Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCT 09 2012
Farmington Field Office
Bureau of Land Management

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

5 Lease Serial No **NMSF-078387**

6 If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

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.*

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

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8 Well Name and No **Howell D 4**

2. Name of Operator **Burlington Resources Oil & Gas Company LP**

9. API Well No. **30-045-10139**

3a Address **PO Box 4289, Farmington, NM 87499**

3b. Phone No (include area code) **(505) 326-9700**

10 Field and Pool or Exploratory Area **Blanco Mesaverde**

4 Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
Surface Unit G (SWNE), 1650' FNL & 1650' FEL, Sec. 33, T31N, 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
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☒ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 recompletion 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 schematic.

RCVD OCT 19 '12
OIL CONS. DIV.
DIST. 3

Submit CBL to agencies for review prior to cementing plug #1

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

Dollie L. Busse Title **Staff Regulatory Technician**

Signature Dollie L Busse Date 10/8/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Original Signed: Stephen Mason** Title Date **OCT 17 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)

NMOCD

ConocoPhillips
HOWELL D 4
Expense - P&A

Lat 36° 51' 24.84" N **Long 107° 40' 35.22" 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 the pump and kill well with water, as necessary, and at least pump tubing capacity of water down tubing. TOOH w/ rods and LD.

5. ND wellhead and NU BOPE. Function test and pressure test BOP. PU and remove tubing hanger.

6. TOOH with tubing (per pertinent data sheet).

Rods:	Yes	**Size:**	3/4"	**Set Depth:**	5414'
Tubing:	Yes	**Size:**	2-3/8"	**Set Depth:**	5454'
Packer:	No	**Size:**		**Depth:**	

Round trip casing scraper to the top perforation 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. PU 4-1/2" CR and set 5278'. Load casing and circulate well clean. Pressure test casing to 800#. If casing does not test, then spot or tag subsequent plugs as appropriate. Run CBL from 5278' to surface. Call Production Engineer to confirm cement plug depths.

8. Plug 1 (Mesaverde Perfs & Top, and Intermediate Casing Shoe. 5278-4806', 40 Sacks Class B Cement)
Pressure test tubing to 1000#. Mix 40 sxs of Class B cement and spot above the cement retainer to isolate the MV formation, and intermediate casing shoe. PUH.

3927 3827

9. Plug 2 (Chacra Top. ~~4347~~-4247', 12 Sacks Class B Cement)
Mix 12 sxs of Class B cement and spot plug to isolate the Chacra top. PUH.

3199 3099

10. Plug 3 (Pictured Cliffs Top. ~~3470~~-3070', 12 Sacks Class B Cement)
Mix 12 sxs of Class B cement and spot plug to isolate the Pictured Cliffs top. PUH.

2867 2767

11. Plug 4 (Fruitland Top. 2687-~~2587~~', 12 Sacks Class B Cement)
Mix 12 sxs of Class B cement and spot plug to isolate the Fruitland top. PUH.

2151 1869

12. Plug 5 (Kirtland and Ojo Alamo Tops. ~~2127~~-1907', ~~21~~ Sacks Class B Cement)
Mix ~~21~~ sxs of Class B cement and spot plug to isolate the Kirtland and Ojo Alamo tops. PUH.

676 576

13. Plug 6 (Nacimiento Top. ~~645~~-545', 12 Sacks Class B Cement)
Mix 12 sxs of Class B cement and spot plug to isolate the Nacimiento top. PUH.

14. Plug 7 (Surface Casing Shoe and Surface Plug, 314-0', 122 Sacks Class B Cement)
Perforate 3 HSC squeeze holes at 314'. Establish circulation out the bradenhead with water and circulate the bradenhead annulus clean. Mix 122 sxs of Class B cement and pump down the production casing to circulate good cement out the bradenhead. Top off cement in the casing annulus. Shut in well and WOC.

15. 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.

Current Schematic

ConocoPhillips

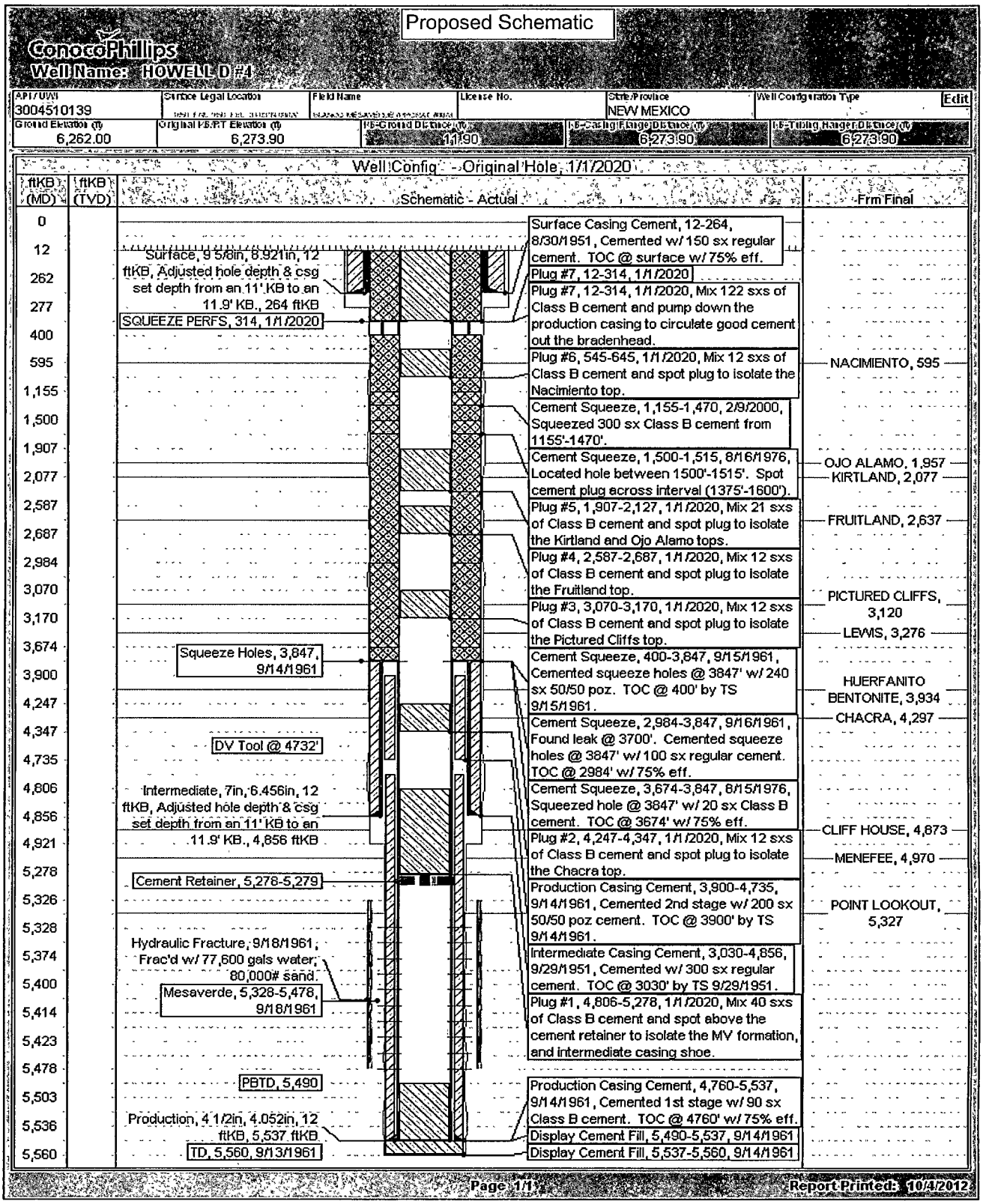
Well Name: HOWELL D #4

API / UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type
3004510139	1650' FNL 1650' FEL, S9-T29N-R09W	BLANCO MESAVERDE (PRORATED GAS)		NEW MEXICO	Edit

Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB-Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)
6,262.00	6,273.90	11.90	6,273.90	6,273.90

Well Config: - Original Hole, 10/8/2012 7:49:15 AM

ftKB (MD)	ftKB (TVD)	Schematic - Actual	Frm Final
0		Polished Rod, 22.0ft	
2		Surface Casing Cement, 12-264, 8/30/1951, Cemented w/ 150 sx regular cement. TOC @ surface w/ 75% eff.	
12		Surface, 9 5/8in, 8.921 in, 12 ftKB, Adjusted hole depth & csg set depth from an 11' KB to an 11.9' KB., 264 ftKB	
24		Guided Rod, 2,750.0ft	
262		Cement Squeeze, 1,155-1,470, 2/9/2000, Squeezed 300 sx Class B cement from 1155'-1470'.	
263			
277			
400			
595			NACIMIENTO, 595
1,155			
1,470		Cement Squeeze, 1,500-1,515, 8/16/1976, Located hole between 1500'-1515'. Spot cement plug across interval (1375'-1600').	
1,500			
1,515			
1,957		Cement Squeeze, 400-3,847, 8/15/1961, Cemented squeeze holes @ 3847' w/ 240 sx 50/50 poz. TOC @ 400' by TS 9/15/1961.	OJO ALAMO, 1,957
2,077			KIRTLAND, 2,077
2,637		Tubing, 2 3/8in, 4.70lbs/ft, J-55, 12 ftKB, 5,400 ftKB	FRUITLAND, 2,637
2,774			
2,984		Cement Squeeze, 2,984-3,847, 9/16/1961, Found leak @ 3700'. Cemented squeeze holes @ 3847' w/ 100 sx regular cement. TOC @ 2984' w/ 75% eff.	
3,030			
3,120			PICTURED CLIFFS, 3,120
3,276		Cement Squeeze, 3,674-3,847, 8/15/1976, Squeezed hole @ 3847' w/ 20 sx Class B cement. TOC @ 3674' w/ 75% eff.	LEWIS, 3,276
3,674			
3,847		Squeeze Holes, 3,847, 9/14/1961	
3,900			
3,934		Sucker Rod, 2,575.0ft	HUERFANITO BENTONITE, 3,934
4,297		Production Casing Cement, 3,900-4,735, 9/14/1961, Cemented 2nd stage w/ 200 sx 50/50 poz cement. TOC @ 3900' by TS 9/14/1961.	CHACRA, 4,297
4,732		DV Tool @ 4732'	
4,735			
4,760			
4,853		Intermediate Casing Cement, 3,030-4,856, 9/29/1951, Cemented w/ 300 sx regular cement. TOC @ 3030' by TS 9/29/1951.	
4,856			
4,873			CLIFF HOUSE, 4,873
4,921		Intermediate, 7in, 6.456in, 12 ftKB, Adjusted hole depth & csg set depth from an 11' KB to an 11.9' KB., 4,856 ftKB	
4,970			MENEFEE, 4,970
5,326			
5,327		Seat Nipple, 2 3/8in, 4.70lbs/ft, J-55, 5,400 ftKB, 5,401 ftKB	POINT LOOKOUT, 5,327
5,328			
5,349		Hydraulic Fracture, 9/18/1961, Frac'd w/ 77,600 gals water; 80,000# sand.	
5,374		Guided Rod, 25.0ft	
5,399		Sinker Bar, 25.0ft	
5,400		Pup Joint, 2 3/8in, 4.70lbs/ft, J-55, 5,401 ftKB, 5,417 ftKB	Lift Sub, 1.0ft
5,401		Mesaverde, 5,328-5,478, 9/18/1961	
5,414		Gas separator, 2 3/8in, 4.70lbs/ft, J-55, 5,417 ftKB, 5,423 ftKB	RHAC-Z Insert Pump (2"x1-1/4"x10'x14'), 14.0ft
5,417			
5,423		Tubing, 2 3/8in, 4.70lbs/ft, J-55, 5,423 ftKB, 5,454 ftKB	
5,454			
5,478			Production Casing Cement, 4,760-5,537, 9/14/1961, Cemented 1st stage w/ 90 sx Class B cement. TOC @ 4760' w/ 75% eff.
5,490		PBTD, 5,490	
5,503			
5,504			Display Cement Fill, 5,490-5,537, 9/14/1961
5,536			Production, 4 1/2in, 4.052in, 12 ftKB, 5,537 ftKB
5,537			
5,560		TD, 5,560, 9/13/1961	Display Cement Fill, 5,537-5,560, 9/14/1961


Proposed Schematic
ConocoPhillips
Well Name: HOWELL D #4
API/UWI 3004510139
Surface Legal Location
Field Name
License No.
State/Province NEW MEXICO
Well Configuration Type
Edit
Ground Elevation (ft) 6,262.00
Original RB/RT Elevation (ft) 6,273.90
RB-Ground Distance (ft) 11.90
RB-Casing Flange Distance (ft) 6,273.90
RB-Tubing Hanger Distance (ft) 6,273.90
Well Config: - Original Hole, 1/1/2020
ftKB (MD)
ftKB (TVD)
Schematic - Actual
Frm Final
0
12
262
277
400
595
1,155
1,500
1,907
2,077
2,587
2,687
2,984
3,070
3,170
3,674
3,900
4,247
4,347
4,735
4,806
4,856
4,921
5,278
5,326
5,328
5,374
5,400
5,414
5,423
5,478
5,503
5,536
5,560
Surface, 9 5/8in, 8.921in, 12 ftKB, Adjusted hole depth & csg set depth from an 11' KB to an 11.9' KB., 264 ftKB
SQUEEZE PERFS, 314, 1/1/2020
Squeeze Holes, 3,847, 9/14/1961
DV Tool @ 4732'
Intermediate, 7in, 6.456in, 12 ftKB, Adjusted hole depth & csg set depth from an 11' KB to an 11.9' KB., 4,856 ftKB
Cement Retainer, 5,278-5,279
Hydraulic Fracture, 9/18/1961, Frac'd w/ 77,600 gals water, 80,000# sand.
Mesaverde, 5,328-5,478, 9/18/1961
PBTD, 5,490
Production, 4 1/2in, 4.052in, 12 ftKB, 5,537 ftKB
TD, 5,560, 9/13/1961
Surface Casing Cement, 12-264, 8/30/1951, Cemented w/ 150 sx regular cement. TOC @ surface w/ 75% eff.
Plug #7, 12-314, 1/1/2020
Plug #7, 12-314, 1/1/2020, Mix 122 sxs of Class B cement and pump down the production casing to circulate good cement out the bradenhead.
Plug #6, 545-645, 1/1/2020, Mix 12 sxs of Class B cement and spot plug to isolate the Nacimiento top.
Cement Squeeze, 1,155-1,470, 2/9/2000, Squeezed 300 sx Class B cement from 1155'-1470'.
Cement Squeeze, 1,500-1,515, 8/16/1976, Located hole between 1500'-1515'. Spot cement plug across interval (1375'-1600').
Plug #5, 1,907-2,127, 1/1/2020, Mix 21 sxs of Class B cement and spot plug to isolate the Kirtland and Ojo Alamo tops.
Plug #4, 2,587-2,687, 1/1/2020, Mix 12 sxs of Class B cement and spot plug to isolate the Fruitland top.
Plug #3, 3,070-3,170, 1/1/2020, Mix 12 sxs of Class B cement and spot plug to isolate the Pictured Cliffs top.
Cement Squeeze, 400-3,847, 9/15/1961, Cemented squeeze holes @ 3847' w/ 240 sx 50/50 poz. TOC @ 400' by TS 9/15/1961.
Cement Squeeze, 2,984-3,847, 9/16/1961, Found leak @ 3700'. Cemented squeeze holes @ 3847' w/ 100 sx regular cement. TOC @ 2984' w/ 75% eff.
Cement Squeeze, 3,674-3,847, 8/15/1976, Squeezed hole @ 3847' w/ 20 sx Class B cement. TOC @ 3674' w/ 75% eff.
Plug #2, 4,247-4,347, 1/1/2020, Mix 12 sxs of Class B cement and spot plug to isolate the Chacra top.
Production Casing Cement, 3,900-4,735, 9/14/1961, Cemented 2nd stage w/ 200 sx 50/50 poz cement. TOC @ 3900' by TS 9/14/1961.
Intermediate Casing Cement, 3,030-4,856, 9/29/1951, Cemented w/ 300 sx regular cement. TOC @ 3030' by TS 9/29/1951.
Plug #1, 4,806-5,278, 1/1/2020, Mix 40 sxs of Class B cement and spot above the cement retainer to isolate the MV formation, and intermediate casing shoe.
Production Casing Cement, 4,760-5,537, 9/14/1961, Cemented 1st stage w/ 90 sx Class B cement. TOC @ 4760' w/ 75% eff.
Display Cement Fill, 5,490-5,537, 9/14/1961
Display Cement Fill, 5,537-5,560, 9/14/1961
NACIMIENTO, 595
OJO ALAMO, 1,957
KIRTLAND, 2,077
FRUITLAND, 2,637
PICTURED CLIFFS, 3,120
LEWIS, 3,276
HUERFANITO BENTONITE, 3,934
CHACRA, 4,297
CLIFF HOUSE, 4,873
MENEFEE, 4,970
POINT LOOKOUT, 5,327
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Report Printed: 10/4/2012

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: 4 Howell D

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 Chacra plug from 3927' – 3827'.

b) Place the Pictured Cliffs plug from 3194' – 3094'.

c) Place the Fruitland plug from 2867' – 2767'.

d) Place the Kirtland/Ojo Alamo plug from 2151' – 1869'.

e) Place the Nacimiento plug from 676' – 576'.

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.