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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 11 2010

Bureau of Land Management

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-0606 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 RCVD MAY 3 '10 OIL CONS. DIV.
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Atlantic A DIST. 3 9. Well Number 8B
4. Location of Well Surf: Unit E(SWNW), 1956' FNL & 1237' FWL Bottomhole: Unit F(SENW), 1660' FNL & 1820' FWL Surf: Latitude: 36.87146° N (NAD83) Longitude: 107.91064° W Bottomhole: Latitude: 36.87228° N (NAD83) Longitude: 107.90864° W	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 29, T31N, R10W API # 30-045-35086
14. Distance in Miles from Nearest Town 8 miles / Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1237'	H ₂ S POTENTIAL EXIST
16. Acres in Lease 2,394.720	17. Acres Assigned to Well 328.94 (N/2) - MV
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 140' from Atlantic A LS 11	
19. Proposed Depth 5342'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 5951' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date: <u>4/11/2010</u>

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

Hold C104

for Directional Survey
and "As Drilled" plat

MAY 05 2010

NOTIFY AZTEC CCD 24 HRS.

PRIOR TO CASING & CEMENT

PERMIT TO DRILL, DEEPEN, OR PLUG BACK OF THIS
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

AMMOCD

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

State of New Mexico
Energy, Minerals & Natural Resources Department

RECEIVED

Form C-102
Revised October 12, 2005

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

Submit to Appropriate District Office

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

OIL CONSERVATION DIVISION JAN 11 2010

State Lease - 4 Copies
Fee Lease - 3 Copies

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

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

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35086		*Pool Code 72319	*Pool Name BLANCO MESAVERDE
*Property Code 6800	*Property Name ATLANTIC A		*Well Number 8 B
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5951'

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	29	31N	10W	5	1956'	NORTH	1237'	WEST	SAN JUAN

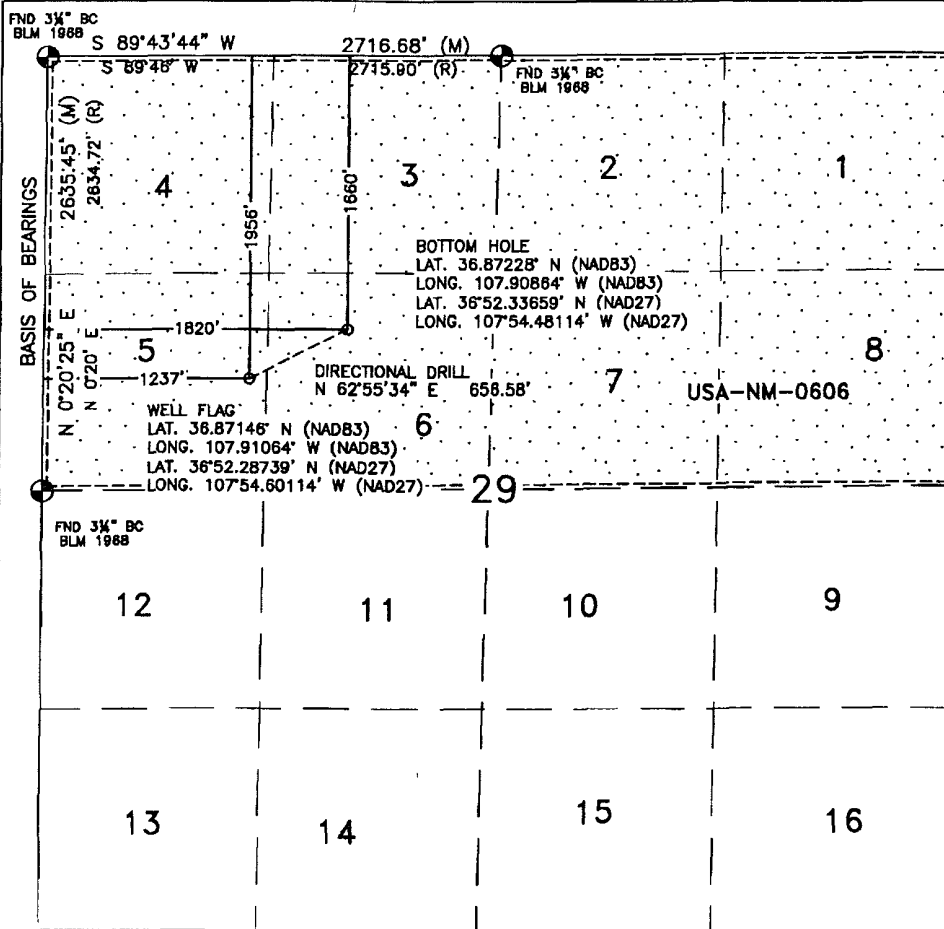
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	29	31N	10W	6	1660'	NORTH	1820'	WEST	SAN JUAN

¹² Dedicated Acres 328.94 ACRES - N/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

16



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.

Ethel Tally 10-6-09
Signature Date

Ethel Tally
Printed Name

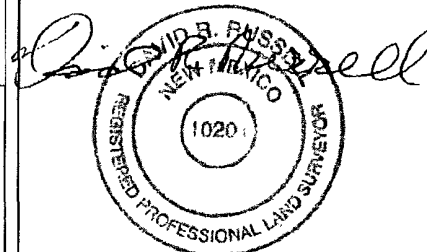
18 SURVEYOR CERTIFICATION

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.

AUGUST 19, 2009

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ATLANTIC A 8B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9321		AFE \$: 1,247,080.52	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Phone:		Phone:		Phone:	
Primary Objective (Zones):					
Zone	Zone Name				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional:					
Latitude: 36.871456	Longitude: -107.910019	X:	Y:	Section: 29	Range: 010W
Footage X: 1237 FWL	Footage Y: 1956 FNL	Elevation: 5951	(FT)	Township: 031N	
Tolerance:					
Location: Below Hole Datum Code: NAD 27 Directional:					
Latitude: 36.872276	Longitude: -107.908019	X:	Y:	Section: 29	Range: 010W
Footage X: 1820 FWL	Footage Y: 1660 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:	
Formation Data: Assume KB = 5965		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
NACIMIENTO	-151	6116	☐		
Surface Casing	200	5765	☐		
OJO ALAMO	1241	4724	☐		
KIRTLAND	1321	4644	☐		
FRUITLAND	2117	3848	☐		Possible Gas
PICTURED CLIFFS	2649	3316	☐		
LEWIS	2783	3182	☐		
Intermediate Casing	2883	3082	☐		
HUERFANITO BENTONITE	3359	2606	☐		
CHACRA	3710	2255	☐		
UPPER CLIFF HOUSE	4249	1716	☐		Gas; Est. Top Perf - 4251 (1714)
MASSIVE CLIFF HOUSE	4356	1609	☐	379	Gas
MENELEE	4457	1508	☐		
POINT LOOKOUT	4891	1074	☐		Est. Btm Perf - 5242 (723) based on offset wells
MANCOS	5247	718	☐		TD - 100' Below Btm Perf
Total Depth	5342	623	☐		
6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 340 cuft. Circulate cement a minimum of 100' inside the previous casing string.					
Reference Wells:					
Reference Type	Well Name	Comments			
Production	Atlantic 7A	31N 10W 29 SW NE SW			
Production	Atlantic A 8A	31N 10W 29 SE NW NW			
Production	Atlantic A 7B	31N 10W 29 NW NW SW			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

ATLANTIC A 8B

DEVELOPMENT

Production	Atlantic A 11	31N 10W 29 NE SW NW
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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

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 Atlantic A8B
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 5965.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 5965.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Atlantic A8B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Atlantic A8B		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
5,446.2	5,342.0	Prod	4-1/2	6-1/4	
2,987.2	2,883.0	Int	7	8-3/4	
200.0	200.0	Surface	9-5/8	12	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,887.1	2,783.0	Lewis		0.00		
4,561.2	4,457.0	Menefee		0.00		
4,353.2	4,249.0	Upper Cliff House		0.00		
2,199.4	2,117.0	Fruitland		0.00		
2,752.6	2,649.0	Pictured Cliffs		0.00		
3,463.2	3,359.0	Huerf Bent		0.00		
5,351.2	5,247.0	Mancos Shale		0.00		
1,257.7	1,241.0	Ojo Alamo		0.00		
4,995.2	4,891.0	Pt Lookout		0.00		
3,814.2	3,710.0	Chacra		0.00		
4,460.2	4,356.0	Massive Cliff House		0.00		
1,342.6	1,321.0	Kirtland		0.00		

REFERENCE INFORMATION

WELL @ 5965.0ft (Original Well Elev)
Ground Elevation 5951.0
Reference Lat: 36° 52' 17.242 N
Reference Long: 107° 54' 36.068 W

Project: San Juan Basin - New Mexico Wells

Site: Other Named Wells

Well: Atlantic A8B

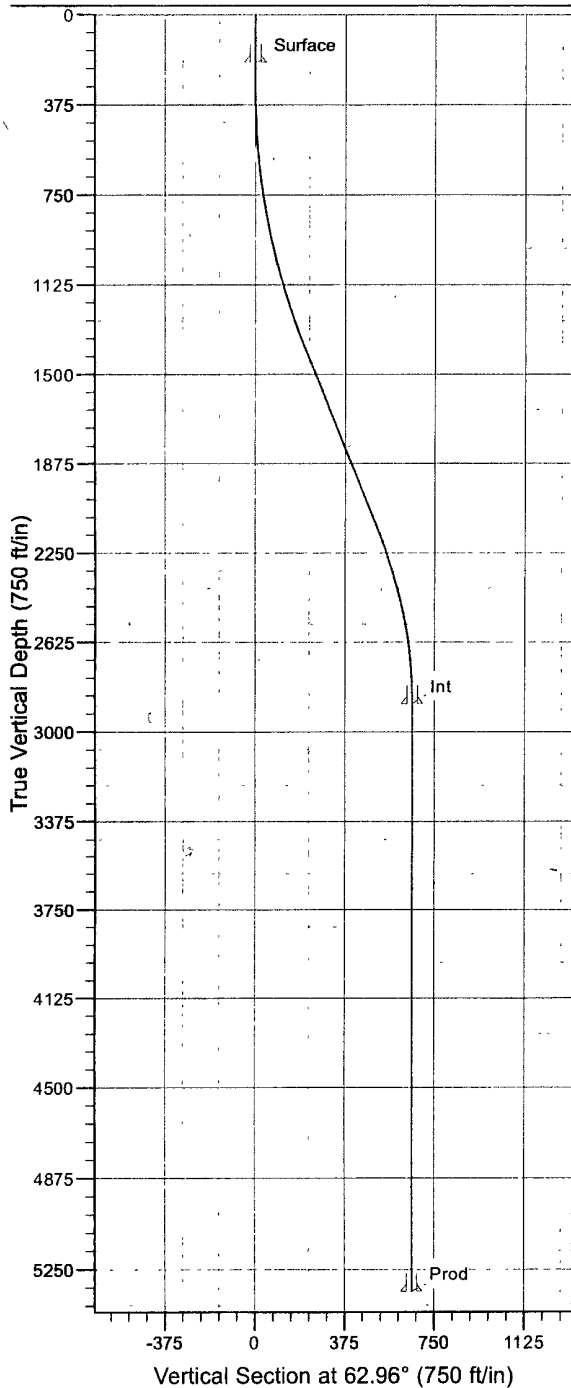
Wellbore: Atlantic A8B

Design: Plan #1



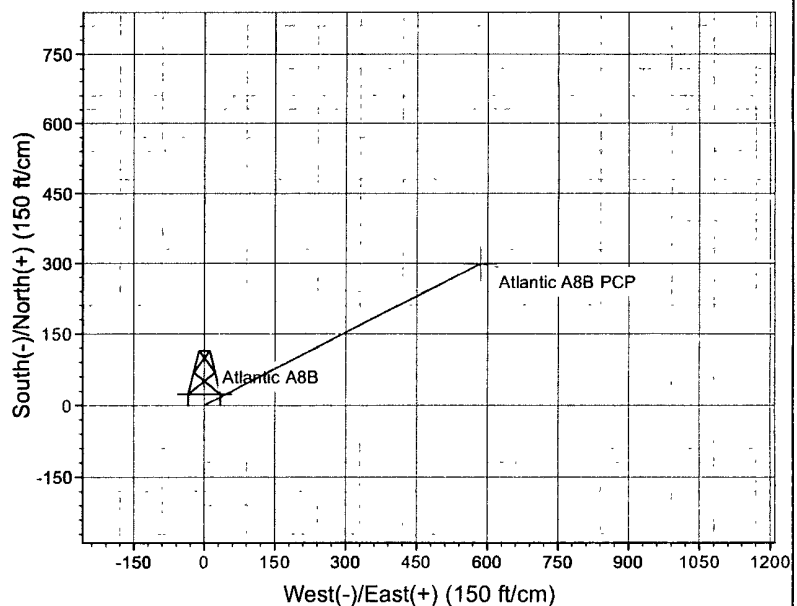
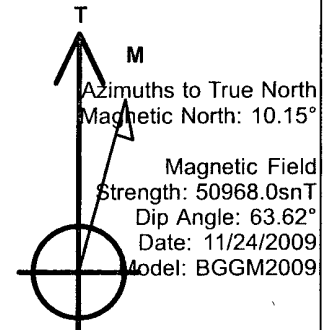
SECTION DETAILS

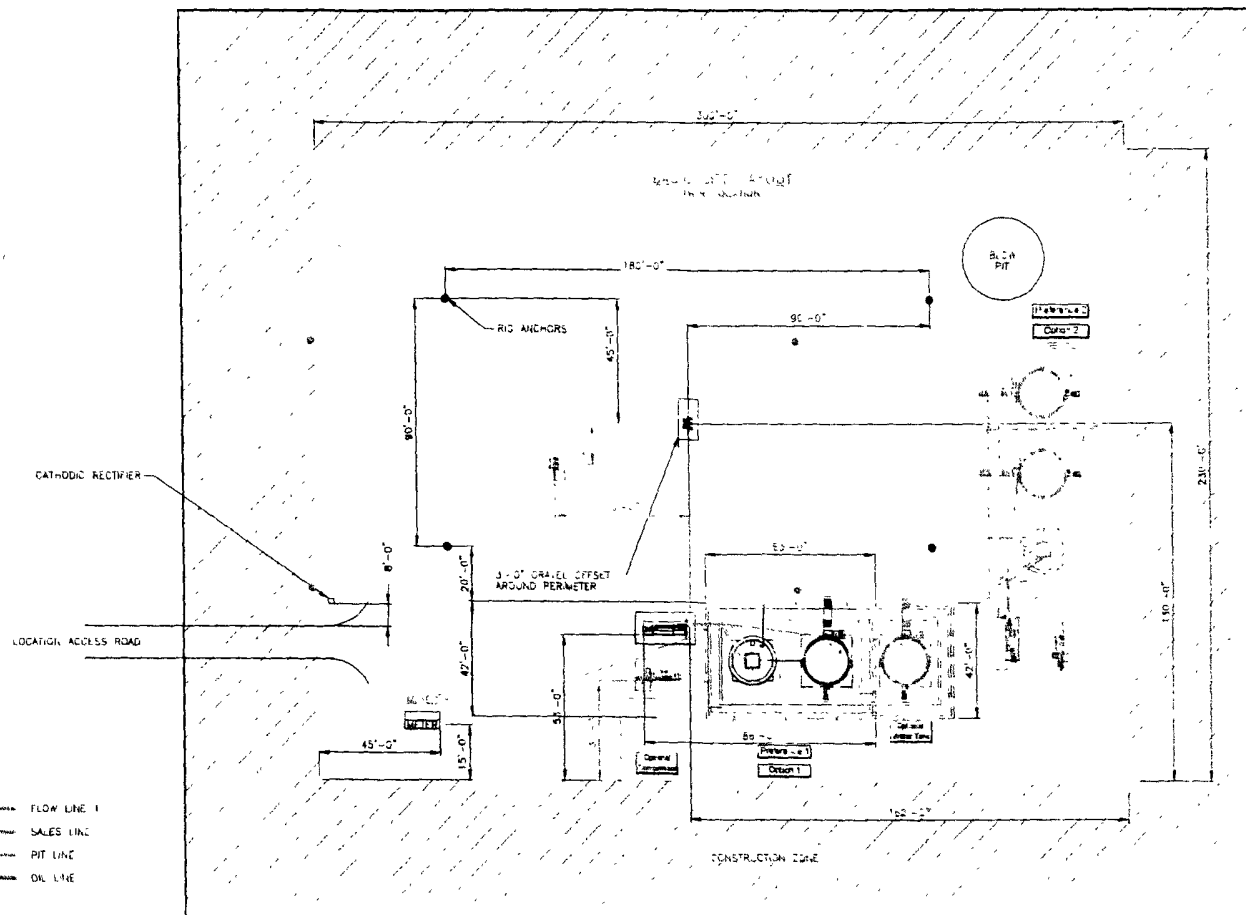
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1408.3	21.77	62.96	1382.3	92.8	181.9	2.00	62.96	204.2	
4	2261.6	21.77	62.96	2174.8	236.7	463.8	0.00	0.00	520.7	
5	2987.2	0.00	0.00	2883.0	298.6	585.1	3.00	180.00	656.8	Atlantic A8B ICP
6	5446.2	0.00	0.00	5342.0	298.6	585.1	0.00	0.00	656.8	Atlantic A8B PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1241.0	1257.7	Ojo Alamo
1321.0	1342.6	Kirtland
2117.0	2199.4	Fruitland
2649.0	2752.6	Pictured Cliffs
2783.0	2887.1	Lewis
3359.0	3463.2	Huerf. Bent.
3710.0	3814.2	Chacra
4249.0	4353.2	Upper Cliff House
4356.0	4460.2	Massive Cliff House
4457.0	4561.2	Menefee
4891.0	4995.2	Pt. Lookout
5247.0	5351.2	Mancos Shale





FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE PROJECT 3 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 4'-0" TO 6'-0"

SCALE: 1" = 10'-0"

ENGINEERING REVIEW										REFERENCE (DRAWINGS)		CONOCOPhillips	FACILITY DIAGRAM - SITE LAYOUT	
NO.	DESCRIPTION	DATE	BY	CHK'D	ENC	ENVL	APV	PROJECT	DISCIPLINE	REVISION	DATE		NO.	DESCRIPTION
									PROCESS					
									MECHANICAL					
									Piping					
									ELECTRICAL					
									I & C					
									CIVIL/STRUCTURAL					
									PROJECT					
												SAN JUAN BUSINESS UNIT		
												PROJECT NO. 11-11-11 DRAWN BY: [Name] DATE: 11/11/11 REVISED: 11/11/11 HR3PHASE-REV1		

BURLINGTON RESOURCES OIL & GAS COMPANY LP

ATLANTIC A #8 B
1956' FNL & 1237' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 29,
T31N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN AZTEC, GO 0.8 MILES TO THE INTERSECTION OF HWY 550 & HWY 516.
- 2) CONTINUE RIGHT ON HWY 550 AND TRAVEL NORTH FOR 4.2 MILES.
- 3) TURN RIGHT ONTO CR 2770 (HART CANYON) & GO 2.3 MILES.
- 4) TURN LEFT & GO 600' TO STAKED LOCATION.

WELL FLAG LOCATED AT LAT. 36.87146° N, LONG. 107.91064° W (NAD 83).

