

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 11 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-078119-A 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. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Mark Maddox 9. Well Number 1M	
4. Location of Well Surf: Unit J(NWSE), 1607' FSL & 1803' FEL Bottomhole: Unit P (SESE), 710' FSL & 1185' FEL Surf: Latitude: 36.98209° N (NAD83) Longitude: 107.97383° W Bottomhole: Latitude: 36.97963° N (NAD83) Longitude: 107.97166° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 15, T32N, R11W API # 30-045-35085	
14. Distance in Miles from Nearest Town 21 miles / Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'		
16. Acres in Lease 80.00	17. Acres Assigned to Well 320.00 (E/2) - MV/DK	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 52' from Mark Maddox 1A (MV/PC)		
19. Proposed Depth 7822' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6416' 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>1/11/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

Acting AFM Minerals DATE 4/29/10

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

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

MAY 05 2010

NMOCD

Hold C104

for Directional Survey
and "As Drilled" plat

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

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

OIL CONSERVATION DIVISION

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

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87605

Submit to Appropriate District Office
State lease - 4 Copies
Fee Lease - 3 Copies
Bureau of Land Management
Farmington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35085		*Pool Code 72319/71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 18576	*Property Name MARK MADDIX		*Well Number 1 M
*OGRID No. 14532	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 6416'

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
J	15	32N	11W		1607'	SOUTH	1803'	EAST	SAN JUAN

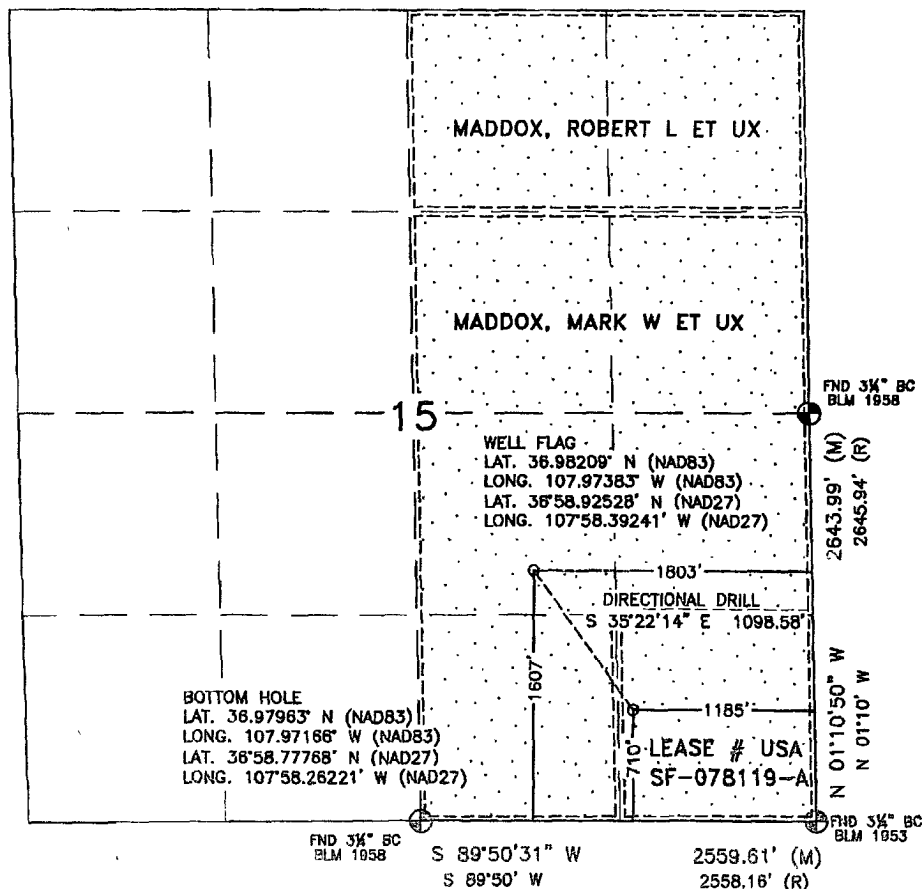
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	15	32N	11W		710'	SOUTH	1185'	EAST	SAN JUAN

¹³ Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320.00 ACRES - E/2			

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 hereinafter entered by the division.

Mary Moore 7/10/11
Signature Date

Tracey N. Monroe
Printed Name

18 SURVEYOR CERTIFICATION

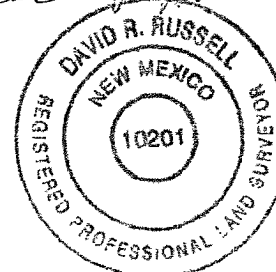
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 3, 2009

Date of Survey _____

Signature and Seal of Professional Surveyor:

Bill Russell



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MARK MADDOX 1M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9316		AFE \$: 1,673,627.52	
Field Name: SAN JUAN		Rig: XXX 2011 Holding Rig #2		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
RON	BLANCO MESAVERDE (PRORATED GAS)				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Datum Code: NAD 27					
Latitude: 36.982088	Longitude: -107.973207	X:	Y:	Section: 15	Range: 011W
Footage X: 1803 FEL	Footage Y: 1607 FSL	Elevation: 6416	(FT)	Township: 032N	
Tolerance:					
Location: Datum Code: NAD 27					
Latitude: 36.979628	Longitude: -107.971037	X:	Y:	Section: 15	Range: 011W
Footage X: 1185 FEL	Footage Y: 710 FSL	Elevation:	(FT)	Township: 032N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6432 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6232	☐		
OJO ALAMO	1647	4785	☐		
KIRTLAND	2468	3964	☐		
FRUITLAND	2480	3952	☐		Possible Gas
PICTURED CLIFFS	3145	3287	☐		
LEWIS	3272	3160	☐		
Intermediate Casing	3372	3060	☐		
HUERFANITO BENTONITE	3818	2614	☐		
CHACRA	4290	2142	☐		
UPPER CLIFF HOUSE	4681	1751	☐		Gas; Est. Top Perf - 4681 (1749)
MASSIVE CLIFF HOUSE	4986	1446	☐	380	Gas
MENEFEE	5060	1372	☐		
POINT LOOKOUT	5417	1015	☐		
MANCOS	5775	657	☐		
UPPER GALLUP	6806	-374	☐		
GREENHORN	7500	-1068	☐		
GRANEROS	7554	-1122	☐		
TWO WELLS	7631	-1199	☐	2827	Gas
PAGUATE	7695	-1263	☐		
UPPER CUBERO	7716	-1284	☐		
LOWER CUBERO	7722	-1290	☐		Est. Btm Perf - 7800 (-1370) based on offset wells
ENCINAL	7782	-1350	☐		TD - 40' below T/ENCN

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MARK MADDOX 1M

DEVELOPMENT

Total Depth	7822	-1390	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 605 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	FC Barnes Com 1	32N 11W 15 NW SE SW
Production	Mark Maddox 1-A	32N 11W 15 SE NW SE
Production	Horton 9	32N 11W 22 NE SW NE

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT	☒ Other
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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

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Mark Maddox #1M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6432.0ft (H&P rigs)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6432.0ft (H&P rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Mark Maddox #1M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,731.4	7,500.0	Greenhorn		0.00		
1,737.7	1,647.0	Ojo Alamo		0.00		
8,053.4	7,822.0	Total Depth		0.00		
6,006.4	5,775.0	Mancos		0.00		
7,862.4	7,631.0	Two Wells		0.00		
7,037.4	6,806.0	Upper Gallup		0.00		
5,291.4	5,060.0	Menefee		0.00		
4,049.4	3,818.0	Huerfano Bentonite		0.00		
2,661.8	2,468.0	Kirtland		0.00		
7,926.4	7,695.0	Paguate		0.00		
7,785.4	7,554.0	Graneros		0.00		
3,503.4	3,272.0	Lewis		0.00		
8,013.4	7,782.0	Encinal		0.00		
4,521.4	4,290.0	Chacra		0.00		
3,375.9	3,145.0	Pictured Cliffs		0.00		
7,947.4	7,716.0	Upper Cubero		0.00		
5,648.4	5,417.0	Point Lookout		0.00		
7,953.4	7,722.0	Lower Cubero		0.00		
5,217.4	4,986.0	Massive Cliff House		0.00		
4,912.4	4,681.0	Upper Cliff House		0.00		
2,675.4	2,480.0	Fruitland		0.00		

REFERENCE INFORMATION

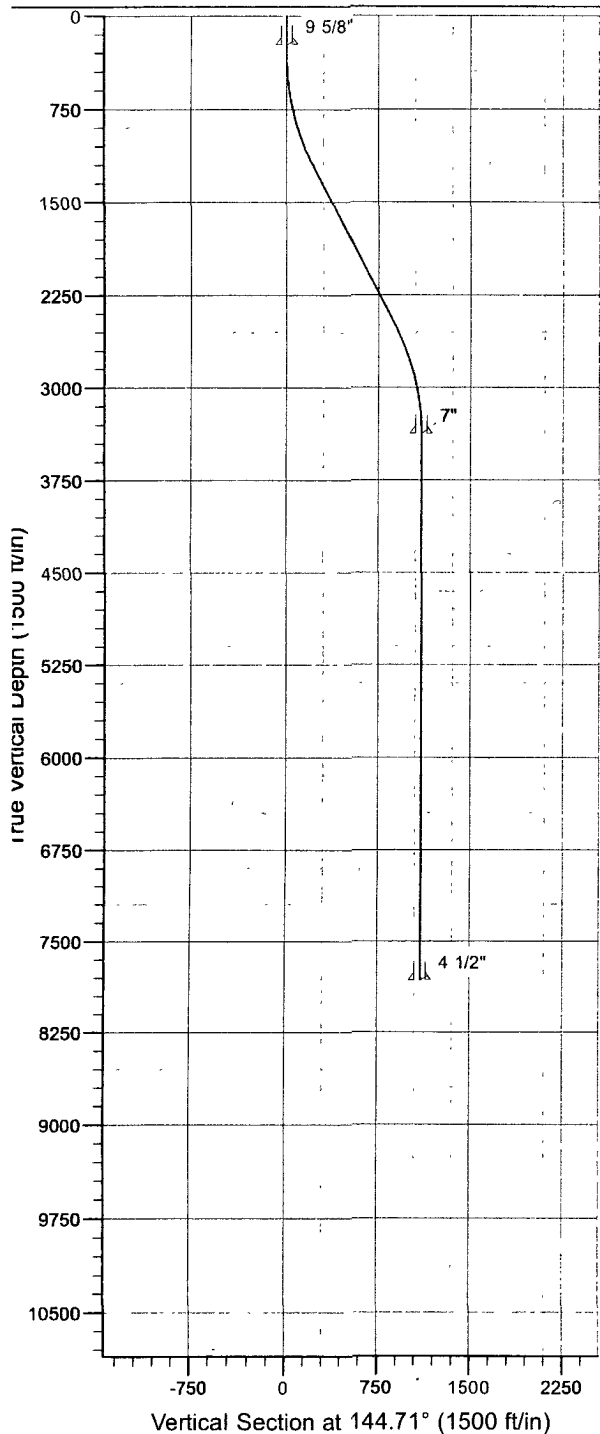
RKB@ 6432.0ft (H&P rigs)
Ground Elevation 6416.0
Reference Lat: 36° 58' 55.517 N
Reference Long: 107° 58' 23.545 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Mark Maddox #1M
Wellbore: Principal Wellbore
Design: Plan #1



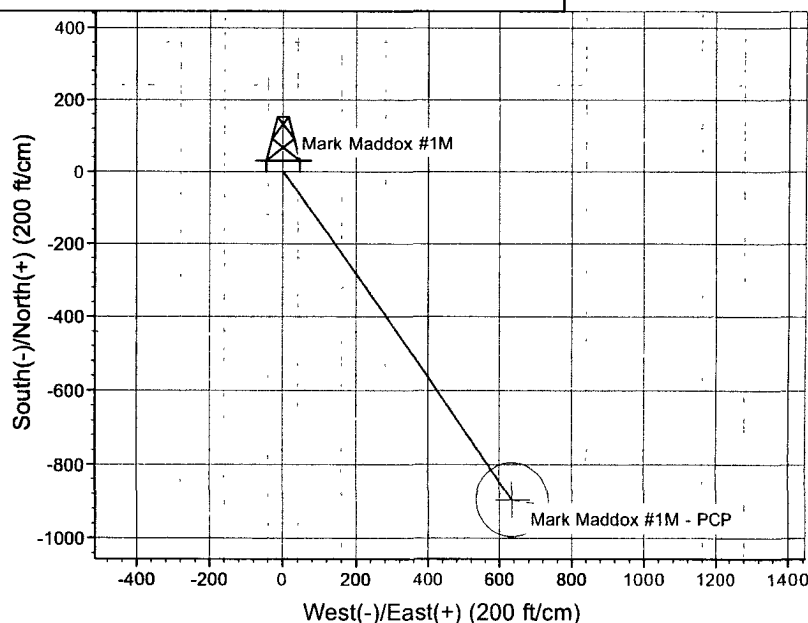
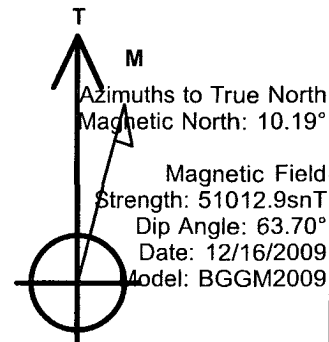
SECTION DETAILS

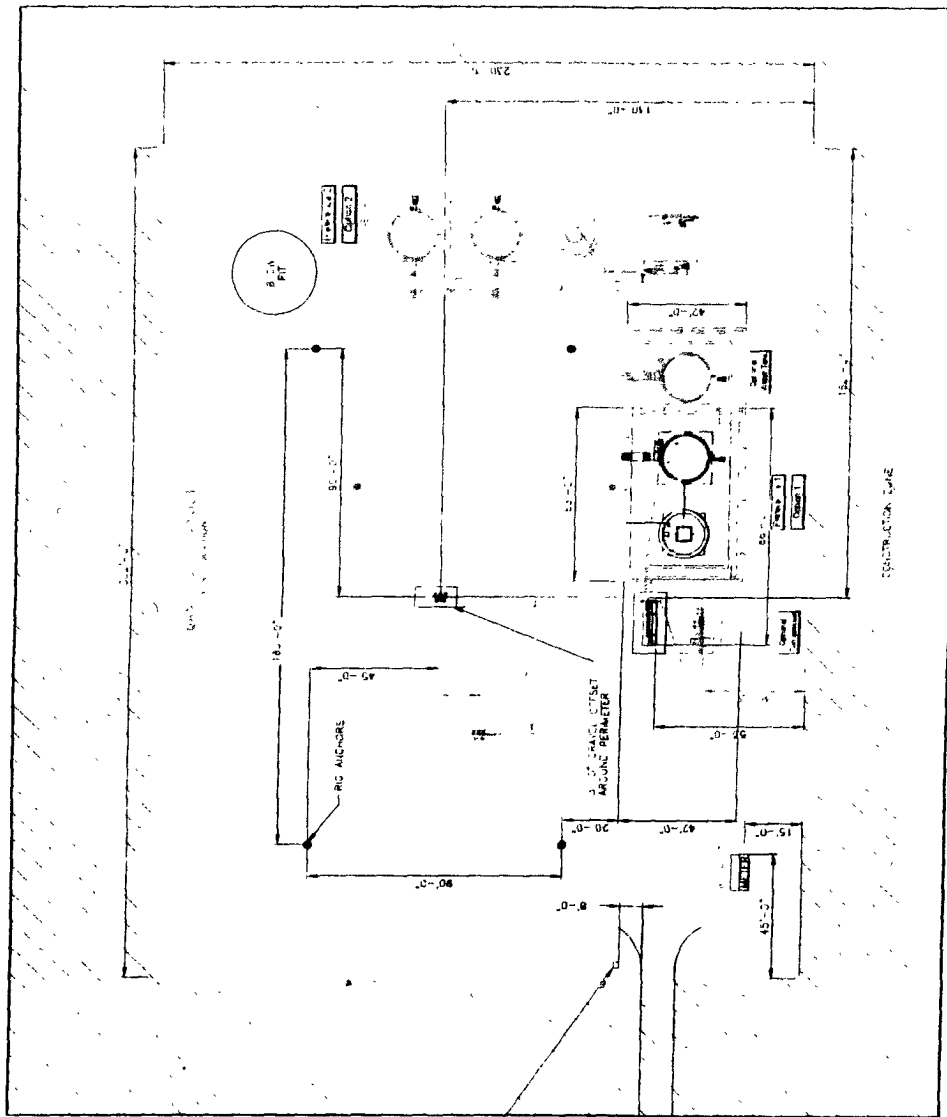
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1230.9	27.33	144.71	1196.8	-174.0	123.1	3.00	144.71	213.2	
4	2692.5	27.33	144.71	2495.2	-721.7	510.8	0.00	0.00	884.1	
5	3603.4	0.00	0.00	3372.0	-895.7	633.9	3.00	180.00	1097.3	Mark Maddox #1M - ICP
6	8053.4	0.00	0.00	7822.0	-895.7	633.9	0.00	0.00	1097.3	Mark Maddox #1M - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1647.0	1737.7	Ojo Alamo
2468.0	2661.8	Kirtland
2480.0	2675.4	Fruitland
3145.0	3375.9	Pictured Cliffs
3272.0	3503.4	Lewis
3818.0	4049.4	Huerfano Bentonite
4290.0	4521.4	Chacra
4681.0	4912.4	Upper Cliff House
4986.0	5217.4	Massive Cliff House
5060.0	5291.4	Menefee
5417.0	5648.4	Point Lookout
5775.0	6006.4	Mancos
6806.0	7037.4	Upper Gallup
7500.0	7731.4	Greenhorn
7554.0	7785.4	Graneros
7631.0	7862.4	Two Wells
7695.0	7926.4	Paguate
7716.0	7947.4	Upper Cubero
7722.0	7953.4	Lower Cubero
7782.0	8013.4	Encinal
7822.0	8053.4	Total Depth





FLOW LINE 1	SALES LINE	PIT LINE	ONLINE
1	1	1	1
2	2	2	2
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SECRET
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED
DATE 11-14-01 BY 60322 UCBAW

[illegible]

BURLINGTON RESOURCES OIL & GAS COMPANY LP

MARK MADDOX #1 M

1607' FSL & 1803' FEL

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

T32N, R11W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM THE INTERSECTION OF HWY 516 & HWY 550 IN AZTEC, TRAVEL EASTERLY ON HWY 550 FOR 10.7 MILES.
- 2) TURN LEFT ON CR 2300 & GO 6.4 MILES.
- 3) TURN LEFT & GO 3.1 MILES AROUND LOCATION.
- 4) CONTINUE RIGHT & .69 MILES
- 5) TURN LEFT & GO 0.4 MILES WHERE PAD IS TWINNED ON EXISTING LOCATION.

WELL FLAG LOCATED AT LAT. 36.98209° N, LONG. 107.97383° W (NAD 83).

JOB No.: COPC319
DATE: 06/23/09



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