

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



September 14, 2015

~~Brian Collins or Ocean Munds Dry, Esq.~~
~~GOG Operating, LLC~~
~~2208 W. Main Street~~
~~Artesia, NM 88210~~

(Correction: Will Jones)
RANDY COULSON
BREITBURN OPERATING LP
1401 MCKINNEY ST. (24th FL.)
HOUSTON, TX 77010

RE: Exception to Allow Compressive Strength Option per Rule 19.15.16.10 G(2) NMAC
Breitburn Operating LP, Libby Ranch Drilling for year 2015
Primary Cement Wait Time – Surface Casing
Harding County, New Mexico

Dear Sir or Madame:

Reference is made to your request on behalf of Breitburn Operating LP (OGRID 370080; "Breitburn") received by the Division on September 14, 2015.

The data you have submitted indicate that compressive strength for the surface casing cement under the best assumptions for the slurry, mixing, and hole conditions will likely achieve at least 500 psi compressive strength within 8 hours.

Based on the data supplied, you are hereby granted an exception to the mandatory 18 hour wait-on-cement time for the surface cement job on the wells to be drilled in 2015 by Breitburn within Harding County, NM and may use the method as detailed in Rule 19.15.16.10 G(2) NMAC to verify cement competency.

The other requirements of Rule 19.15.16 (G and H) remain in place, including the 8-hour stationary wait-on-cement, and detailed reporting on form C-103 of cementing details. In addition, the Division requires cement to be circulated on all surface casing strings.

The Division Director may rescind this exception if it becomes apparent that cement volume and quantity is not adequate and zonal isolation is not being achieved.

Sincerely,

DAVID R. CATANACH
Director

DRC/wvjj

cc: Oil Conservation Division – Santa Fe
API's: 30-021-20686/20572/20579/20682/20688/20691

9-14-2015

From: Randy J Coulson
Senior Drilling Engineer
Breitburn Operating LP
1401 McKinney Street, 24th Floor
Houston, Texas 77010

To: William V. Jones
District IV Supervisor
New Mexico Oil Conservation Division

Dear Sir:

Breitburn Operating LP hereby requests an exception to rule paragraph (2) Subsection G, 19.15.16.10 NMAC. The exception to the rule would allow Harding County to be included in the 500 psi requirement option as described in paragraph (2).

This request would cover all 6 wells in the current Libby Ranch drilling program and would include both surface and production strings for all wells. The estimated formation temperatures, mixing temperatures, and cement types / additives are planned and projected to be very similar for the 6 wells.

Attached for your information is the current lab test of the planned surface blend for the first upcoming well. The lab test indicates an 8 hour compressive strength of 594 psi and a 12 hour strength of 930 psi. We do not anticipate commencing testing operations prior to 10 hours after cement is in place. Additional lab tests for the production casing will be provided to further support this request.

If you should require further information, please contact myself at the contact number below.

Thank you for your consideration with this request.

Regards



Randy Coulson

Randy Coulson

Sr. Drilling & Completions Engineer
Breitburn Operating LP
1401 McKinney Street, Suite 2400
Houston, TX 77010
office: (713) 437-8024
cell: (832) 752-1956
email: randy.coulson@breitburn.com
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Allied Oil and Gas Services
 Oklahoma City Laboratory
 1105 Cornell Parkway
 Oklahoma City, OK 73108
 Tel. (405) 948-0995 Fax (405) 820-0033

OK-041315-2

Customer: **Breitburn**
 Well Name: **Surface**
 County:
 District: **Liberal**
 Lab Analyst: **Randy Hadlock**

TVD: **750 ft.**
 MD: **750 ft.**
 BHST: **80°F**
 BHCT: **80 °F**

Test Date: **4/20/2015**
 Requested By: **Kevin Aldridge**
 Stage Number: **N/A**
 Slurry: **Surface Tail**
 Blend Type: **Pilot**

Slurry Information

Mix Water: **6.34 gal/sk**
 Density: **14.80 ppg**
 Yield: **1.35 cuft/sk**

Mix Water %: **56.28**
 Mud Density: **9.00 ppg**

Cement Blend:		C
CA-100	2.0 % bwoc	
CLC-CPF	0.25 lb/sk	

Thickening Time @ 80°F			
Time to Temp	Time	Bc	Final Pressure
4	2:36	8	1500 psi

Compressive Strengths @ 80°F	
Time	UCA CS
8 Hr.	594 psi
12 Hr.	930 psi
24 Hr.	1726 psi
48 Hr.	2885 psi
72 Hr.	3526 psi
50 psi	2:21
500 psi	7:01

Fluid Properties			Rheological Data (cP)						
Temperature	FL	FW	300	200	100	6	3	10 sec	10 min
80°F		0.0 ml/250	81	61	54	46	28	21	19 66

Comments
TT with a 10 min hesitation at 13 min. Passed hesitation at 4 bc

<TOUCH HERE>
TO SELECT COMPANY LOGO
MAX 192x96 pixel

ok-041315-21dms

name	UCA235
Start Time	4/14/2015 4:52 PM
Test Name	ok-041315-21dms

Instrument	UCA235
Customer	
WATER	



CTE, Inc.
Tulsa, OK



www.ctetulsa.com

Alarm 1.20Strength (ksi)	Strength (ksi) 1.20 @ 27:32 H:MM
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Date Printed: 2015.04.20 at Time: 13:41 (H:MM)