

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	207 JUL 16 PM 3:43 RECEIVED 210 HADJISTON NM	5. Lease Number SF-079266 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator <b>BURLINGTON</b> RESOURCES Oil & Gas Company, LP		7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499  (505) 326-9700		8. Farm or Lease Name Vaughn 9. Well Number #13N
4. Location of Well Unit J(NWSE), 2560' FSL & 1900' FEL  Latitude 36° 27.4404 N Longitude 107° 27.1234 W		10. Field, Pool, Wildcat Blanco MV/Basin DK  11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 27, T26N, R6W  API # 30-039-30295
14. Distance in Miles from Nearest Town 46 mile/Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1900'		
16. Acres in Lease	17. Acres Assigned to Well MV/DK 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1308' Vaughn #19		
19. Proposed Depth 7465'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6636' GL	22. Approx. Date Work will Start RCVD AUG3'07 OIL CONS. DIV. DIST. 3	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	7-16-07 Date	

PERMIT NO.	APPROVAL DATE
APPROVED BY <u>[Signature]</u>	TITLE <u>Acting AFM</u> DATE <u>8/2/07</u>

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.

Sample Master Plan Type 4

Bond Numbers NMB-000015 and NMB-000089

Test BOPE 1000 psi minimum

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

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

NMOCD 8-06-07

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

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

DISTRICT II  
1801 West 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, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

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

2007 JUL 16 Form C-102  
Revised October 18, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039-30295	<sup>2</sup> Pool Code 71599/72319	<sup>3</sup> Pool Name BASIN DAKOTA/BLANCO MESAVERDE
<sup>4</sup> Property Code 7623	<sup>5</sup> Property Name VAUGHN	<sup>6</sup> Well Number 13N
<sup>7</sup> GRID No. 14538	<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	<sup>9</sup> Elevation 8636'

<sup>10</sup> 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	27	26-N	6-W		2660'	SOUTH	1900'	EAST	RIO ARriba

<sup>11</sup> 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
J									
<sup>12</sup> Dedicated Acres 320.00 E/2			<sup>13</sup> Joint or InHH		<sup>14</sup> Consolidation Code		<sup>15</sup> 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

16

<p>LAT: 35°27'44.04" N. LONG: 107°27'12.34" W. NAD 1927</p> <p>LAT: 36.457351° N LONG: 107.452691° W. NAD 1983</p>		SF-079266	
		27	
		1900'	
		2660'	
		N 0° 24' 18" W 2677.70'	
		S 89° 26' 54" W 2645.42'	

**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 undivided 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

5/30/07

*Kandis Roland*  
Signature  
Kandis Roland  
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.

5-28-07  
Date of Survey

Signature of Professional Surveyor.  
*Colin W. Russell*  
Certificate Number 15703

## State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30295

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil &amp; Gas Lease No.

Federal Lease # SF-079266

7. Lease Name or Unit Agreement Name

Vaughn

8. Well Number

#13N

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A  
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH  
PROPOSALS.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL &amp; GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter J : 2560' feet from the South line and 1900' feet from the East lineSection 27 Township 26N Rng 6W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6636'

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

&gt;100

Distance from nearest fresh water well

&gt;1000

Distance from nearest surface water

&gt;1000

Pit Liner Thickness:

N/A

mil

Below-Grade Tank:

Volume

bbls;

Construction Material

## 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill ☒

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit, vent/flare pit and pre-set mud pit will be unlined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids, and that portion will be unlined, as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

7-16-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

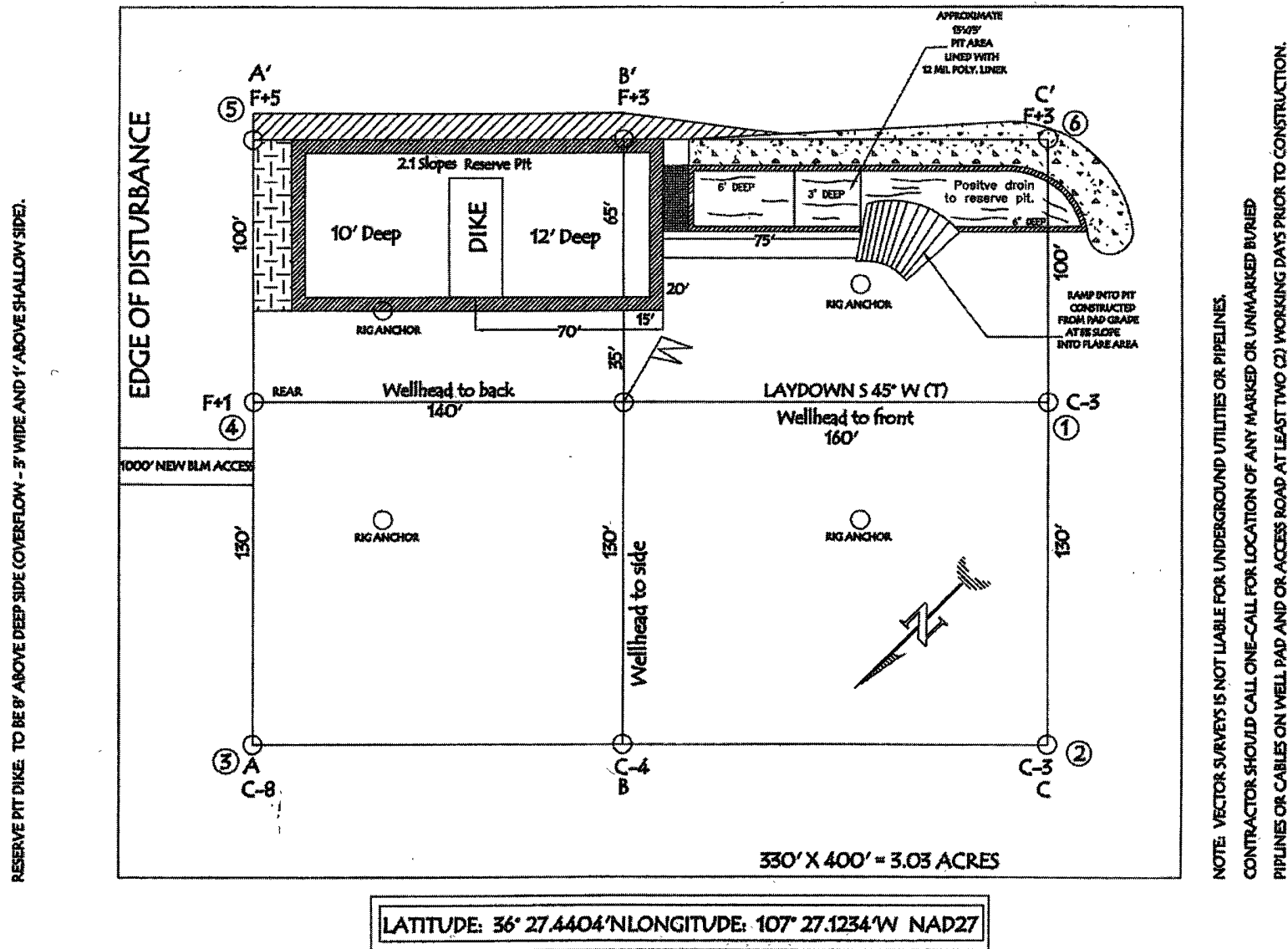
Deputy Oil & Gas Inspector,  
District #3

DATE

AUG 06 2007

Conditions of Approval (if any):

**BURLINGTON RESOURCES OIL & GAS COMPANY LP**  
**VAUGHN 13N, 2560' FSL & 1900' FEL**  
**SECTION 27, T-26- N, R-6-W, NMPM, RIO ARriba COUNTY, NM**  
**GROUND ELEVATION: 6636', DATE: MAY 9, 2007**



# BURLINGTON RESOURCES OIL & GAS COMPANY LP

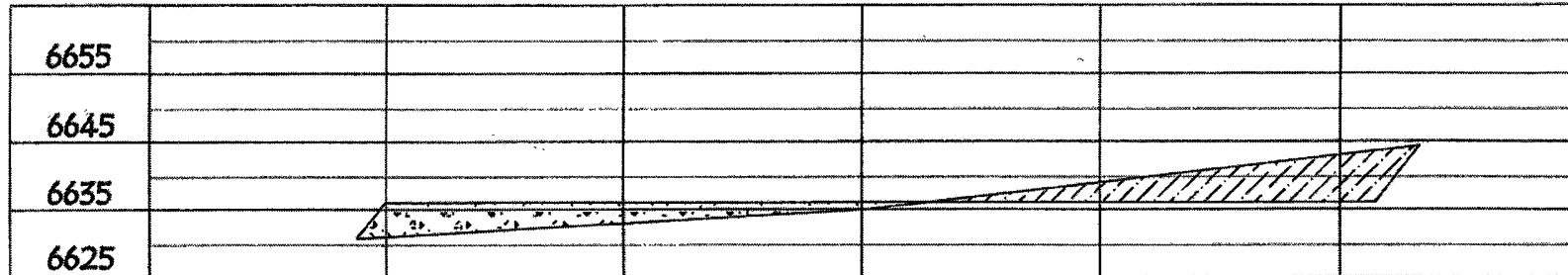
VAUGHN 13N, 2560' FSL & 1900' FEL

SECTION 27, T-26- N, R-6-W, NMPM, RIO ARriba COUNTY, NM

GROUND ELEVATION: 6636', DATE: MAY 9, 2007

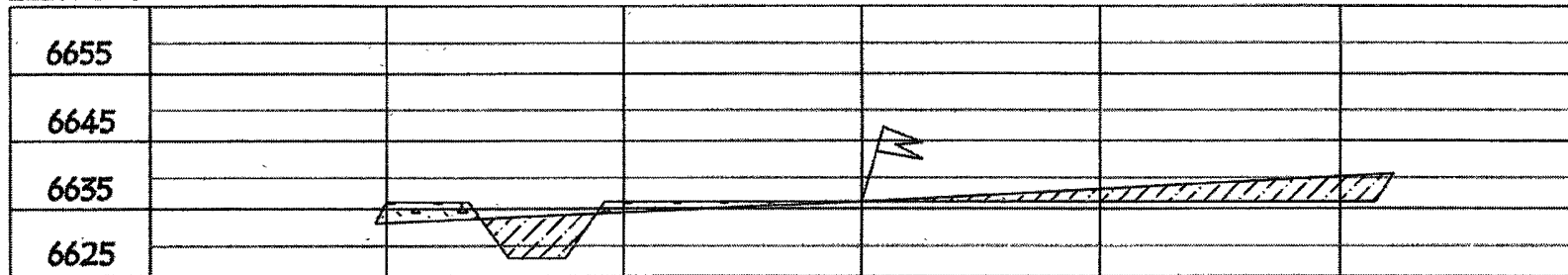
ELEV. A'-A

C/L



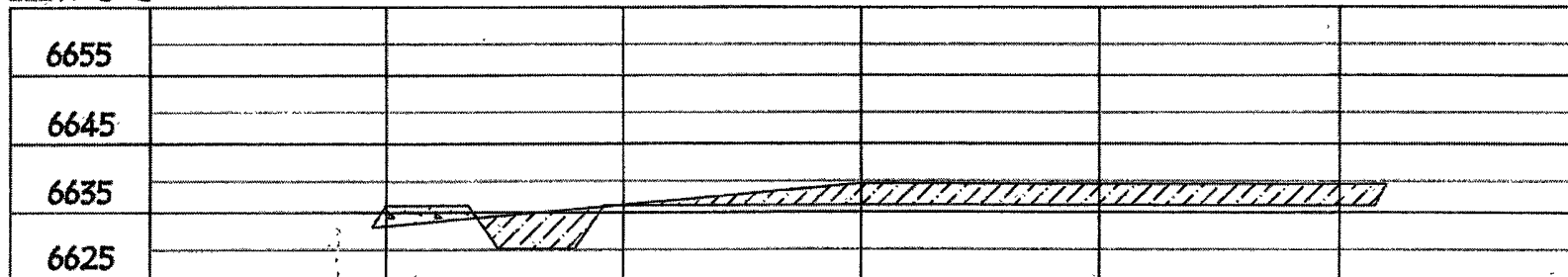
ELEV. B'-B

C/L



ELEV. C'-C

C/L



NOTE: VECTOR SURVEYS 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 AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 13N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7179				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA	API #:	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: 505-326-9826		Proj. Field Lead:		Phone:	
<b>Primary Objective (Zones):</b>							
<b>Zone</b>	<b>Zone Name</b>						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<b>Location: Surface</b> <b>Datum Code: NAD 27</b> <b>Straight Hole</b>							
Latitude: 36.457340		Longitude: -107.452057		X:	Y:	Section: 27	Range: 006W
Footage X: 1900 FEL		Footage Y: 2560 FSL		Elevation: 6636 (FT)		Township: 026N	
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6648      Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6328	<input type="checkbox"/>	12.25"		320' 8 5/8" 24 ppf, J-55, STC casing. Cement with 319 cuft. Circulate cement to surface.	
OJO ALAMO	2195	4453	<input type="checkbox"/>				
KIRTLAND	2418	4230	<input type="checkbox"/>				
FRUITLAND COAL	2720	3928	<input type="checkbox"/>			Possible Gas	
PICTURED CLIFFS	2918	3730	<input type="checkbox"/>				
LEWIS	3008	3640	<input type="checkbox"/>				
HUERFANITO BENTONITE	3325	3323	<input type="checkbox"/>				
CHACRA	3768	2880	<input type="checkbox"/>				
MASSIVE CLIFF HOUSE	4553	2095	<input type="checkbox"/>	650			
MENEFEE	4598	2050	<input type="checkbox"/>				
MASSIVE POINT LOOKOUT	5138	1510	<input type="checkbox"/>			GAS	
MANCOS	5488	1160	<input type="checkbox"/>				
UPPER GALLUP	6185	463	<input type="checkbox"/>				
GREENHORN	7040	-392	<input type="checkbox"/>				
GRANEROS	7096	-448	<input type="checkbox"/>				
TWO WELLS	7147	-499	<input type="checkbox"/>	2500		Gas	
UPPER CUBERO	7245	-597	<input type="checkbox"/>				
LOWER CUBERO	7278	-630	<input type="checkbox"/>				
OAK CANYON	7303	-655	<input type="checkbox"/>				
ENCINAL	7354	-706	<input type="checkbox"/>				
TOTAL DEPTH DK	7465	-817	<input type="checkbox"/>			7-7/8" Hole. 4-1/2", 11.6 ppf, N-80, LTC casing. Cement with 2224 cu ft. Circulate cement to surface. No open hole logs. Cased hole TDT with GR to surface.	
<b>Reference Wells:</b>							
Reference Type	Well Name			Comments			

# PROJECT PROPOSAL - New Drill / Sidetrack

VAUGHN 13N

DEVELOPMENT

<b>Logging Program:</b>			
Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT	<input type="checkbox"/> Sonic	<input type="checkbox"/> VSP	<input type="checkbox"/> TDT	<input checked="" type="checkbox"/> Other
GR/CBL							

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

Comments: Location/Tops/Logging - MVNM026N006W27SE2 DK 26N06W27SE2 Avoid O, no twin options, prefer I,P,J, topo may be a problem.

Zones - MVNM026N006W27SE2 DK 26N06W27SE2