.00	8275.0	-737.2	762.6	0.00	0.00	1060.7	SJ 30-6 #100B - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1510.0	1545.0	Nacimiento
2841.0	2970.9	Ojo Alamo
2937.0	3073.7	Kirtland
3309.0	3472.2	Fruitland
3742.0	3918.3	Pictured Cliffs
3866.0	4042.8	Lewis
4469.0	4645.9	Huerf. Bent.
4771.0	4947.9	Chacra
5420.0	5596.9	Upper Cliffhouse
5535.0	5711.9	Massive Cliffhouse
5613.0	5789.9	Menefee
5959.0	6135.9	Pt. Lookout
6295.0	6471.9	Mancos Shale
7203.0	7379.9	Gallup
7934.0	8110.9	Greenhorn
7989.0	8165.9	Graneros
8063.0	8239.9	Two Wells
8111.0	8287.9	Paguates
8147.0	8323.9	Upper Cubero
8179.0	8355.9	Lower Cubero
8245.0	8421.9	Encinal
8275.0	8451.9	TD





- FLOW LINE 1
- SALES LINE
- PIT LINE
- OIL LINE

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

SHEET 1 OF 2

										ENGINEERING REVIEW			REFERENCE DRAWINGS		ConocoPhillips		CONOCO-PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION			CLIENT NO.	CLIENT ADDR.	ISSUE DATE	
										PROJECT										
										MECHANICAL										
										PIPING										
										ELECTRICAL										
										I & C										
										CIVIL/STRUCTURAL										
										PROJECT										
										SAN JUAN BUSINESS UNIT					FORM BY	SCALE NONE	CONSTRUCTION DATE 8/20/05	SHEET NO.	1 OF 2	
															HP3PHASE-REV1					

filepath: S:\gs\RD\cph\Andrea\Regulator\Twin Location Site Layout.dwg, 06/28/2007 - 02:59pm

Directions from the Intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM to
Burlington Resources Oil & Gas Company San Juan 30-6 Unit #100B
1635' FNL & 1150' FWL, Section 35, T30N, R7W, N.M.P.M., Rio Arriba County, NM

Latitude : 36.77185°N Longitude : 107.54535°W Datum : NAD1983

From the intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM, travel Easterly on US Hwy 64 for 24.0 miles to State Hwy 539;

Go left (Northerly) on State Hwy 539 for 2.2 miles to the road to Smith Pass;

Go right (North-easterly) on the road to Smith Pass for 2.2 miles;

Go left (North-westerly) for 1.1 miles to the Smith Pass summit;

Go right (Easterly) for 2.3 miles to fork in road;

Go right (South-westerly) for 0.2 miles to staked location which overlaps an existing wellpad.