

NOV 15 2018

Form C-103

Revised July 18, 2013

Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-015-45043
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator RKI Exploration & Production, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 3500 One Williams Center, MD 35, Tulsa, OK 74172		7. Lease Name or Unit Agreement Name Cass Draw 10-23-27
4. Well Location Unit Letter H : 2619 feet from the North line and 338 feet from the East line Section 9 Township 23S Range 27E NMPM County Eddy		8. Well Number 401H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3116 GL		9. OGRID Number 246289
10. Pool name or Wildcat Purple Sage; Wolfcamp (gas) 98220		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☒
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Please be advised, RKI Exploration & Production, LLC set 2nd intermediate casing.

Summary of operations is as follows:

Set 2nd Intermediate casing and cement - 11/10/2018
 7" csg, 29#, HCP-110, depth 0'-9,437'
 Lead cement - 607 sacks, 11.5 ppg; Tail cement - 175 sacks, 15.6 ppg
 Drop top plug, bumped @ 1157 psi, check floats, good, 2 bbls bled back
 11 sacks cement to surface

Spud Date:

10/22/2018

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Ashlee Fechino

TITLE **Regulatory Team Lead**

DATE **11/15/2018**

Type or print name **Ashlee Fechino**

E-mail address: **ashlee.fechino@wpenergy.com** PHONE: **539-573-0212**

For State Use Only

APPROVED BY:

Rusty K...

TITLE

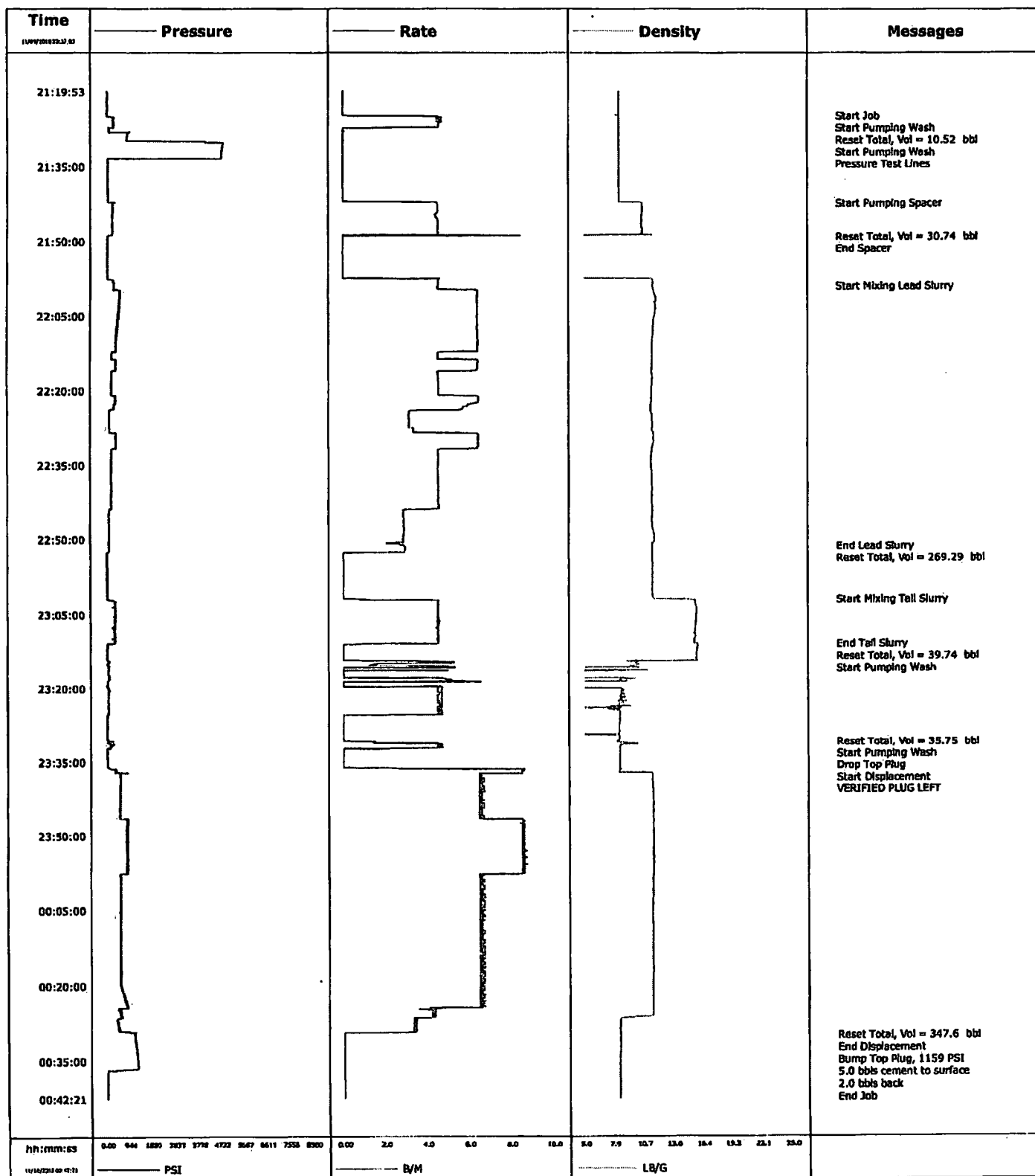
Business Ops Spec A

DATE

11-15-2018

Conditions of Approval (if any):

Well	Cass Draw 10-23-27 Fee401H	Client	WPX ENERGY PRODUCTION LLC
Field		SIR No.	DZ60-00499
Engineer	HECTOR COLON	Job Type	7 INTERMEDIATE
Country	USA	Job Date	11/10/18



Page 1 of 3

Well			Field		Job Start	Customer		Job Number
Cass Draw 10-23-27 Fee401H 401H					Nov/10/2018	WPX ENERGY PRODUCTION LLC		DZ60-00499
Date	Time 24-hr clock	Testing Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Total Volume BBL	Message	
11/09/2018	21:52:03	67	0.0	0.07	0.0	41.3		
11/09/2018	21:57:03	65	0.0	0.01	0.0	41.3		
11/09/2018	21:58:54	329	4.6	11.64	6.5	47.7	Start Mixing Lead Slurry	
11/09/2018	22:02:03	574	6.5	11.94	25.2	66.5		
11/09/2018	22:07:03	501	6.5	11.69	57.5	98.7		
11/09/2018	22:12:03	415	6.5	11.53	89.7	131.0		
11/09/2018	22:17:03	247	4.5	11.56	117.3	158.5		
11/09/2018	22:22:03	413	6.5	11.48	142.1	183.3		
11/09/2018	22:27:03	157	3.2	11.59	163.1	204.4		
11/09/2018	22:32:03	255	4.6	11.55	190.1	231.4		
11/09/2018	22:37:03	249	4.6	11.52	212.9	254.1		
11/09/2018	22:42:03	250	4.6	11.54	235.7	276.9		
11/09/2018	22:47:03	144	2.9	11.59	253.3	294.6		
11/09/2018	22:51:20	144	2.9	11.46	265.5	306.8	End Lead Slurry	
11/09/2018	22:52:03	143	3.0	11.59	267.7	308.9		
11/09/2018	22:52:39	57	0.7	11.60	269.3	310.5	Reset Total, Vol = 269.29 bbl	
11/09/2018	22:57:03	61	0.0	11.59	0.0	310.6		
11/09/2018	23:01:56	70	0.8	13.49	0.1	310.6	Start Mixing Tail Slurry	
11/09/2018	23:02:03	150	1.3	15.38	0.2	310.8		
11/09/2018	23:07:03	381	4.5	15.68	22.8	333.3		
11/09/2018	23:10:50	69	0.4	15.84	39.7	350.3	End Tail Slurry	
11/09/2018	23:10:54	69	0.1	15.92	39.7	350.3	Reset Total, Vol = 39.74 bbl	
11/09/2018	23:10:58	69	0.0	15.92	0.0	350.3	Start Pumping Wash	
11/09/2018	23:12:03	56	0.0	15.81	0.0	350.3		
11/09/2018	23:17:03	87	0.0	-0.00	5.3	355.6		
11/09/2018	23:22:03	114	4.7	8.47	20.8	371.1		
11/09/2018	23:27:03	54	0.0	8.39	35.6	385.9		
11/09/2018	23:30:50	110	1.5	8.12	35.7	386.0	Reset Total, Vol = 35.75 bbl	
11/09/2018	23:30:52	110	1.5	8.34	0.0	386.1	Start Pumping Wash	
11/09/2018	23:30:57	99	1.5	8.51	0.1	386.2	Drop Top Plug	
11/09/2018	23:31:02	79	1.5	8.83	0.3	386.3	Start Displacement	
11/09/2018	23:32:03	186	4.6	8.42	4.7	390.7		
11/09/2018	23:32:16	56	0.0	8.42	5.1	391.1	VERIFIED PLUG LEFT	
11/09/2018	23:37:03	400	8.5	10.16	11.9	397.9		
11/09/2018	23:42:03	595	6.5	11.60	45.1	431.1		
11/09/2018	23:47:03	860	8.5	11.61	79.0	465.0		
11/09/2018	23:52:03	879	8.5	11.60	121.7	507.7		
11/09/2018	23:57:03	883	8.6	11.61	164.3	550.4		
11/10/2018	00:02:03	603	6.6	11.60	198.4	584.4		
11/10/2018	00:07:03	581	6.7	11.60	231.3	617.4		
11/10/2018	00:12:03	583	6.6	11.60	264.2	650.2		
11/10/2018	00:17:03	595	6.6	11.60	297.2	683.3		
11/10/2018	00:22:03	730	6.6	11.59	330.2	716.3		
11/10/2018	00:27:03	467	3.4	8.43	356.6	742.7		
11/10/2018	00:29:59	1162	0.0	8.40	364.4	750.4	Reset Total, Vol = 347.6 bbl	
11/10/2018	00:30:07	1166	0.0	8.41	0.0	750.4	End Displacement	
11/10/2018	00:30:12	1168	0.0	8.41	0.0	750.4	Bump Top Plug, 1159 PSI	
11/10/2018	00:30:17	1171	0.0	8.41	0.0	750.4	5.0 bbis cement to surface	
11/10/2018	00:31:05	1192	0.0	8.40	0.0	750.4	2.0 bbis back	
11/10/2018	00:32:03	1212	0.0	8.40	0.0	750.4		
11/10/2018	00:37:03	58	0.0	8.40	0.0	750.4		
11/10/2018	00:37:40	60	0.0	8.39	0.0	750.4	End Job	

Well Cass Draw 10-23-27 Fee401H 401H	Field	Job Start Nov/10/2018	Customer WPX ENERGY PRODUCTION LLC	Job Number DZ6O-00499
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl					
Slurry 6.5	N2	Mud	Maximum Rate 8.5	Total Slurry 309.0	Mud	Spacer 31.0	N2			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum 4678	Final 0	Average 245	Bump Plug to 485	Breakdown 0	Type DrillWater	Volume bbl	Density 8.34 lb/gal			
Avg. N2 Percent %	Designed Slurry Volume 307.0 bbl		Displacement 347.6 bbl	Mix Water Temp 58 degF	Cement Circulated to Surface? ☒		Volume bbl			
					Washed Thru Perfs ☐		To ft			
Customer or Authorized Representative CHRIS JONES			Schlumberger Supervisor HECTOR COLON			Circulation Lost ☐	Job Completed ☒			
						-	-			

Laboratory Cement Test Report Intermediate 2 Lead Field Blend Hobbs District Laboratory Service Order Number: 2837848

Fluid No : HNM180788-FL001	Client : WPX Energy	Rig : H&P 265
Date : Nov-07-2018	Well Name : Cass Draw 10-23-27 Fee 401H	

Signatures
Report created by: P. Pappas
Design Input by: P. Pappas

Job Type	Intermediate 2	Depth	9411.0 ft	TVD	9084.0 ft
BHST	185 degF	BHCT	152 degF	BHP	5800 psi
Starting Temp.	80 degF	Time to Temp.	01:00 hr:mn	Heating Rate	1.20 degF/min
Starting Pressure	604 psi	Time to Pressure	01:00 hr:mn	Schedule	9.7-2

Composition

Slurry Density	11.60 lb/gal	Yield	2.49 ft ³ /sk	Mix Fluid	14.653 gal/sk
Solid Vol. Fraction	21.3 %	Porosity	78.7 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
60:60 POZ/C		84 lb of BLEND	Blend	176.01 lb/ft ³	6833
Tap Water	14.633 gal/sk		Base Fluid		Tap
D079	0.250 %BWOB		Extender		112003
D047	0.020 gal/sk		Antifoam		D00918PL69
D020	9.000 %BWOB		Extender		Bulk
D013	0.600 %BWOB		Retarder		08J-29

Rheology R1B1 F1.0 S/N: 383

Temperature	72 degF			152 degF		
(rpm)	Up (deg)	Down (deg)	Average (deg)	Up (deg)	Down (deg)	Average (deg)
300	18.0	18.0	18.0	33.0	33.0	33.0
200	15.0	15.0	15.0	30.0	29.0	29.8
100	13.0	13.0	13.0	27.0	28.0	26.6
60	12.0	12.0	12.0	24.0	23.0	23.5
30	11.0	11.0	11.0	22.0	21.0	21.6
6	10.0	10.0	10.0	16.0	14.0	14.5
3	9.0	9.0	9.0	12.0	11.0	11.6

Total Time to add solids to mix water/fluid: 00:16 mn:sc						
Vortex Quality: Good, Visible						
Slurry Conditioned at Atmospheric Pressure for 30 Minutes after reaching 152 degF						
10 sec Gel	11 deg - 11.74 lb/100ft ²			15 deg - 16.01 lb/100ft ²		
10 min Gel	22 deg - 23.48 lb/100ft ²			15 deg - 16.01 lb/100ft ²		
Rheo. computed	Viscosity: 7.522 cP Yield Point: 10.34 lb/100ft ²			Viscosity: 11.874 cP Yield Point: 21.53 lb/100ft ²		

Thickening Time S/N: 143

Set Conditions - Cement Thick (gelled)

Consistency	Time	Temp
Motor paused 1hr@	05:08 hr:mn	Pin Sheared
POD	03:08 hr:mn	162 degF
30 Bc	06:08 hr:mn	162 degF
50 Bc	08:08 hr:mn	162 degF
70 Bc	08:08 hr:mn	162 degF

Free Fluid

(0.8%) 2.0 mL/250mL In 2 hrs
At 152 degF and 0 deg Incl
Conditioned at Atmos Press for 30 Minutes @ 152 degF
Sedimentation : None
Tube Dimensions:
250mL: 35.5mmX254mm

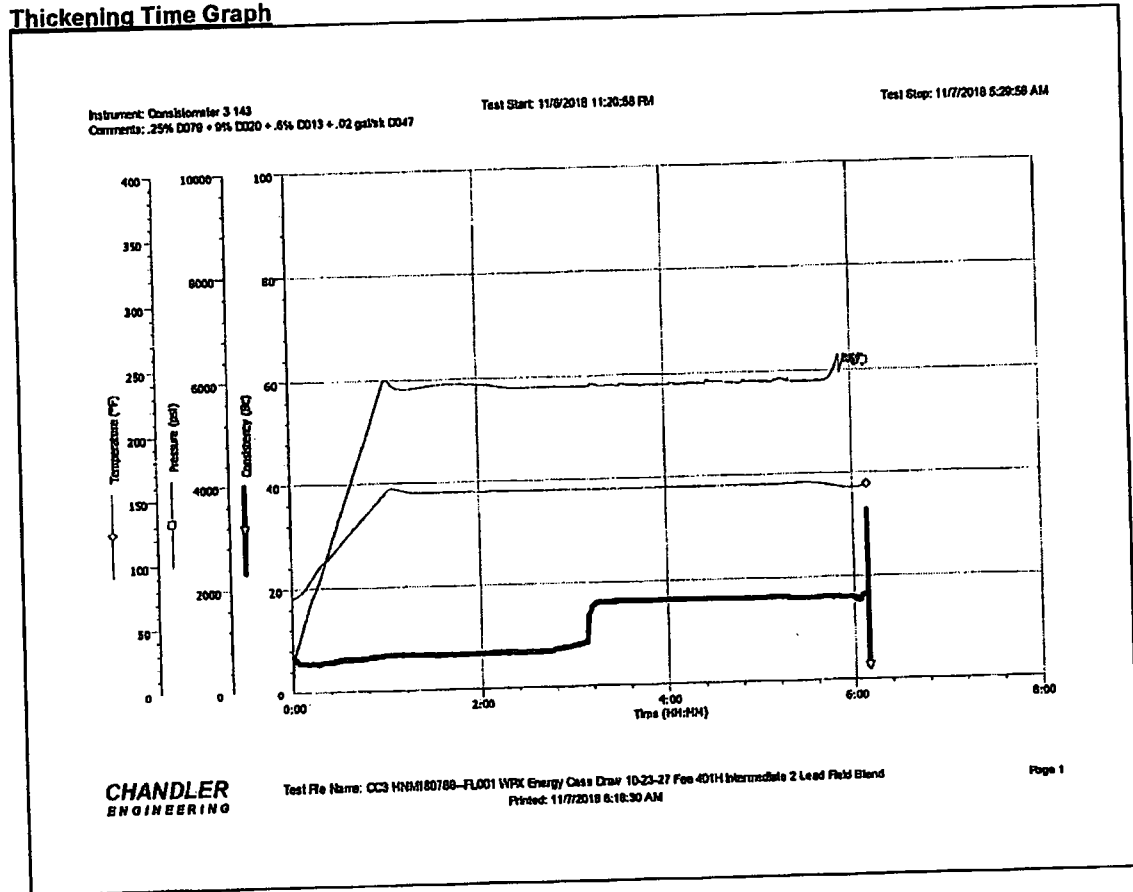
UCA Compressive Strength S/N: 300L

Time	CS	Temp
08:58 hr:mn	60 psi	165 degF
12:00 hr:mn	80 psi	165 degF
24:00 hr:mn	267 psi	165 degF

Comments

Meets Testing Requirements: P. Pappas
 All slurries prepared and tested in accordance with API RB10B-2 (unless otherwise noted)
 Slurry Density Verified by Pressurized Fluid Balance: 11.5 ppg (S/N 860210)
 Trailer number: Z0322

Thickening Time Graph

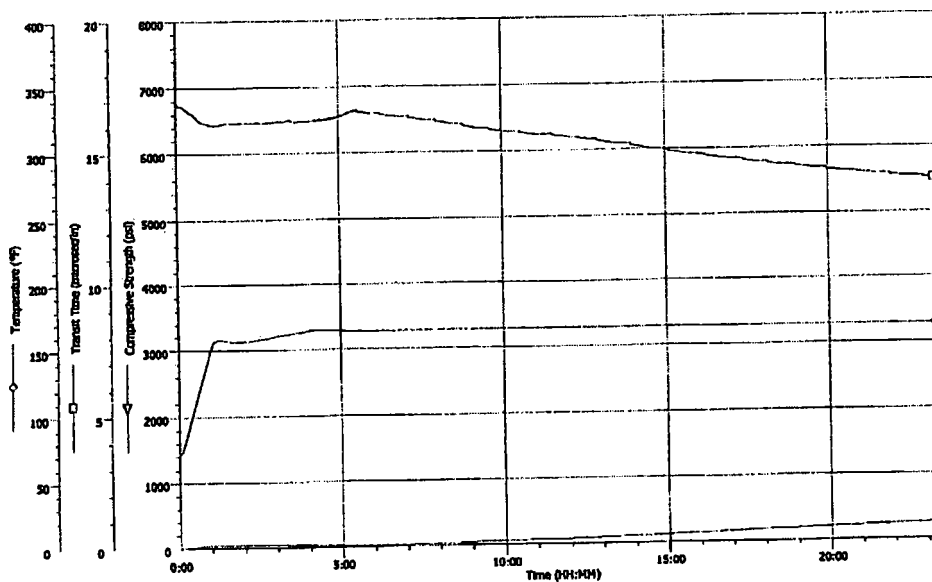


UCA Graph

SHOT: 152 SHST: 165
 Density: 11.5
 Address: 25%0079+ 9%0020+ .6%0013+ .02gph%0047

Algorithm: Compressive strength type A (less than 14 blgs)

60 psi: 8.58.00
 500 psi: N/A
 24 hr: 287 psi



James
 Butler
 James Butler
 I have reviewed
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 2018-11-08 08:03
 0103

Laboratory Cement Test Report Intermediate 2 Tail Field Blend Hobbs District Laboratory Service Order Number: 2837848

Fluid No : HNM180788-FT001	Client : WPX Energy	Rig : H&P 265	Signatures
Date : Nov-08-2018	Well Name : Cass Draw 10-23-27 Fee 401H		Report created by: C. Okam, LTT
			Design input by: P. Pappas

Job Type	Intermediate 2	Depth	9411.0 ft	TVD	9084.0 ft
BHST	165 degF	BHCT	152 degF	BHP	5800 psi
Starting Temp.	80 degF	Time to Temp.	01:00 hr:mn	Heating Rate	1.20 degF/min
Starting Pressure	604 psi	Time to Pressure	01:00 hr:mn	Schedule	9.7-2

Composition					
Slurry Density	16.80 lb/gal	Yield	1.23 ft ³ /sk	Mix Fluid	5.428 gal/sk
Solid Vol. Fraction	40.8 %	Porosity	59.2 %	Slurry type	Conventional
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
D909		94 lb of BLEND	Blend	197.27 lb/ft ³	6552
Tap Water	5.378 gal/sk		Base Fluid		Tap
D801	0.030 gal/sk		Retarder		10J-25
D066	0.100 %BWOB		Dispersant		05042018
D047	0.020 gal/sk		Antifoam		D00917J70
D020	4.000 %BWOB		Extender		Bulk

Rheology R1B1 F1.0 S/N: 383

Temperature (rpm)	70 degF			162 degF		
	Up (deg)	Down (deg)	Average (deg)	Up (deg)	Down (deg)	Average (deg)
300	80.0	80.0	80.0	83.0	83.0	83.0
200	62.0	62.0	62.0	72.0	71.0	71.5
100	42.0	42.0	42.0	60.0	59.0	59.5
60	34.0	34.0	34.0	57.0	56.0	56.5
30	28.0	28.0	28.0	55.0	54.0	54.5
6	21.0	23.0	22.0	34.0	35.0	34.5
3	17.0	20.0	18.5	28.0	30.0	29.0
Total Time to add solids to mix water/fluid: 00:15 mn:sc						
Vortex Quality: Good, Visible						
Slurry Conditioned at Atmospheric Pressure for 30 Minutes after reaching 152 degF						
10 sec Gel	25 deg - 26.68 lb/100ft ²			30 deg - 32.02 lb/100ft ²		
10 min Gel	45 deg - 48.03 lb/100ft ²			31 deg - 33.09 lb/100ft ²		
Rheo. computed	Viscosity: 58.337 cP Yield Point: 22.35 lb/100ft ²			Viscosity: 32.637 cP Yield Point: 49.93 lb/100ft ²		

Thickening Time S/N: 145

Set Conditions - Cement Thick (gelled)

Consistency	Time	Temp
POD	04:12 hr:mn	152 degF
30 Bc	04:24 hr:mn	152 degF
50 Bc	04:35 hr:mn	152 degF
70 Bc	04:37 hr:mn	152 degF

Free Fluid

(0.0%) 0.0 mL/250mL in 2 hrs
At 152 degF and 45 deg Incl
Conditioned at Atmos Press for 30 Minutes @ 152 degF
Sedimentation : None
Tube Dimensions:
250mL: 35.5mmX254mm

UCA Compressive Strength S/N: 903-R

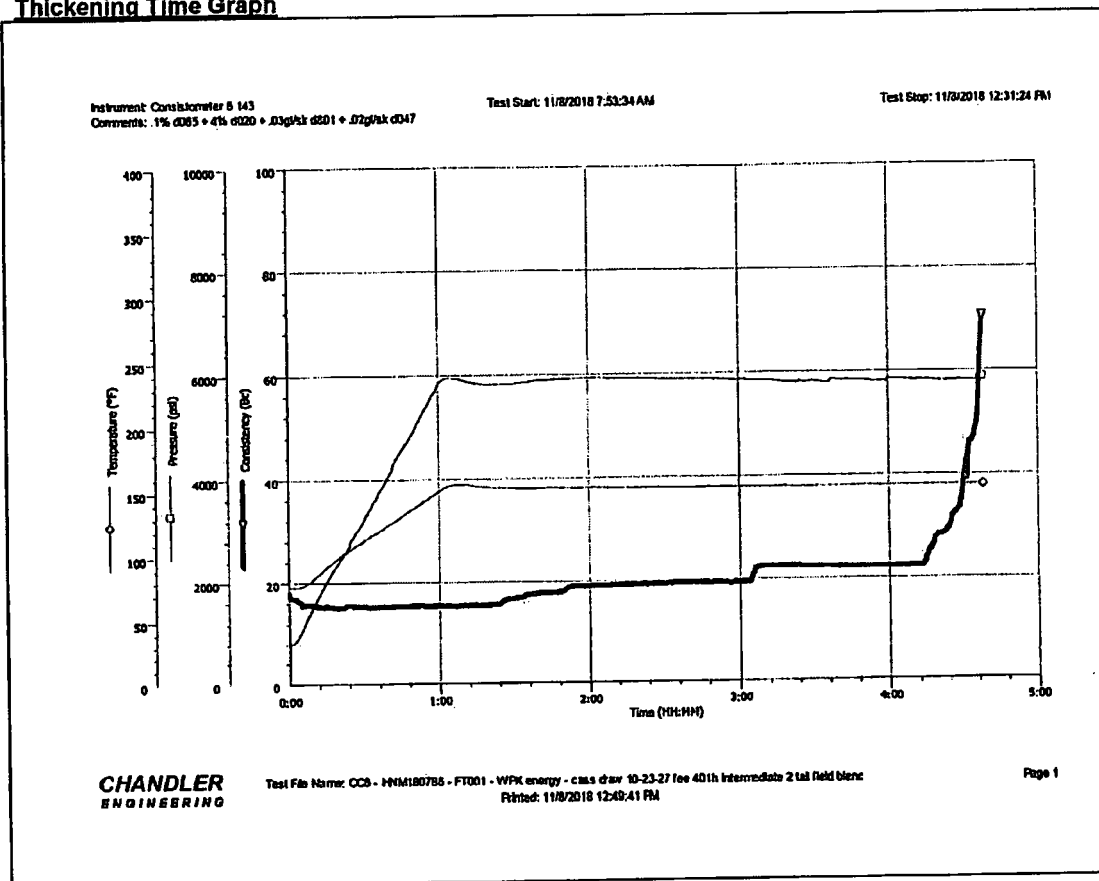
MBR18-0816PT003

Time	CS	Temp
04:49 hr:mn	50 psi	160 degF
08:45 hr:mn	500 psi	160 degF
24:00 hr:mn	2077 psi	160 degF
72:00 hr:mn	2437 psi	160 degF

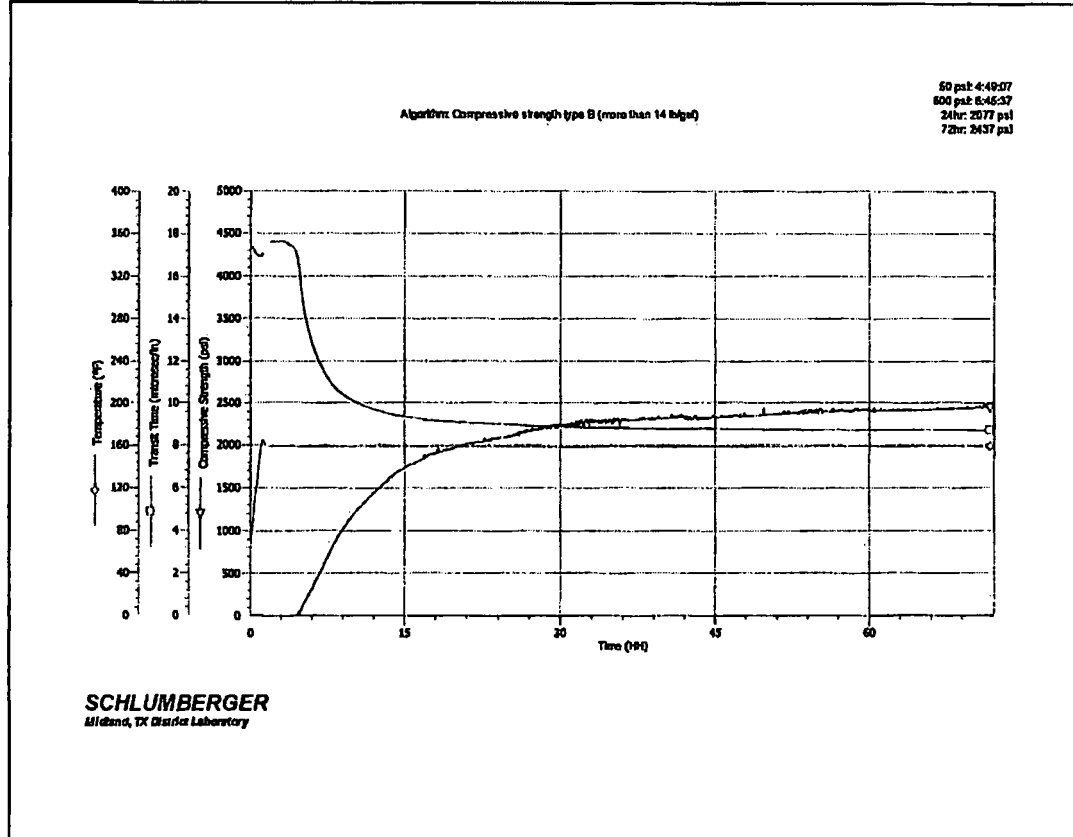
Comments

Meets Testing Requirements: C.Okam, LTT
 All slurries prepared and tested in accordance with API RB10B-2 (unless otherwise noted)
 Slurry Density Verified by Pressurized Fluid Balance: 15.6 ppg (S/N 880210)
 Trailer number: 46941

Thickening Time Graph



UCA Graph



James
Baker

James Baker
I have reviewed this
document
12/09/11 02:11:42