

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 27 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-079514 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 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 RCVD SEP 24 '10 OIL CONS. DIV. DIST. 3	
4. Location of Well Surface: Unit O (SWSE), 1138' FSL & 1522' FEL BHL: Unit I (NESE), 2030' FSL & 510' FEL Surface: Latitude: 36.6782816° N (NAD83) Longitude: 107.5725080° W BHL: Latitude: 36.6807454° N (NAD83) Longitude: 107.5690610° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Unit O, Sec. 33, T29N, R7W Unit I, Sec. 33, T29N, R7W API # 30-039- 36993	
14. Distance in Miles from Nearest Town 20 miles from Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 510'	17. Acres Assigned to Well 320.00 E/2 (MV/DK)	
16. Acres in Lease 1235.920	 H₂S POTENTIAL EXIST	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 101' from SJ 29-7 77A (MV/DK)	20. Rotary or Cable Tools Rotary	
19. Proposed Depth 7472' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
21. Elevations (DF, FT, GR, Etc.) 6230' GL	23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	8-26-10 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

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

Hold C104

for Directional Survey and "As Drilled" plat

NMOC

OCT 06 2010

BLM'S APPROVAL OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

RECEIVED

DISTRICT I
1625 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, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
Mington Field Office
1220 South St. Francis
Santa Fe, N.M. 87505

Aug 27 2010

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30993		*Pool Code 71599 / 72319		BASIN DAKOTA / MESA VERDE		*Pool Name BLANCO	
*Property Code 7465		*Property Name SAN JUAN 29-7 UNIT				*Well Number 77N	
*GRID No. 14538		*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP				*Elevation 6230	

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
0	33	29 N	7 W		1138	SOUTH	1522	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
1	33	29 N	7 W		2030	SOUTH	510	EAST	RIO ARriba

*Dedicated Acres 320.00 (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

16 N 89°43'55" W 2637.00'		N 89°43'42" W 2637.02'		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: <u>Dollie L. Busse</u> Date: <u>7/30/10</u> Printed Name: <u>Dollie L. Busse</u>	
NOTE: BEARINGS & DISTANCES SHOWN ARE REFERENCED TO THE NEW MEXICO COORDINATE SYSTEM, WEST ZONE, NAD 83.		O = SURFACE LOCATION ● = BOTTOM HOLE LOCATION BHL LAT: 36.6807454° N LONG: 107.5690610° W NAD 83 LAT: 36°40.84430' N LONG: 107°34.10720' W NAD 27			
SECTION 33 USA SF-079514		510'		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: <u>04/14/10</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> 17078 Certificate Number	
2640.22'		N 48°15'32" E-1351.36'			
N 0°09'20" W		SURFACE LAT: 36.6782816° N LONG: 107.5725080° W NAD 83 LAT: 36°40.69647' N LONG: 107°34.31402' W NAD 27		2627.62'	
N 0°10'19" W		1522'		2627.62'	
N 89°20'32" W		2641.74'		S 89°33'03" W 2636.29'	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 77N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0046		AFE \$: 898,727.20	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: RIO ARRIBA
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: 36.678275	Longitude: -107.571900	X:	Y:	Section: 33	Range: 007W
Footage X: 1522 FEL	Footage Y: 1138 FSL	Elevation: 6230	(FT)	Township: 029N	
Tolerance:					
Location: Bottom Hole					
Datum Code: NAD 27		Directional			
Latitude: 36.680738	Longitude: -107.568453	X:	Y:	Section: 33	Range: 007W
Footage X: 510 FEL	Footage Y: 2030 FSL	Elevation:	(FT)	Township: 029N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6245 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
					BHT
Surface Casing	200	6045		☐	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	733	5512		☐	
OJO ALAMO	2038	4207		☐	
KIRTLAND	2184	4061		☐	
FRUITLAND	2535	3710		☐	232 Possible Gas
PICTURED CLIFFS	2953	3292		☐	1036
LEWIS	3103	3142		☐	111
Intermediate Casing	3303	2942		☐	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 824 cuft. Circulate cement to surface.
CHACRA	3918	2327		☐	
UPPER CLIFF HOUSE	4450	1795		☐	Gas
MASSIVE CLIFF HOUSE	4592	1653		☐	503 140 Gas
MENEFEE	4791	1454		☐	
POINT LOOKOUT	5131	1114		☐	
MANCOS	5645	600		☐	
UPPER GALLUP	6401	-156		☐	
GREENHORN	7141	-896		☐	
GRANEROS	7196	-951		☐	
TWO WELLS	7239	-994		☐	2399 193 Gas
PAGUATE	7291	-1046		☐	
UPPER CUBERO	7355	-1110		☐	
LOWER CUBERO	7381	-1136		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-7 UNIT 77N

DEVELOPMENT

ENCINAL	7447	-1202	☐	197
Total Depth	7472	-1227	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80 LTC casing. Cement w/ 568 cuft. Circulate cement a minimum of 100' inside the previous casing string.
BURRO CANYON	7487	-1242	☐	SJ 29-7 65M, 2.1 miles away - Hole got wet while drilling lower pnk - possible wet shoe? mud drill thru brcn - perf & acidize brcn & tested no pressure & no gas & started making wtr then set cibp.
MORRISON	7495	-1250	☐	

Reference Wells:

Reference Type	Well Name	Comments
Production	SAN JUAN 29-7 UNIT 77A	
Production	SAN JUAN 28-7 235	

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 gllp to td. Perf 15' above td. Mud logger 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 29-7 #77N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6245.0ft (AWS RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6245.0ft (AWS RIGS)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-7 #77N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
3,663.3	3,303.0	Int	7	8-3/4	
7,832.3	7,472.0	Prod	4-1/2	6-1/4	
230.0	230.0	Surf	9-5/8	12-1/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,741.3	7,381.0	Lower Cubero		0.00		
2,425.2	2,184.0	Kirtland		0.00		
5,151.3	4,791.0	Menefee		0.00		
7,715.3	7,355.0	Upper Cubero		0.00		
7,651.3	7,291.0	Paguate		0.00		
3,309.8	2,953.0	Pictured Cliffs		0.00		
7,501.3	7,141.0	Greenhorn		0.00		
6,005.3	5,645.0	Mancos		0.00		
736.3	733.0	Nacimiento		0.00		
2,852.8	2,535.0	Fruitland		0.00		
5,491.3	5,131.0	Point Lookout		0.00		
2,246.9	2,038.0	Ojo		0.00		
4,278.3	3,918.0	Chacra		0.00		
3,462.7	3,103.0	Lewis		0.00		
2,640.1	2,360.0	Stage Tool		0.00		
4,810.3	4,450.0	Upper Cliffhouse		0.00		
7,832.3	7,472.0	Total Depth		0.00		
7,556.3	7,196.0	Graneros		0.00		
4,952.3	4,592.0	Massive Cliffhouse		0.00		
6,761.3	6,401.0	Upper Gallup		0.00		
7,807.3	7,447.0	Encinal		0.00		
7,599.3	7,239.0	Two Wells		0.00		

REFERENCE INFORMATION

RKB @ 6245.0ft (AWS RIGS)
Ground Elevation 6230.0
Reference Lat: 36° 40' 41.788 N
Reference Long: 107° 34' 18.841 W

Project: San Juan Basin - New Mexico Well
Site: San Juan 29 Wells
Well: SJ 29-7 #77N
Wellbore: Principal Wellbore
Design: Plan #1

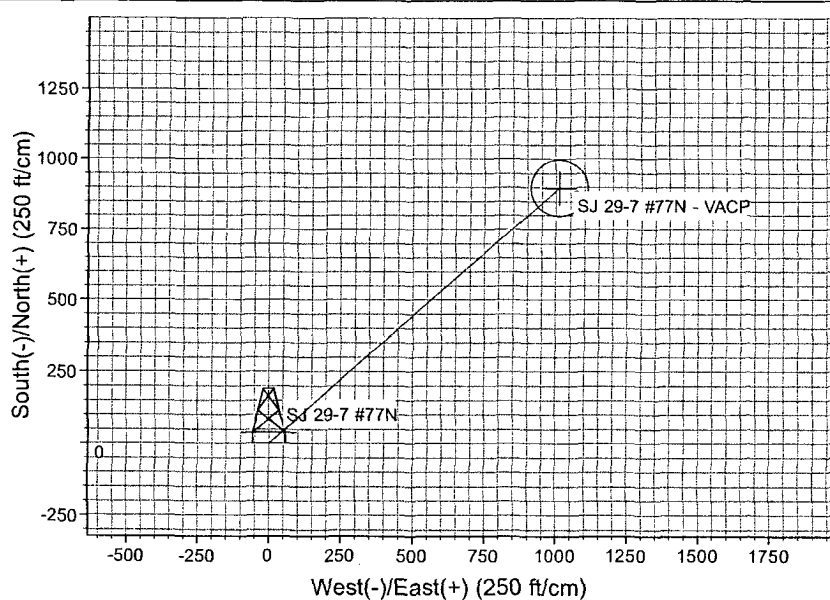
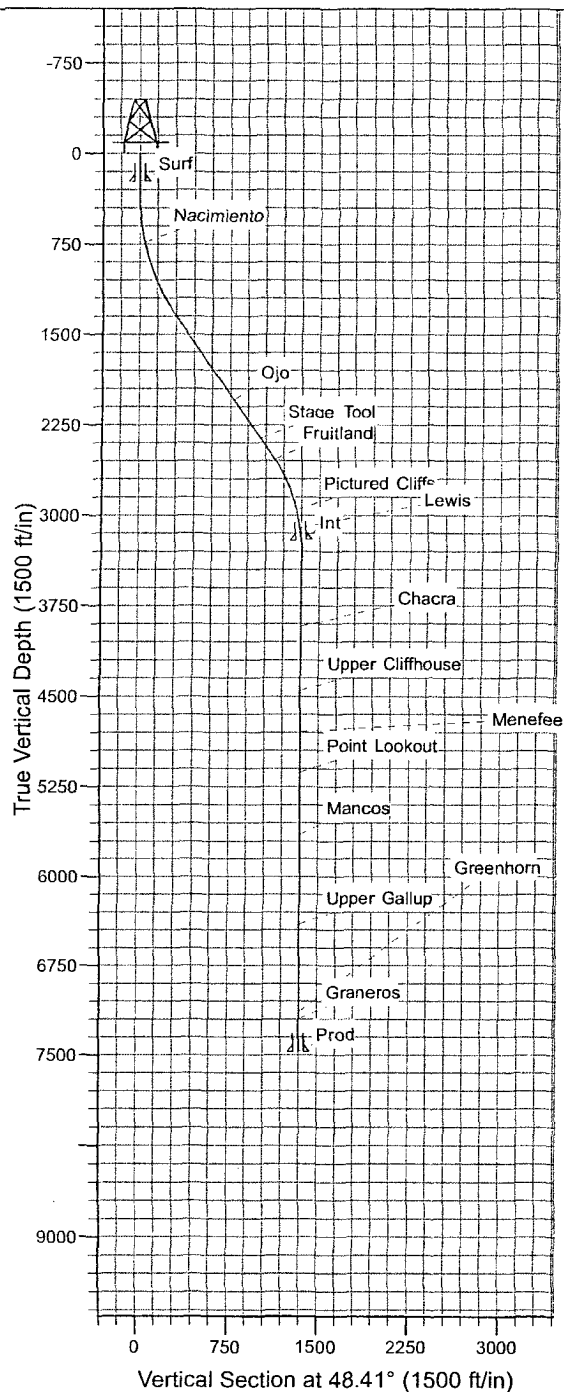
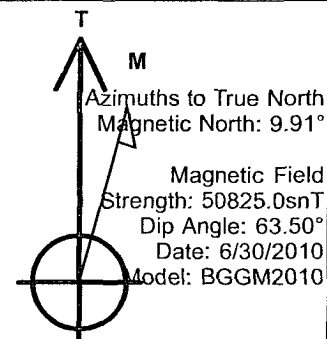


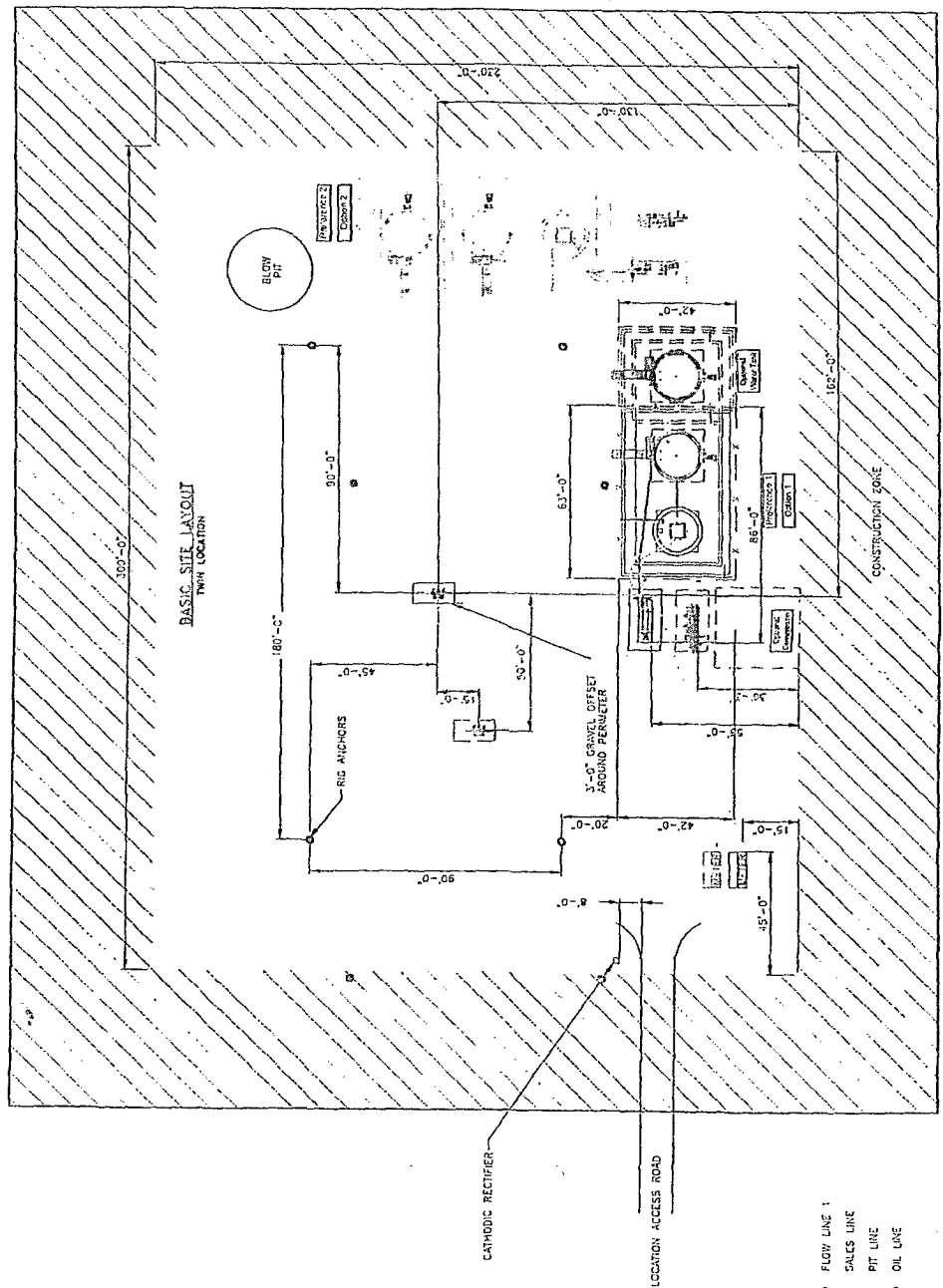
SECTION DETAILS

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	1487.4	35.02	48.41	1416.1	229.6	258.7	3.00	48.41	345.8	
4	2787.8	35.02	48.41	2480.9	724.9	816.8	0.00	0.00	1092.1	
5	3663.3	0.00	0.00	3303.0	897.0	1010.8	4.00	180.00	1351.5	SJ 29-7 #77N - ICP
6	7832.3	0.00	0.00	7472.0	897.0	1010.8	0.00	0.00	1351.5	SJ 29-7 #77N - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
733.0	736.3	Nacimiento
2038.0	2246.9	Ojo
2184.0	2425.2	Kirtland
2360.0	2640.1	Stage Tool
2535.0	2852.8	Fruitland
2953.0	3309.8	Pictured Cliffs
3103.0	3462.7	Lewis
3918.0	4278.3	Chacra
4450.0	4810.3	Upper Cliffhouse
4592.0	4952.3	Massive Cliffhouse
4791.0	5151.3	Menefee
5131.0	5491.3	Point Lookout
5645.0	6005.3	Mancos
6401.0	6761.3	Upper Gallup
7141.0	7501.3	Greenhorn
7196.0	7556.3	Graneros
7239.0	7599.3	Two Wells
7291.0	7651.3	Paguate
7355.0	7715.3	Upper Cubero
7381.0	7741.3	Lower Cubero
7447.0	7807.3	Encinal
7472.0	7832.3	Total Depth





SEE PAGE 3 & 4 FOR MORE DETAILS
 ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED

SHEET 1 OF 3

CONOCOPHILLIPS				HIGH PRESSURE 3 PHASE FACILITY DIAGRAM - SITE LAYOUT			
SAN JUAN BUSINESS UNIT				HP3PHASE-REV1			
DATE	BY	CHKD	ENG	DOC	NO.	REV	DESCRIPTION
10/1/00	W. J. B.					1	INITIAL
10/1/00	W. J. B.					2	REVISION
10/1/00	W. J. B.					3	REVISION
10/1/00	W. J. B.					4	REVISION
10/1/00	W. J. B.					5	REVISION
10/1/00	W. J. B.					6	REVISION
10/1/00	W. J. B.					7	REVISION
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10/1/00	W. J. B.					10	REVISION
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10/1/00	W. J. B.					94	REVISION
10/1/00	W. J. B.					95	REVISION
10/1/00	W. J. B.					96	REVISION
10/1/00	W. J. B.					97	REVISION
10/1/00	W. J. B.					98	REVISION
10/1/00	W. J. B.					99	REVISION
10/1/00	W. J. B.					100	REVISION

BURLINGTON RESOURCES OIL & GAS COMPANY LP

SAN JUAN 29-7 UNIT 77N

1138' FSL & 1522' FEL (SURFACE LOCATION)

2030' FSL & 510' FEL (BOTTOM HOLE LOCATION)

LATITUDE: 36.6782816° N

LONGITUDE: 107.5725080° W

NAD 83

SECTION 33, T-29-N, R-7-W, N.M.P.M.

RIO ARRIBA COUNTY, NEW MEXICO

FROM THE INTERSECTION OF U.S. HIGHWAY 550 AND
U.S. HIGHWAY 64 IN BLOOMFIELD, NEW MEXICO.

TRAVEL EAST 10.2 MILES ON U.S. HIGHWAY 64.
TURN RIGHT ONTO COUNTY ROAD 4450 INTO LARGO CANYON.
TRAVEL SOUTHEASTERLY 3.6 MILES.
TURN LEFT AT FORK IN ROAD AND CONTINUE TRAVELING SOUTHEASTERLY
2.3 MILES TOWARDS CARRIZO CANYON.
TURN RIGHT AND CONTINUE SOUTHEASTERLY
3.2 MILES INTO CARRIZO CANYON.
TURN LEFT AND FOLLOW CARRIZO CREEK 6.0 MILES.
TURN LEFT AT FORK AND TRAVEL NORTHEASTERLY 1.2 MILES
INTO DELGADITA CANYON.
GAIN ACCESS THROUGH LOCKED GATE.
AND CONTINUE NORTHEASTERLY 0.9 MILE.
TURN LEFT AT TEE INTERSECTION AND TRAVEL WESTERLY THEN NORTHERLY
1.0 MILE INTO PUEBLO CANYON.
TURN RIGHT AT FORK IN ROAD AND CONTINUE TRAVELING
0.5 MILE NORTHERLY TO PROPOSED SAN JUAN 29-7 UNIT 77N WELL LOCATION.