

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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.*5. Lease Serial No.  
NMNM25953

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
KYLE 34 FEDERAL COM 5H9. API Well No.  
30-015-43295-00-X110. Field and Pool or Exploratory Area  
WILLOW LAKE-BONE SPRING, SE11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
BC OPERATING INCContact: SARAH PRESLEY  
E-Mail: SPRESLEY@BCOPERATING.COM

3a. Address

MIDLAND, TX 79710

3b. Phone No. (include area code)  
Ph: 432-684-9696

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

Sec 34 T24S R28E SESE 225FSL 990FEL  
32.167025 N Lat, 104.069194 W Lon**12. CHECK THE 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"/> Hydraulic Fracturing	<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	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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.

BC OPERATING, INC. RESPECTFULLY REQUESTS TO:

1. CHANGE 7" CASING & CEMENT\*
2. CHANGE 4.5" CASING & CEMENT\*
3. UPDATE MUD PROGRAM\*
4. TEST MULTIBOWL PROCEDURE ACCORRDING TO ONSHORE ORDER 2\*

\*SEE WORK INFO ATTACHMENT

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUL 03 2017

**SEE ATTACHED FOR RECEIVED  
CONDITIONS OF APPROVAL**

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

Electronic Submission #379107 verified by the BLM Well Information System

For BC OPERATING INC, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 06/19/2017 (17DLM2069SE)

Name (Printed/Typed) SARAH PRESLEY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/19/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE****APPROVED****Teungku Muchlis Krueng****PETROLEUM ENGINEER**

Approved By (BLM Approver Not Specified)

Title

JUN 20 2017

Date 06/20/2017

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 Carlsbad BUREAU OF LAND MANAGEMENT

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.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

7-3-17 RUP

KYLE 34 FEDERAL COM #5H  
30-015-43295  
EDDY COUNTY, NM

#### WORK INFO

(1) 7" Casing will be set and cement from 9600' MD, 9550' TVD – Casing will be set at roughly the top of the Wolfcamp and called via gamma.

- Reference Sheets (3 attachments from Halliburton) and volumes (1 attachment from Halliburton) attached for cementing changes
  - Single stage job with lighter blends in shallower hole section to achieve cement top. A Hz producing Delaware well is within 300' of our Delaware penetration point causing depletion concerns
  - Tail @ 14.5ppg, 170sx, 30% excess in open hole
  - Lead 2 @ 11ppg, 230sx, 30% excess in open hole
  - Lead 1 @ 9.5ppg, 290sx, 50% excess in open hole

(2) 4-1/2" Cement – for volume reference, attachment from Propetro.

- Volumes attached for cement in the cement proposal include a high strength single slurry. The depths align relatively closely with the shortened lateral from the previously filed BC sundry.
  - Single slurry at 14.8ppg, 133bbls mixed at 1.87cuft/sx.

(3) Updated Mud Program: this sundry requests to use OBM after drilling out of the 7" casing string at 9600' and drilling the Wolfcamp target with the mud parameters below

Target (ft)	Density (lb/gal)	Plastic Viscosity (cp)	Yield Point (lb/100 f	WPS (ppm)	HTHP (mL/30	ES (V)	Excess Time ppb	OWR	LGS%
10,000 – 14,321	11.5 – 12.2	18 - 28	12 - 16	220K – 250K	<10	250 - 400	1 - 2	65/35 – 70/30	<10%

- Displace to 11.5 ppg INTEGRADE OBM.
- Drill 6.125" production interval
- Monitor volumes, gas, and cuttings at shakers for formation indications
- Maintain mud properties as per program
- Set 4.5" Production Liner

(4) Multibowl procedure is attached for reference and will be included in the electronic filing. We will test in accordance with COAs and BLM onshore order 2 if seals are broken.

## JOB BID

**P.O. BOX 10688- MIDLAND TX, 97702- 432-688-0012**

## WELL INFORMATION

[illegible]

**\*\*\*ANY QUESTIONS OR CONCERNS PLEASE CALL\*\*\***

**BEAU.TENNEY@PROPETROSERVICES.COM**

# HALLIBURTON

Permian Basin, Odessa

Lab Results- Lead

## Job Information

Request/Slurry	2380655/1	Rig Name		Date	15/JUN/2017
Submitted By	Laramie Poldrack	Job Type	Intermediate Casing	Bulk Plant	
Customer	Marathon	Location	Eddy	Well	11ppg reference

## Well Information

Casing/Liner Size	7 in	Depth MD	10000 ft	BHST	150°F
Hole Size	8.75 in	Depth TVD	9750 ft	BHCT	110°F

## Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	NeoCem	Slurry Density	11	lbm/gal
17.35	gal/sack	Fresh Water	Slurry Yield	2.807	ft <sup>3</sup> /sack
			Water Requirement	17.35	gal/sack

## Pilot Test Results Request ID 2380655/1

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	PV/YP
80	17	14	10	8	6	5	5	12.26 / 5.38

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)	PV/YP
105	27	22	16	13	11	7	7	30	105	20.09 / 8.22

### Free Fluid API 10B-2

Con. Temp (°F)	Cond. Time (min)	Static time (min)	Incl. (deg)	% Fluid
105	30	120	0	0

### API Fluid Loss

Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (°F)
105	1000	11.4	101	328	30	105

### Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Start Bc
105	4300	37	7:51	8

### UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
147	4000	3:39	214	346	454	470	470	48.12

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# HALLIBURTON

Permian Basin, Odessa

Lab Results- Tail

## Job Information

Request/Slurry	2391823/2	Rig Name		Date	15/JUN/2017
Submitted By	Laramie Poldrack	Job Type	2 <sup>nd</sup> Intermediate	Bulk Plant	
Customer	Marathon	Location	Eddy	Well	14.5 Reference

## Well Information

Casing/Liner Size	7 in	Depth MD	9164 ft	BHST	146°F
Hole Size	8.75 in	Depth TVD	9164 ft	BHCT	106°F

## Cement Information - Tail Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	VersaCem H	Slurry Density	14.5	lbm/gal
5.58	gal/sack	Fresh Water	Slurry Yield	1.222	ft <sup>3</sup> /sack
0.4	% BWOC	HALAD-344 (PB)	Water Requirement	5.579	gal/sack
0.1	% BWOC	HR-601			

## Pilot Test Results Request ID 2391823/2

### Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Batch Mix (min)	Reached in (min)	70 Bc (hh:mm)	Start Bc
106	4900	0	25	5:18	19.2

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	PV/YP
80	81	57	33	22	14	4	3	77.76 / 4.75

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	Cond Time (min)	Conditioning Temp (°F)	PV/YP
106	51	36	20	13	8	2	1	30	106	50.09 / 1.96

### API Fluid Loss

Test Temp (°F)	Test Pressure (psi)	Test Time (min)	API FL (cc/30 min)	Meas. Vol.	Conditioning time (min)	Conditioning Temp (°F)
106	0	30	52	27	30	106

### Free Fluid API 10B-2

Con. Temp (°F)	Con. Pr. (psi)	Cond. Time (min)	Cool Time (min)	Static T. (°F)	Static time (min)	Incl. (deg)	% Fluid
106	0	30	120	80	120	90	0

### UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)
146	4000	5:21	12:43	198	456	1038	1724

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# HALLIBURTON

Permian Basin, Odessa

Lab Results- Lead

## Job Information

Request/Slurry	2346648/4	Rig Name		Date	15/JUN/2017
Submitted By	Laramie Poldrack	Job Type	Intermediate Casing	Bulk Plant	
Customer	Marathon	Location	Eddy	Well	9.5 Reference

## Well Information

Casing/Liner Size	7 in	Depth MD	10000ft	BHST	150°F
Hole Size	8.75 in	Depth TVD	9750 ft	BHCT	110°F

## Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
100	% BWOC	NeoCem	Slurry Density	9.5	lbm/gal
16.57	gal/sack	Fresh Water	Slurry Yield	3.476	ft <sup>3</sup> /sack
			Water Requirement	16.57	gal/sack

## Pilot Test Results Request ID 2346648/4

### Thickening Time - ON-OFF-ON

Test Temp (°F)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)
111	4252	17	08:41

### UCA Comp. Strength

End Temp (°F)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
153	4000	5:30	12:04	267	499	559	541	536	72

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	PV/YP
80	42	31	20	15	10	5	4	37.52 / 5.9

### API Rheology

Temp (°F)	300	200	100	60	30	6	3	PV/YP
111	38	29	19	15	10	5	3	33.89 / 5.82

### API Fluid Loss

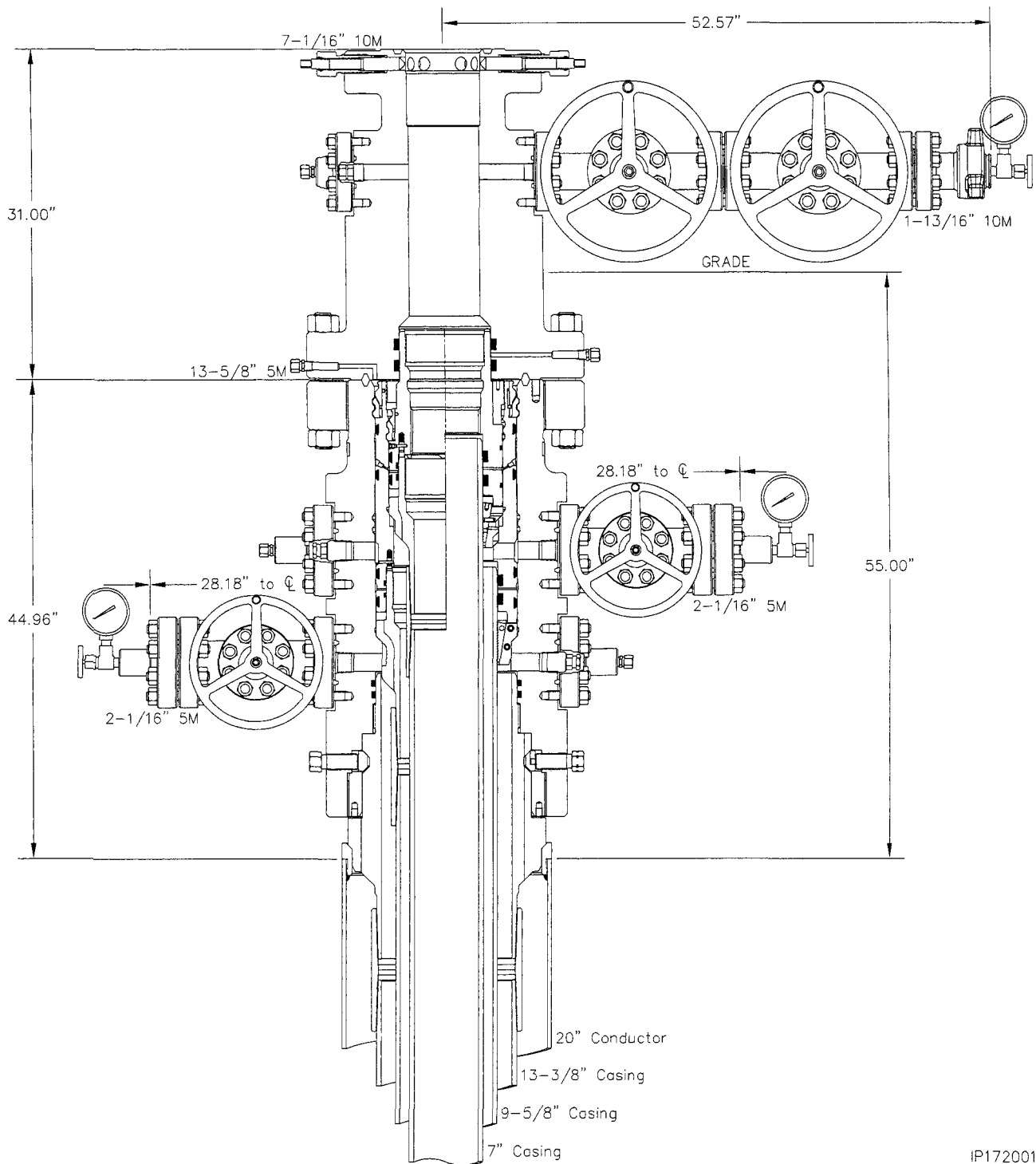
Test Temp (°F)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (°F)
111	1000	16	49	134.14	30	111

### Free Fluid API 10B-2

Con. Temp (F)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid	Trace (Y/N)
111	80	120	0	0	N

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## System Drawing



IP172001



**Kyle 34 Federal Com #5H Conditions of Approval.**

**All previous COA still apply except the following:**

**Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
- c. Manufacturer representative shall install the test plug for the initial BOP test.**
- d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.**
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**