

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 18 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-076958 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 JUL 25 '11 OIL CONS. DIV.	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Hare DIST. 3 9. Well Number 16N	
4. Location of Well Surface: Unit G(SWNE), 1433' FNL & 2358' FEL Surface: Latitude: 36.75751° N (NAD83) LOT 11 Longitude: 107.87117° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 3, T29N, R10W API # 30-045-35286	
14. Distance in Miles from Nearest Town 9 miles from Aztec, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1433'		
16. Acres in Lease 2336.05 acres	17. Acres Assigned to Well 296.11 acres MV/DK - N/2	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 474' from (BR) Hare 290 (FC)		
19. Proposed Depth 6860'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5903' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>May 17, 2011</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 7/15/11

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

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

AUG 11 2011

NMOCD

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

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

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.

NOTIFY AZFEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

Drilling Condition of Approval

As a condition of approval, Burlington Resources must provide the BLM Farmington Field Office *Loco* a copy of the H2S Contingency Plan associated to this well, prior to spud. This plan must be implemented prior to drilling a minimum of **500 feet** from the top of the Mesaverde formation.

TLS-BLM

RECEIVED

DISTRICT I
1025 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

MAY 18 2011

Form C-102
Revised July 10, 2010

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

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

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

Submit one copy to appropriate
Farmington Field Office District Office
Bureau of Land Management

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045- 35286		² Pool Code 72319/71599		³ Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
⁴ Property Code 7091		⁵ Property Name HARE			⁶ Well Number 16N
⁷ GRID No. 14538		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			⁹ Elevation 5903'

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
G	3	29N	10W	11	1433'	NORTH	2358'	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
G									
¹² Dedicated Acres 296.11 ACRES - N/2			¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.		

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

18

BASIS OF BEARINGS									
<p>T 30 N</p> <p>N 89°44'14" W 2612.77' (M) FND 3/4" BC BLM 1967</p> <p>N 89°45' W 2614.26' (R)</p> <p>T 29 N</p> <p>FND 3/4" BC BLM 1967</p> <p>2434.22' (M) 2436.72' (R)</p> <p>2358'</p> <p>N 01°22'42" E N 01°22' E</p> <p>FND 3/4" BC BLM 1967</p>									
<p>WELL FLAG</p> <p>LAT. 36.75751° N (NAD83)</p> <p>LONG. 107.87117° W (NAD83)</p> <p>LAT. 36°45.45030' N (NAD27)</p> <p>LONG. 107°52.23320' W (NAD27)</p> <p>LEASE # USA SF-076958</p>									
8	7	6	5						
9	10	11	12						
16	15	14	13						
17	18	19	20						

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.

Brandie Blakley
Signature Date

Brandie Blakley 2/1/11
Printed Name

blaklbn@conocophillips.com
E-mail Address

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.

DECEMBER 20, 2010
Date of Survey

Signature and Seal of Professional Surveyor:
David Russell

DAVID RUSSELL
REGISTERED PROFESSIONAL LAND SURVEYOR
10201

DAVID RUSSELL
Certificate Number 10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HARE 16N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0123		AFE \$: 480,970.00	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				
R20002	MESAVERDE(R20002)				
Location: Surface Datum Code: NAD 27 Straight Hole					
Latitude: 36.757505		Longitude: -107.870551		X:	Y:
Footage X: 2358 FEL		Footage Y: 1433 FNL		Elevation: 5903 (FT)	Section: 03
Tolerance:		Range: 010W			
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:	
Formation Data: Assume KB = 5918		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	200	5718		<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.
OJO ALAMO	1089	4829		<input type="checkbox"/>	
KIRTLAND	1260	4658		<input type="checkbox"/>	
FRUITLAND	1838	4080		<input type="checkbox"/>	Possible Gas
PICTURED CLIFFS	2354	3564		<input type="checkbox"/>	
LEWIS	2494	3424		<input type="checkbox"/>	
HUERFANITO BENTONITE	3129	2789		<input type="checkbox"/>	
CHACRA	3370	2548		<input type="checkbox"/>	
UPPER CLIFF HOUSE	3931	1987		<input type="checkbox"/>	Gas; Cliffhouse is wet
MASSIVE CLIFF HOUSE	4020	1898		<input type="checkbox"/>	492 Gas
MENEFFEE	4118	1800		<input type="checkbox"/>	Est. Top Perf - 4318 (1600)
Intermediate Casing	4268	1650		<input type="checkbox"/>	140 8 3/4" Hole. 7", 20/23 ppf, J-55, STC/LTC Casing. Cement with 962 cuft. Circulate cement to surface.
POINT LOOKOUT	4635	1283		<input type="checkbox"/>	
MANCOS	5046	872		<input type="checkbox"/>	
UPPER GALLUP	5874	44		<input type="checkbox"/>	
GREENHORN	6606	-688		<input type="checkbox"/>	
GRANEROS	6662	-744		<input type="checkbox"/>	
TWO WELLS	6721	-803		<input type="checkbox"/>	2016 Gas
PAGUATE	6792	-874		<input type="checkbox"/>	Est. Btm Perf - 6830 (- 912) based on offset wells
LOWER CUBERO	6845	-927		<input type="checkbox"/>	TD - 15' below T/CBRL
UPPER CUBERO	6845	-927		<input type="checkbox"/>	
Total Depth	6860	-942		<input type="checkbox"/>	190 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 357 cuft. Circulate cement a minimum of 100' inside the previous casing string.
ENCINAL	6908	-990		<input type="checkbox"/>	
Reference Wells:					

PROJECT PROPOSAL - New Drill / Sidetrack

HARE 16N

DEVELOPMENT

Reference Type	Well Name	Comments
Production	Hare 15M	29N 10W 3 NE SW SE
Production	Sanchez 3M	30N 10W 34 NE SE SW
Production	Hare 16D	29N 10W 3 SE NE

Logging Program:

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

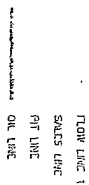
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

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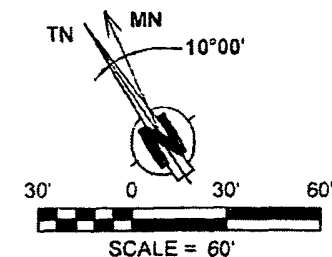


SEE PAGE 3 & 4 FOR RIGHTS DETAILS
ALL UNDISCLOSED PAGE IS TO BE PRINTED AT THE OF 3-0-102

WELL FLAG
 LATITUDE: 36.75751° N
 LONGITUDE: 107.87117° W
CENTER OF PIT
 LATITUDE: 36.75767° N
 LONGITUDE: 107.87109° W
 ELEVATION: 5888'
 DATUM: NAD83 & NAVD88

BURLINGTON RESOURCES OIL & GAS COMPANY LP

HARE #16N
 1433' FNL & 2358' FEL
 LOCATED IN THE SW/4 NE/4 OF SECTION 3,
 T29N, R10W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 5903', NAVD 88
 FINISHED PAD ELEVATION: 5900.0', NAVD 88

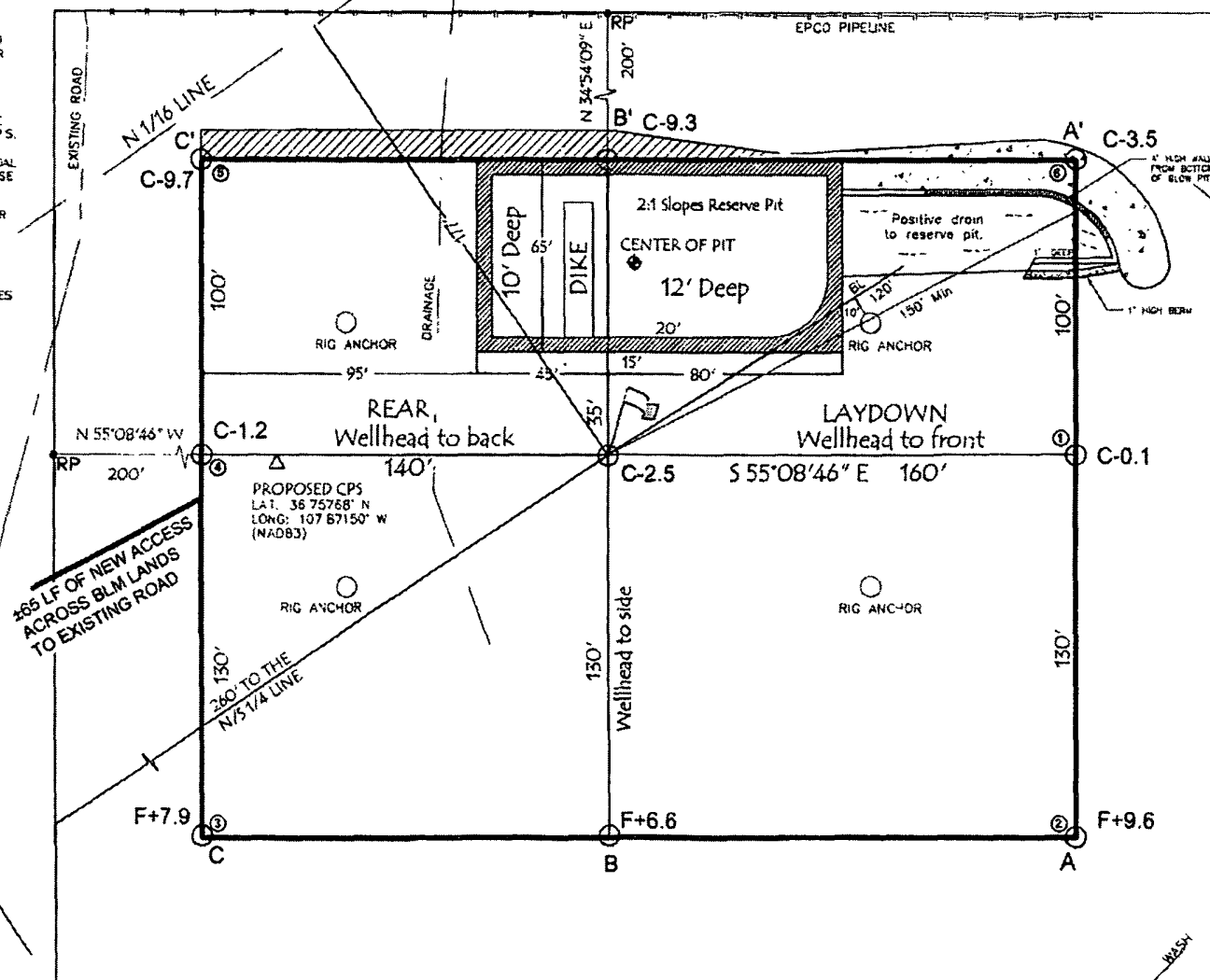


NOTES

1) BASIS OF BEARING BETWEEN FOUND MONUMENTS AT THE NORTHEAST CORNER AND THE NORTH QUARTER CORNER OF SECTION 3, TOWNSHIP 29 NORTH, RANGE 10 WEST, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO.
 LINE BEARS: N 89°44'14" W A DISTANCE OF 2812.77 FEET AS MEASURED BY G.P.S.

2) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORS L1 PHASE CENTER. DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83. NAVD88 ELEVATIONS AS PREDICTED BY GEOD03

3) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO ONE-CALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION



TOTAL PERMITTED AREA
 330' x 400' = 3.03 ACRES
SCALE: 1" = 60'
JOB No.: COPC409
DATE: 01/06/11
DRAWN BY: GRR

NOTE:

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
 CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.



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

BURLINGTON RESOURCES OIL & GAS COMPANY LP

HARE #16N

1433' FNL & 2358' FEL

LOCATED IN THE SW/4 NE/4 OF SECTION 3,

T29N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN AZTEC, TRAVEL NORTH ON HWY 550 TO HWY 173.
- 2) TURN RIGHT ON TO HWY 173 AND TRAVEL 4.3 MILES TO HWY 575.
- 3) TURN RIGHT ON TO HWY 575 AND TRAVEL 4.3 MILES.
- 4) TURN LEFT ON A DIRT ROAD AND TRAVEL 500' TO THE FLAGGED ACCESS ON THE RIGHT.

WELL FLAG LOCATED AT LAT. 36.75751° N, LONG. 107.87117° W (NAD 83).

