

RECEIVED

OCT 16 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

5. Lease Serial No

SF-078385-A

6. If Indian, Allottee or Tribe Name

Farmington Field OFF
Bureau of Land Management
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well☒ Gas Well☐ Other

7. If Unit of CA/Agreement, Name and/or No

8. Well Name and No

Howell L 5

2. Name of Operator

Burlington Resources Oil & Gas Company LP

9. API Well No

30-045-28571

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No (include area code)

(505) 326-9700

10. Field and Pool or Exploratory Area

Navajo Chacra

4. Location of Well (Footage, Sec, T., R., M., or Survey Description)

Surface Unit G (SWNE), 2040' FNL & 2030' FEL, Sec. 34, T30N, R8W

11. Country or Parish, State

San Juan, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics.

Notify NMOC D 24 hrs
prior to beginning
operations

RCVD OCT 24 '12

OIL CONS. DIV.

DIST. 3

Set CR as close to liner top as possible

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

Dollie L. Busse

Title Staff Regulatory Technician

Signature

Date

10/16/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

OCT 22 2012

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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 representations as to any matter within its jurisdiction.

(Instruction on page 2)

NMOC D AV

ConocoPhillips

HOWELL L #5

Expense – P&A

Lat: 36° 46' 11.701" N

Long: 107° 39' 39.121" W

PROCEDURE

This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview. If there is pressure on the BH, contact engineer to review complete BH history and get a gas analysis done.
3. When an existing primary valve (i.e. casing valve) is to be used, the existing piping should be removed and replaced with the appropriate piping for the intended operation.
4. RU blow lines from casing valves and begin blowing down casing pressure. Unseat pump and kill well with water, as necessary, and at least pump tubing capacity of water down tubing.
5. ND wellhead and NU BOPE. Pressure and function test BOP. PU and remove tubing hanger.
6. TOOH with inner and outer tubing strings (per pertinent data sheet).

Tubing:	Yes	Size:	1.66"	Length:	4,529.3'
Tubing:	Yes	Size:	3-1/2"	Length:	4,535.5'

Round trip casing scraper to Top of Liner @ 3,713' or as deep as possible.

All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type II mixed at 15.6 ppg with a 1.18 cf/sk yield.

7. **Plug 1 (Chacra Open Hole, Intermediate Shoe, and Liner Top, 3663' - 3563, 53 Sacks Class B Cement):**
RIH and set 9 5/8" CR at 3,663'. Load tubing with water and circulate clean. Pressure test casing to 800 psi and tubing to 560 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. Mix 53 sx Class B cement and spot inside the casing above CR to isolate the Chacra open hole, Intermediate shoe and Liner top. PUH.
8. **Plug 2 (Pictured Cliffs Formation Top, 2903' - 2803', 56 Sacks Class B Cement):**
Mix 56 sx Class B cement and spot a balanced plug inside the casing to isolate the Pictured Cliffs formation top. PUH.
9. **Plug 3 (Fruitland Formation Top, ²⁶⁰⁰2500' - ²⁵⁰⁰2400', 56 Sacks Class B Cement):**
Mix 56 sx Class B cement and spot a balanced plug inside the casing to isolate the Fruitland formation top. PUH.
10. **Plug 4 (Ojo Alamo and Kirtland Formation Tops, 1968' - 1668', 129 Sacks Class B Cement):**
Mix 129 sx Class B cement and spot a balanced plug inside the casing to isolate the Ojo Alamo and Kirtland formation tops. PUH.

11. **Plug 5 (Surface Shoe and Nacimiento Formation Top, 0 - ~~409~~⁴¹⁸', 169 Sacks Class B Cement):** Connect the pump line to the bradenhead valve and attempt to pressure test the BH annulus to 300 PSI; note the volume to load. If the BH annulus holds pressure, then establish circulation out casing valve with water. Mix 169 sxs Class B cement and spot a balanced plug inside the casing from 375' to surface, circulate good cement out casing valve. TOH and LD tubing. Shut well in and WOC. If the BH annulus does not test, then perforate at the appropriate depth and attempt to circulate cement to surface filling the 9 5/8" casing and the BH annulus to surface. Shut well in and WOC.
12. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. Rig down, move off location, cut off anchors, and restore location per BLM stipulations.

Current Schematic

ConocoPhillips

Well Name: HOWELL L #5

API/OUWI 3004528571	Strace Legal Location NMPM,034-030N-008W	Field Name NAVAJO CHACRA	License No.	State/Province NEW MEXICO	Well Configuration Type	Edit
Ground Elevation (ft) 6,067.00	Original KB/RT Elevation (ft) 6,079.00	KB-Grout Distance (ft) 12.00	KB-Casing Flange Distance (ft) 6,079.00	KB-Tubing Hanger Distance (ft) 6,079.00		

Well Config: - Original Hole, 10/4/2012 1:56:05 PM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
12		TUBING, 3 1/2in, 9.30lbs/ft, J-55, 12 ftKB, 46 ftKB	
52		PUP JOINT, 3 1/2in, 9.30lbs/ft, J-55, 46 ftKB, 52 ftKB	
324			
326		TUBING, 2 1/16in, 3.25lbs/ft, J-55, 12 ftKB, 3,544 ftKB	
1,718	1,718	TUBING, 3 1/2in, 9.30lbs/ft, J-55, 52 ftKB, 3,658 ftKB	
2,450	2,450		
2,990	2,990	X-O 1 1/4" IJ X 2 1/16" IJ, 2 1/16in, 2.30lbs/ft, J-55, 3,544 ftKB, 3,545 ftKB	
3,544	3,470		
3,588	3,492	2 7/8" STL X 3 1/2" EUE CROSS-OVER, 3 1/2in, 9.30lbs/ft, L-55, 3,658 ftKB, 3,659 ftKB	
3,658	3,528		
3,714	3,554	TOL @ 3713'	
3,757	3,569	TUBING, 1.660in, 2.30lbs/ft, J-55, 3,545 ftKB, 4,527 ftKB	
3,797	3,582	STL FLUSH TBG, 2 7/8in, 6.40lbs/ft, L-80, 3,659 ftKB, 4,524 ftKB	
3,990	3,629	CROSS OVER - 3 1/2" STL X 2 7/8" STL, 3 1/2in, 9.30lbs/ft, J-55, 4,524 ftKB, 4,525 ftKB	
4,031	3,637	JET PUMP, 3 1/2in, 9.30lbs/ft, J-55, 4,525 ftKB, 4,527 ftKB	
4,120	3,647		
4,299	3,651	CROSS OVER-2 7/8" X 2 3/8", 2 7/8in, 6.40lbs/ft, J-55, 4,527 ftKB, 4,528 ftKB	
4,477	3,652	PUP JOINT, 1.660in, 2.30lbs/ft, J-55, 4,527 ftKB, 4,529 ftKB	
4,525	3,653	JET PUMP NOZZLE, 1.660in, 2.30lbs/ft, J-55, 4,529 ftKB, 4,529 ftKB	
4,527	3,653		
4,528	3,653	SCREENED PERF SUB, 2 3/8in, 4.70lbs/ft, J-55, 4,528 ftKB, 4,535 ftKB	
4,529	3,653		
4,535	3,653	BULLPLUG, 2 3/8in, 4.70lbs/ft, J-55, 4,535 ftKB, 4,535 ftKB	
4,783	3,652		
5,044	3,649		
5,222	3,646		
5,445	3,651		
5,669	3,656		
5,800	3,656		
6,022	3,654		
6,069	3,653	PBTD, 6,069 TD, 6,069, 9/5/1991	
		Surface Casing Cement, 12-325, 8/20/1991, Cmt'd w/362 sxs Class G Neat cmt (417 cu.ft.), circ 20 bbls cmt to surface. Surface, 13 3/8in, 12.515in, 12 ftKB, 325 ftKB Intermediate Casing Cement, 12-3,798, 8/28/1991, Cmt'd w/850 sxs Class G 65/35 Poz (1547 cu.ft.), tailed w/250 sxs Class G (288 cu.ft.). Circ 25 bbls cmt to surface. Intermediate1, 9 5/8in, 8.681in, 12 ftKB, 3,798 ftKB	NACIMIENTO, 359 OJO ALAMO, 1,718 KIRTLAND, 1,918 PICTURED CLIFFS, LEWIS, 2,990 HUERFANITO BENTONITE, 3,588 CHACRA, 3,990 Production1, 7in, 4.950in, 3,713 ftKB, 6,069 ftKB

Proposed Schematic

ConocoPhillips

Well Name: HOWELL L #5

API/UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
3004528571	NMPM_034-030N-008W	NAVAJO CHACRA		NEW MEXICO		
Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		
6,067.00	6,079.00	12.00	6,079.00	6,079.00		

Well Config: - Original Hole, 1/1/2020

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
12		Surface Casing Cement, 12-325, 8/20/1991, Cmt'd w/362 sxs Class G Neat cmt (417 cu.ft.), circ 20 bbls cmt to surface.	
52		Surface, 13 3/8in, 12.515in, 12 ftKB, 325 ftKB	
324			
326			
409	409	Plug #5, 12-409, 1/1/2020, Mix 169 sxs Class B cement and spot a balanced plug inside the casing from 409' to surface, circulate good cement out casing valve.	NACIMIENTO, 359
1,718	1,718	Plug #4, 1,668-1,968, 1/1/2020, Mix 129 sxs Class B cement and spot a balanced plug inside the casing to isolate the Ojo Alamo and Kirtland formation tops.	OJO ALAMO, 1,718 KIRTLAND, 1,918
1,968	1,968		
2,450	2,450	Plug #3, 2,400-2,500, 1/1/2020, Mix 56 sxs Class B cement and spot a balanced plug inside the casing to isolate the Fruitland formation top.	FRUITLAND, 2,450
2,803	2,803	Plug #2, 2,803-2,903, 1/1/2020, Mix 56 sxs Class B cement and spot a balanced plug inside the casing to isolate the Pictured Cliffs formation top.	PICTURED CLIFFS, 2,853
2,903	2,903		
3,123	3,123		LEWIS, 2,990
3,545	3,470		
3,588	3,492		HUERFANITO BENTONITE, 3,588
3,658	3,528		
3,664	3,530	Cement Retainer, 3,663-3,664	
3,714	3,554	TOL @ 3713'	
3,757	3,569	Plug #1, 3,563-3,663, 1/1/2020, Mix 53 sxs Class B cement and spot inside the casing above CR to isolate the Chacra open hole, Intermediate shoe and Liner top.	
3,797	3,582	Intermediate Casing Cement, 12-3,798, 8/28/1991, Cmt'd w/850 sxs Class G 65/35 Poz (1547 cu.ft.), tailed w/250 sxs Class G (288 cu.ft.). Circ 25 bbls cmt to surface.	
3,990	3,629	Intermediate 1, 9 5/8in, 8.681in, 12 ftKB, 3,798 ftKB	CHACRA, 3,990
4,031	3,637		
4,120	3,647		
4,299	3,651		
4,477	3,652		
4,525	3,653		
4,527	3,653		
4,528	3,653		
4,529	3,653		
4,535	3,653		
4,783	3,652		
5,044	3,649		
5,222	3,646		
5,445	3,651		
5,669	3,656		
5,800	3,656		
6,022	3,654		
6,069	3,653	PBTD, 6,069 TD, 6,069, 9/5/1991	Production 1, 7in, 4.950in, 3,713 ftKB, 6,069 ftKB

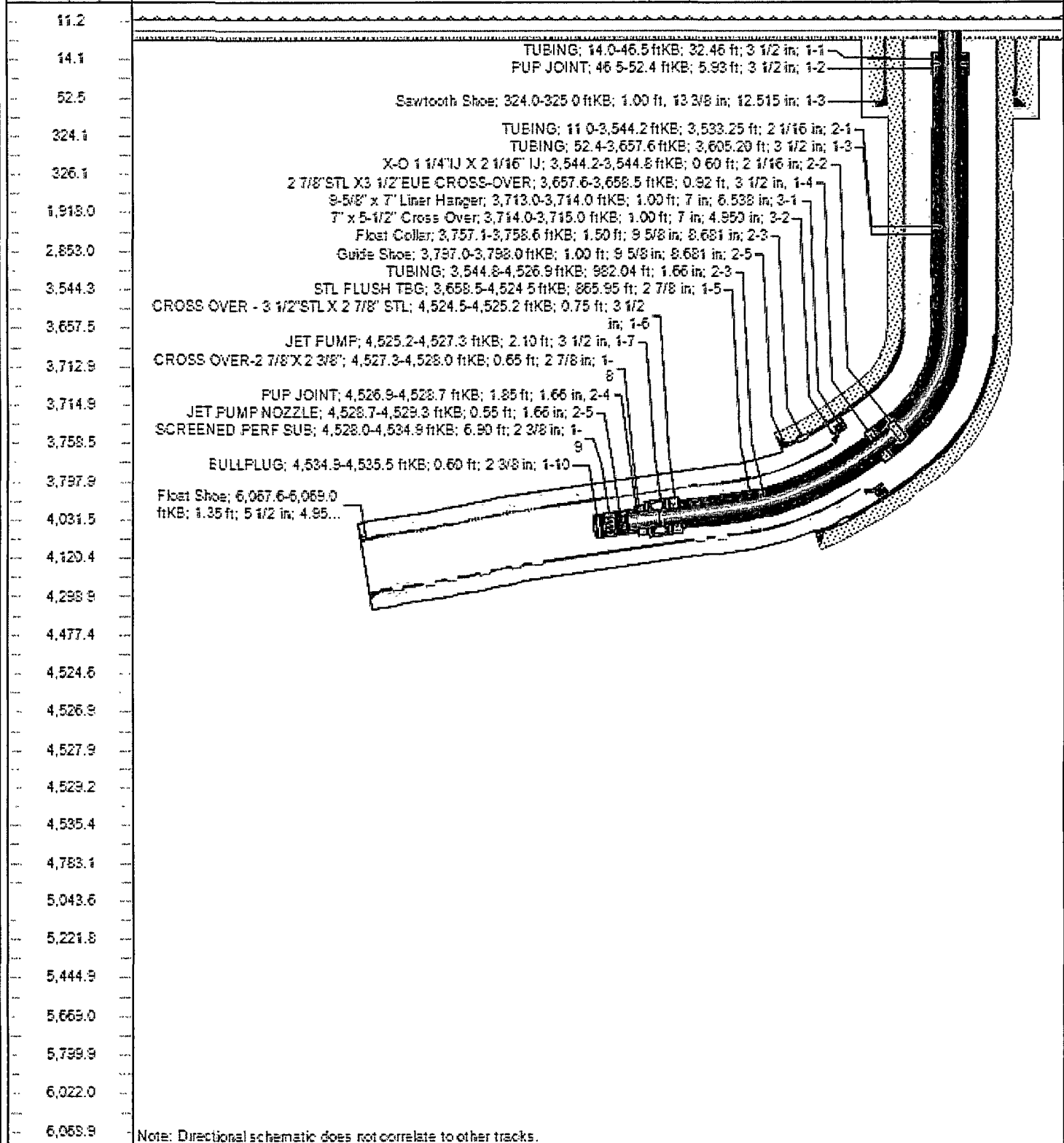
Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
FACILITIES	INSTALL PUMP	INSTALL PUMP	12/7/2005	12/12/2005

Original Hole, 9/11/2012 10:03:41 AM

MD (ftKB) Directional schematic (actual)



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FARMINGTON DISTRICT OFFICE
6251 COLLEGE BLVD.
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of
Intention to Abandon:

Re: Permanent Abandonment
Well: 5 Howell L

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a) Place the Fruitland plug from 2600' – 2500'.
 - b) Place the Nacimiento/Surface plug from 418' to surface.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.