

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOCCASION  
JUN 29 2015FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

## 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 reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. RESOLUTE BTO FEDERAL 1H
2. Name of Operator YATES PETROLEUM CORPORATION Contact: LAURA WATTS Mail: laura@yatespetroleum.com	9. API Well No. 30-025-42214
3a. Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210	10. Field and Pool, or Exploratory WILDCAT; BONE SPRING
3b. Phone No. (include area code) Ph: 575-748-4272 Fx: 575-748-4585	11. County or Parish, and State LEA COUNTY, NM
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T25S R32E NENE 50FNL 440FEL	

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize <input type="checkbox"/> Deepen <input type="checkbox"/> Production (Start/Resume) <input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Reclamation <input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair <input type="checkbox"/> New Construction <input type="checkbox"/> Recomplete <input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans <input type="checkbox"/> Plug and Abandon <input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection <input type="checkbox"/> Plug Back <input type="checkbox"/> 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The TOC was found to be at 5,442 ft by CBL. Since the intermediate casing shoe is at 4,902 ft and we did not tie back our cement to 500 ft above the casing shoe, Yates Petroleum Corporation plans to fix this as follows:

After we frac the well, drill out our frac plugs and flow back the well until it dies, we will attempt a bradenhead squeeze and run another CBL to verify. If the bradenhead squeeze is unsuccessful we will perforate just above our TOC and squeeze cement to tie back into our intermediate casing.

Per Attached  
Procedure

After CMT Squeeze Job - Submit Electronic Copy of CBL to BLM

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #302649 verified by the BLM Well Information System  
For YATES PETROLEUM CORPORATION, sent to the Hobbs  
Committed to AFMSS for processing by ED FERNANDEZ on 06/11/2015 ()

Name (Printed/Typed) LAURA WATTS	Title REG REPORTING TECHNICIAN
Signature (Electronic Submission)	Date 05/22/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Ed Fernandez	Title
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 any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

JUL 01 2015



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

Resolute BTO Federal #1H  
50' FNL & 440' FEL  
Sec. 12-25S-32E  
Lea County, New Mexico  
API # 30-025-42214

Sent 6/11/15

Bradenhead Squeeze Procedure  
AFE005714

Executive Summary:

Procedure to perform a bradenhead squeeze down the 9 5/8" x 5 1/2" annulus.

TD: 15,455' GR: 3,522'  
PBD: 15,451' KB: 3,343.5'

Surface Casing: 13 3/8" 48# J-55 at 1,122'. Cemented with 575 sx. Cement circulated.  
Intermediate Casing: 9 5/8" 36# and 40# J-55 and HCK-55 at 4,902'. Cemented with 1,265 sx. Cement circulated.  
Production Casing: 5 1/2" 17# P-110 at 15,455'. Cemented with 1,810 sx. TOC at 5,442' by CBL.

Bradenhead Squeeze Procedure:

1. MIRU pump truck to determine injection rate down 9 5/8" x 5 1/2" annulus. RDMO pump truck.
2. MIRU WSU and all necessary safety equipment. ND frac stack and NU BOP.
3. Pick up 2 3/8" tbg and TIH with RBP. Set the RBP at 5,600' and load the hole with 3% KCL water. TOH.
4. MIRU cementing equipment to pump bradenhead squeeze down the 9 5/8" x 5 1/2" annulus. The capacity of the annulus is .2691 ft<sup>3</sup>/ft, so the minimum cement volume needed is 4,902' \* .2691 = 1,319 ft<sup>3</sup> ( $\approx \pm 1,350$  ft<sup>3</sup>).
5. Pump the cement slurry down the 9 5/8" x 5 1/2" annulus while holding 2,000 psi on the 5 1/2" casing. Do not displace the cement. Shut the annulus in and release the pressure on the 5 1/2" casing. WOC for a minimum of 24 hours.
6. MIRU WL to run a CBL with 1,500 psi on the casing from the RBP to surface.
7. TIH with retrieving tool, latch on and release RBP and TOH.
8. TIH with production equipment, RDMO and turn the well over to the Production Dept.

Submit Electronic  
copy of CBL  
To BLM  
ASAP

Area Engineer:

*Brice A. Letcher*  
Brice A. Letcher

Date: 6/10/2015

*[Signature]*  
6/10/15

WELL NAME: Resolute BTO Federal #1H FIELD

LOCATION: Unit A, 50' FNL and 440' FEL (Surf) Sec 12-25S-32E Lea County

GL: 3,522' ZERO: KB: 3,543.5'

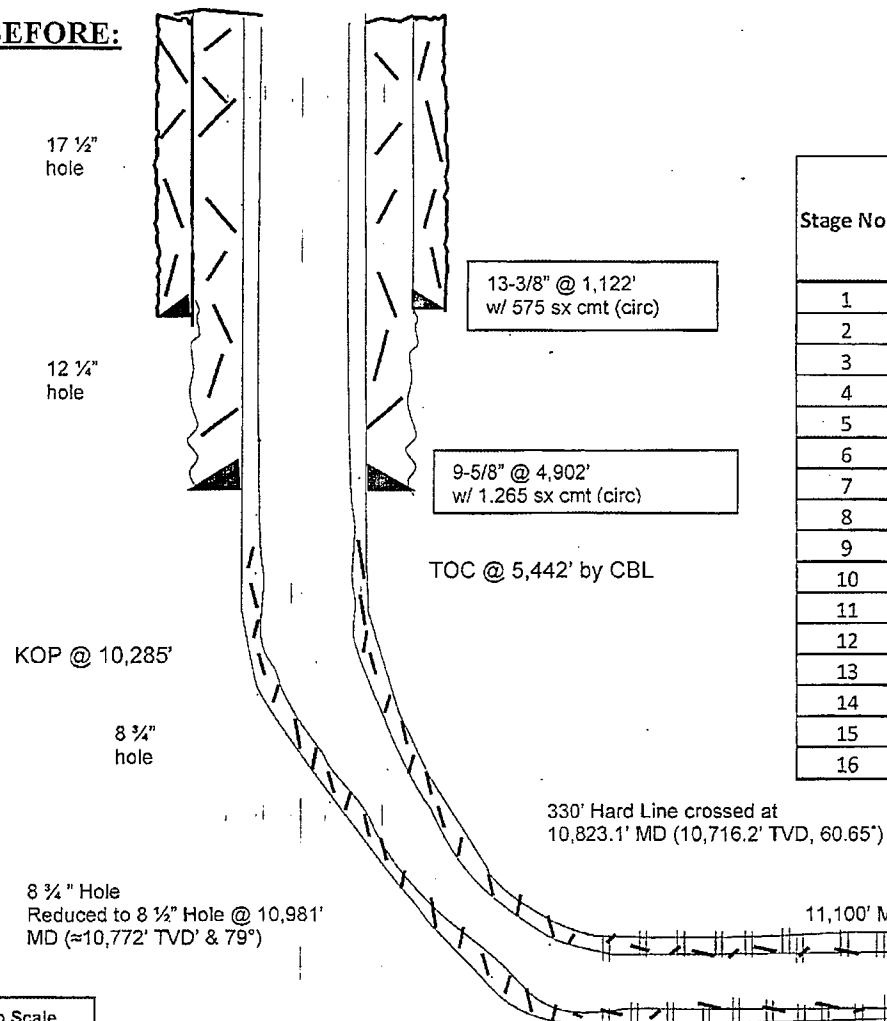
SPUD DATE: 3/23/15 COMPLETION DATE:

COMMENTS: API No.: 30-025-42214.

### CASING PROGRAM

13-3/8" 48# J-55 ST&C	1,122'
9-5/8" 36# & 40# J-55, 40# HCK-55, LT&C	4,902'
5 1/2" 17# P110 buttress	15,455'

### BEFORE:



Stage No.	Plug Set Depth (ft)	Perforations
1	-	Toe Sleeve at 15,440'
2	15,400	15,350' (10); 15,253' (14); 15,156' (12)
3	15,109	15,059' (10); 14,962' (14); 14,865' (12)
4	14,818	14,768' (10); 14,671' (14); 14,574' (12)
5	14,527	14,477' (10); 14,380' (14); 14,283' (12)
6	14,236	14,186' (10); 14,089' (14); 13,992' (12)
7	13,945	13,895' (10); 13,798' (14); 13,701' (12)
8	13,654	13,604' (10); 13,507' (14); 13,410' (12)
9	13,363	13,313' (10); 13,216' (14); 13,119' (12)
10	13,072	13,022' (10); 12,925' (14); 12,828' (12)
11	12,781	12,731' (10); 12,634' (14); 12,537' (12)
12	12,490	12,440' (10); 12,343' (14); 12,246' (12)
13	12,199	12,149' (10); 12,052' (14); 11,955' (12)
14	11,908	11,858' (10); 11,761' (14); 11,664' (12)
15	11,617	11,567' (10); 11,470' (14); 11,373' (12)
16	11,326	11,276' (10); 11,179' (14); 11,082' (12)

Before

5-1/2" @ 15,455' MD, (10,731' TVD, 90.9°)  
w/ 1,810 sx cmt (ETOC @ 4,400')  
TD: 15,455', FC @ 15,451',  
Toe sleeve @ 15,440' (top)  
Did not cross Hard Line at end of lateral.

Note: All frac plugs have been drilled out.

Not to Scale  
6/10/15  
BAL

WELL NAME: Resolute BTO Federal #1H FIELD

LOCATION: Unit A. 50' FNL and 440' FEL (Surf) Sec 12-25S-32E Lea County

GL: 3,522' ZERO: KB: 3,543.5'

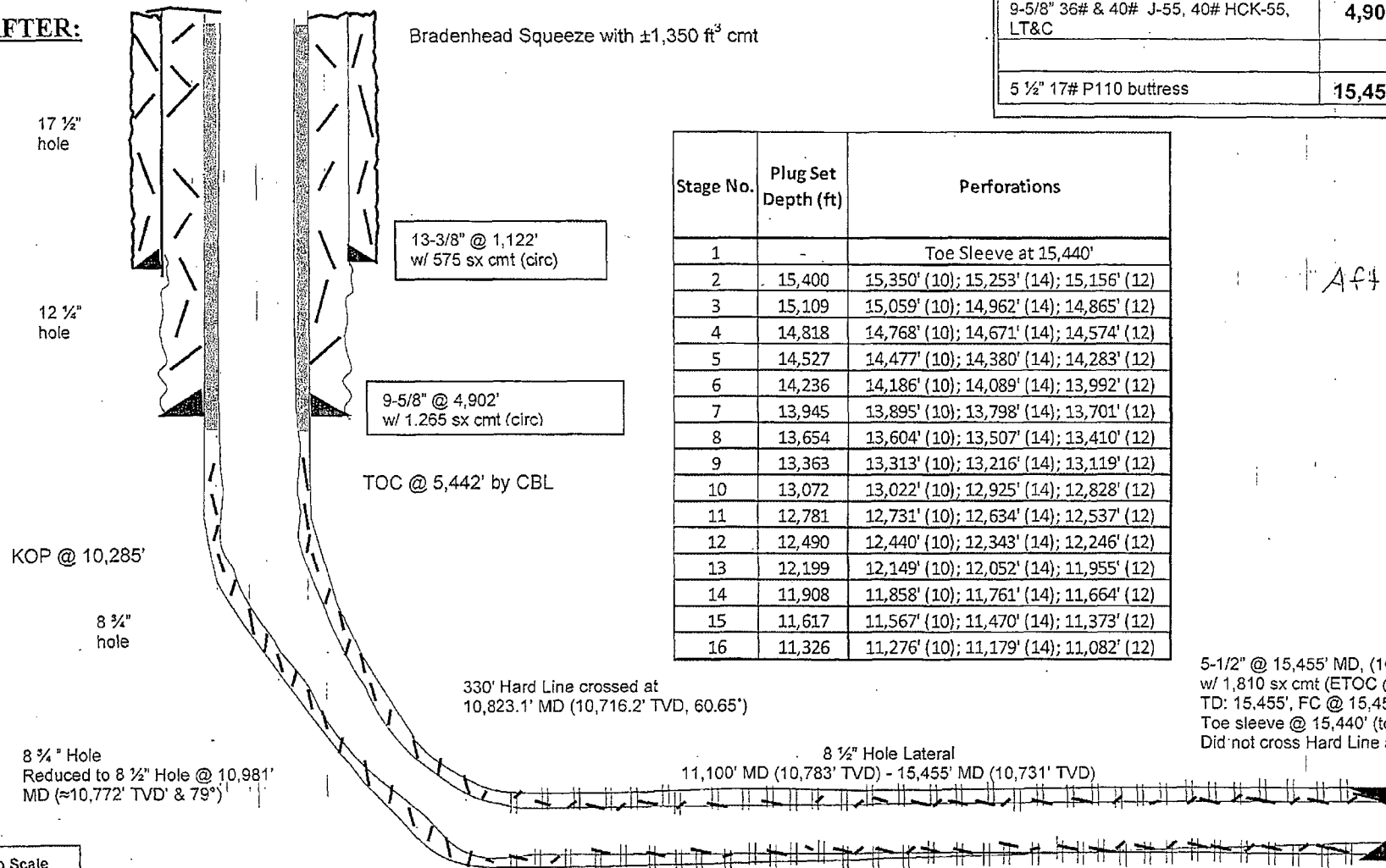
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### CASING PROGRAM

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**AFTER:**

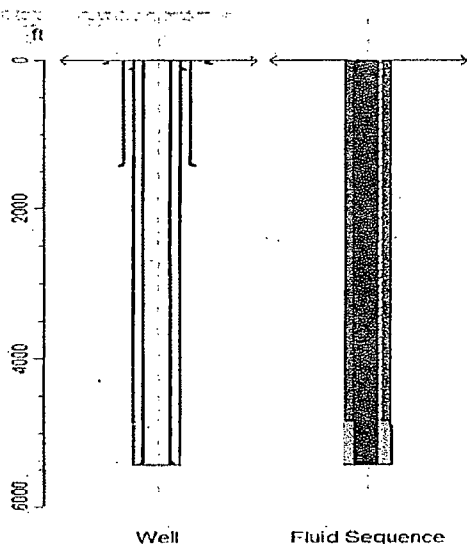


Not to Scale  
6/10/15  
BAL

Note: All frac plugs have been drilled out.



## WELL DATA



### IMPORTANT:

The well data shown on this page is based on information available when this treatment program was prepared. This data must be confirmed on location with the wellsite supervisor prior to the treatment. Any changes in the well data need to be reviewed for their impact on the treatment design.

Fluid Placement			
Fluid Name	Volume bbl	Density lb/gal	Top of Fluid ft
Fresh Water	40.0	8.34	0.0
12.0ppg Reg. PVL Tail	230.0	12.00	0.0
12.0ppg PVL Lead w/FLAC	35.5	12.00	4843.8
Treated Water	126.5	8.32	0.0

Total Liquid Volume : 432.0 bbl

Well Data	
Job Type :	Squeeze Cementing
Total Depth (Measured) :	5442.0 ft
True Vertical Depth (TVD) :	5442.0 ft
BHST (Tubular Bottom Static Temperature) :	124 degF
BHCT (Tubular Bottom Circulating Temperature) :	111 degF

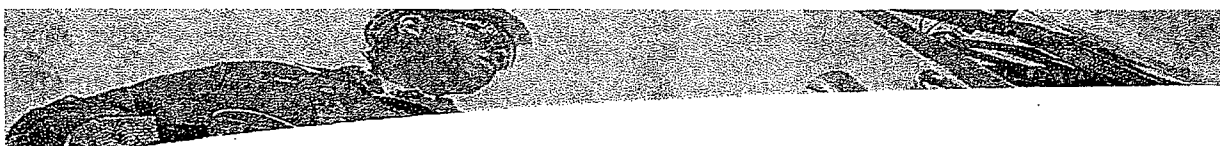
Open Hole		
Mean Diameter without Excess	Bottom Depth	Annular Excess
8.750 in	5442.0 ft	35.0 %

Previous Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
9 5/8 in	40.0 lb/ft	J-55	LTC	0.43 ft <sup>3</sup> /ft	126.4 ft
9 5/8 in	36.0 lb/ft	J-55	LTC	0.43 ft <sup>3</sup> /ft	3106.1 ft
9 5/8 in	40.0 lb/ft	J-55	LTC	0.43 ft <sup>3</sup> /ft	4133.5 ft
9 5/8 in	40.0 lb/ft	HCK-55	LTC	0.43 ft <sup>3</sup> /ft	4902.0 ft

Casing					
OD	Weight	Grade	Thread	Inner Capacity	Bottom Depth
5 1/2 in	17.0 lb/ft	P-110	BTC	0.13 ft <sup>3</sup> /ft	5442.0 ft

Annular Capacity (without Excess) : Casing Bottom / Open Hole : 0.25 ft<sup>3</sup>/ft

Annular Capacity (without Excess) : Previous Casing Bottom / Casing : 0.26 ft<sup>3</sup>/ft



## FLUID SYSTEMS

Fresh Water			
System	Water		
Density	8.34 lb/gal		
Total Volume	40.0 bbl		
Additives	Code	Description	Concentration

12.0ppg Reg. PVL Tail (650 sacks, 75 lb per sack of Blend)			
System	Conventional		
Density	12.00 lb/gal		
Yield	1.99 ft <sup>3</sup> /sk		
Mix Water	11.076 gal/sk		
Mix Fluid	11.076 gal/sk		
Total Volume	230.0 bbl		
Expected Thickening Time	70 Bc at 03:51 hr:min		
Additives	Code	Description	Concentration
	D044	NaCl	5.0 % BWOW
	D049	Cement	75 lb/sk WBWOB
	D020	Extender	4.0 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D201	Retarder	0.1 % BWOB
	D065	Dispersant	0.3 % BWOB
	D208	Viscosifier	0.1 % BWOB
	D130	Lost Circulation Control Agent	0 lb/sk WBWOB
	D042	Extender	5 lb/sk WBWOB

12.0ppg PVL Lead w/FLAC (100 sacks, 75 lb per sack of Blend)			
System	Conventional		
Density	12.00 lb/gal		
Yield	2.00 ft <sup>3</sup> /sk		
Mix Water	11.069 gal/sk		
Mix Fluid	11.069 gal/sk		
Total Volume	35.5 bbl		
Expected Thickening Time	70 Bc at 05:01 hr:min		
Expected ISO/API Fluid Loss	53 mL in 16.0 min		
Additives	Code	Description	Concentration
	D044	NaCl	5.0 % BWOW
	D049	Cement	75 lb/sk WBWOB
	D020	Extender	4.0 % BWOB
	D046	Anti Foam	0.2 % BWOB
	D201	Retarder	0.1 % BWOB
	D065	Dispersant	0.3 % BWOB
	D208	Viscosifier	0.1 % BWOB
	D130	Lost Circulation Control Agent	0 lb/sk WBWOB
	D042	Extender	5 lb/sk WBWOB
	D167	Fluid loss	0.4 % BWOB

Some of the chemicals specified in this program may have toxic properties. All personnel should be familiar with the inherent dangers and appropriate safeguards to prevent accidental injury. Use of the chemicals may be governed by certain laws and regulations and should only be used in accordance with such. Please refer to the MSDS sheets for the recommended safety precautions and required minimum personal protective equipment.



## PROCEDURES

NOTE: Well MUST BE circulated 2 times bottoms up with casing on bottom prior to job execution

1. Rig up Schlumberger following WS Standard 5
2. Confirm well data and calculations with company representative on location (slurry and mix water volumes, # sacks, displacement volume and what fluid).
3. Confirm mud properties with company representative or mud company representative. Schlumberger supervisor to document mud yield point, viscosity, and density in cement treatment report
4. Verify rigs circulating pressure prior to start of cementing job. If Circulating pressures are greater than 20% of CemCADE simulation, initiate Management of Change.
5. Conduct a safety and procedure meeting with all personnel present before treatment begins. Go over contingency and recommendations plans.
6. Pressure test treating lines to 1000 psi above the final job pressure as a minimum
7. Client to close rams on surface to perform Injectivity Test
8. Pump 20.0bbls Fresh Water and Perform Injectivity & determine Max Rate & Pressure
9. Mix and pump 35.5 bbls of 100sxs, 12.0 ppg PVL w/FLAC (Fluid Loss Additive Control) Lead @ 1.5 to 2.0 bpm rate. If slurry density varies more than 0.2 ppg from the design density, then stop pumping downhole and recirculate slurry in mix tub until density is within range.
10. Mix and pump 230.0 bbls of 650sxs, 12.0 ppg Regular PVL Tail and 1.5 to 2.0 bpm rate, squeezing until Pmax provided by client is reached. If slurry density varies more than 0.2 ppg from the design density, then stop pumping downhole and recirculate slurry in mix tub until density is within range. Note: Do not exceed maximum allowable squeeze pressure - Pmax
11. Shut-in Well with 500psi on Surface.
12. Shut-down and Wash-up Schlumberger line and pump to waste pit.

Note: Squeeze Job is through Bul Heading cement slurry at surface with BOP closed, and Injectivity MUST BE performed prior to squeezing to determine maximum allowable rate and pressure. This has to be approved by client prior to job execution.