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

Form C-103
Revised July 18, 2013

WELL API NO. 30-015-42878
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 39255

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.)

7. Lease Name or Unit Agreement Name: High Rolling 1821-15 State
1. Type of Well: Oil Well ☐ Gas Well ☒ Other
8. Well Number 1Y
2. Name of Operator: Parallel Petroleum
9. OGRID Number 230387
3. Address of Operator: P.O. Box 10587 Midland TX. 79702
10. Pool name or Wildcat: WC Hope Mound, Wolfcamp
4. Well Location
Unit Letter M : ~~1205~~ 1199 feet from the South line and ~~330~~ 337 feet from the WEST line
Section 15 Township 18S Range 21E NMPM N-M County EDDY
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4,256

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☒	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☒
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:	☐			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.

Pump 1ST CMT Plug @ 7,529' (52SX of Class "H") - MDH & Tag @ 4,423' - MUH to 5,511' & Pump 2ND Plug (52SX of Class "H") - MUH to 3,513' & Pump 3RD Plug (52SX of Class "H") MUH to 1,519' & Pump 4TH Plug (38SX of Class "H") - MUH to 575' & Pump 5TH Plug (25SX of Class "C") - MUH to 60' & Pump 6TH & Final Plug (17SX of Class "C") - Circ 8SX to SUR Face - Cut off Wellhead & Weld on Cover Plate

Spud Date: 1-6-15 2:00 AM
Rig Release Date: 2-9-15 10:00 PM

Approved for plugging of well bore only. Liability under bond is retained pending receipt of C-103 (Subsequent Report of Well Plugging) which may be found at OCD Web Page under Forms, www.emnrd.state.nm.us/ocd.

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

SIGNATURE [signature] TITLE Wellsite Consultant DATE 2-9-15

Type or print name Jack Horton E-mail address: jhorton@pllc.com PHONE: 432-634-1703

For State Use Only

APPROVED BY: [signature] TITLE Dist. Supervisor DATE Feb 11, 2015

Conditions of Approval (if any):

★ (Submit C-105 for Final Release) and C-103 Subsequent

CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER	DATE	F.R. #	SERV. SUPV.
PARALLEL PETROLEUM COR	08-FEB-15	136421156	Jesus Z Valenzuela

LEASE & WELL NAME	LOCATION	COUNTY-PARISH-BLOCK
HIGH CALLING 1821 15 STATE 1 - API 3001540367(		Eddy New Mexico

DISTRICT	DRILLING CONTRACTOR RIG #	TYPE OF JOB
Hobbs	UDI 41	Plug & Abandon

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD

MATERIALS FURNISHED BY BJ — LAB REPORT NO. — PHYSICAL SLURRY PROPERTIES

	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
FW		8.34				5	
PLUG 1- CLASS H+2% CACL	52	15.6	1.18	5.18		11	6.46
MUD		9.6				104	
PLUG 2- CLASS H+2% CACL	52	15.6	1.18	5.18		11	6.46
MUD		9.6				75	
PLUG 3- CLASS H+2% CACL	52	15.6	1.18	5.18		11	6.46
MUD		9.6				47	
PLUG 4- CLASS H+2% CACL	38	15.6	1.18	5.18		8	4.69
MUD		9.6				17	
PLUG 5- CLASS C+ 2% CACL	25	14.8	1.33	6.33		6	3.82
MUD		9.6				5	
PLUG 6- CLASS C+ 2% CACL	17	14.8	1.33	6.33		4	2.55
FW		8.34				0.5	
					TOTAL	304.5	30.42

Available Mix Water 900 Bbl. Available Displ. Fluid 835 Bbl.

HOLE SIZE	% EXCESS	DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS SHOE	FLOAT	STAGE
7.875	20	8616	3.826	4.5	16.6	DP	7530	7530	E			

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
8.1	8.625	24	CSG	1504	1504	NO PACKER	0	0	0	4.5	XH	WATER BASED MU	9.6

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
105	BBLS	MUD	9.6	0	0	0	0	0	2950	2360	RIG
		MUD	9.6								

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: NONE

PRESSURE/RATE DETAIL TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW X CO. REP. X
						TEST LINES 3500 PSI
						CIRCULATING WELL - RIG X BJ
						FEB. 8, 2015
13:20						ARRIVE LOCATION- RIG BROKE DOWN
13:35						WATER TESTED- CHLO<500; SULF<200; PH 7
14:00						EQUIPMENT SPOTTED
16:00						PUMP TEST
17:00						SAFETY MEETING
						1st PLUG @ 7533 FT.
17:50	4200	0	1	1	FW	FILL/TEST LINES
17:52	205	0	2.7	5	FW	SPACER
17:54	214	0	5	12	CEMENT	CEMENT @ 15.6 PPG
17:57	118	0	4.7	104	MUD	DISPLACEMENT
18:25						SHUT DOWN; WASH UP

CEMENT JOB REPORT

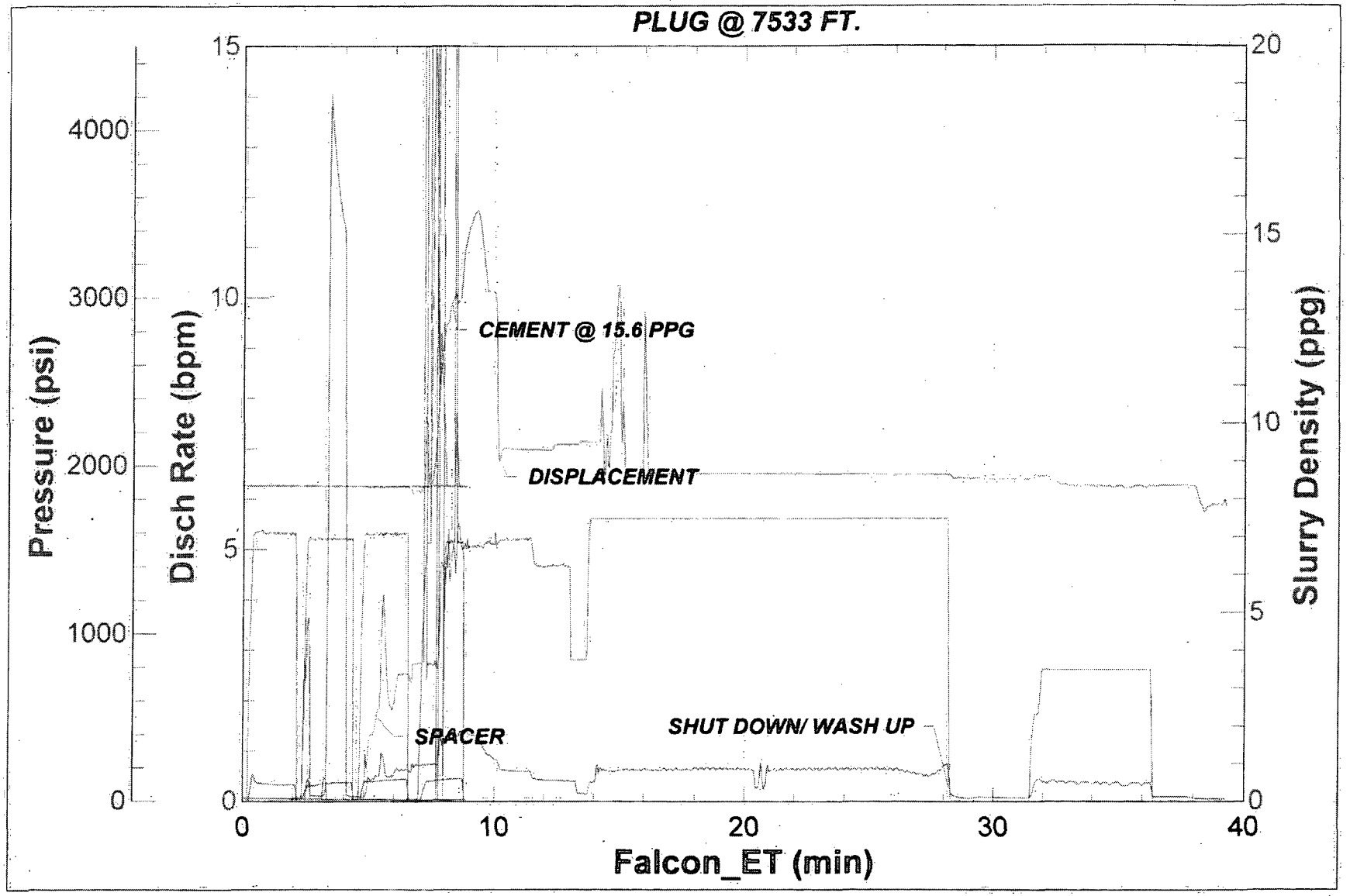
BAKER HUGHES

PRESSURE/RATE DETAIL						EXPLANATION
TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 3500 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
						FEB. 9 2015
						2nd PLUG @ 5530 FT.
01:17						SAFETY MEETING
01:24	4200	0	1	1	FW	FILL/TEST LINES
01:27	200	0	4	5	FW	SPACER
01:31	367	0	5	12	CEMENT	CEMENT @ 15.6 PPG
01:35	115	0	6	75	MUD	DISPLACEMENT
01:49						SHUT DOWN; WASH UP
						3rd PLUG @ 3530 FT.
03:20						SAFETY MEETING
03:29	4200	0	1	1	FW	FILL/TEST LINES
03:32	98	0	3	5	FW	SPACER
03:35	113	0	3.5	13	CEMENT	CEMENT @ 15.6 PPG
03:38	125	0	6.5	47	MUD	DISPLACEMENT
03:47						SHUT DOWN; WASH UP
						4th PLUG @ 1504 FT.
05:15						SAFETY MEETING
05:22	4700	0	1	1	FW	FILL/ TEST LINES
05:26	92	0	3.7	5	FW	SPACER
05:29	107	0	3.6	9	CEMENT	CEMENT @ 15.6 PPG
05:33	85	0	5.5	17	MUD	DISPLACEMENT
05:37						SHUT DOWN; WASH UP
						5th PLUG @ 573 FT.
06:30						SAFETY MEETING
06:41	4400	0	1	1	FW	FILL/ TEST LINES
06:43	135	0	3.5	5	FW	SPACER
06:45	125	0	3.9	7	CEMENT	CEMENT @ 14.8 PPG
06:48	106	0	3.6	5	MUD	DISPLACEMENT
06:50						SHUT DOWN; WASH UP
						6th PLUG @ 60 FT.
09:25						SAFETY MEETING
09:33	4300	0	1	1	FW	FILL/ TEST LINES
09:36	70	0	2.6	5	FW	SPACER
09:38	48	0	3	5	CEMENT	CEMENT @ 14.8 PPG
09:42	37	0	3	1	FW	DISPLACMENT
09:43						SHUT DOWN; WASH UP
10:00						BHI RELEASED
						CIRCULATED- 2 BBLS/ 8 SX
						THANK YOU JESSE & CREW

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y [N]		Y [N]	2	342	0	Y [N]	

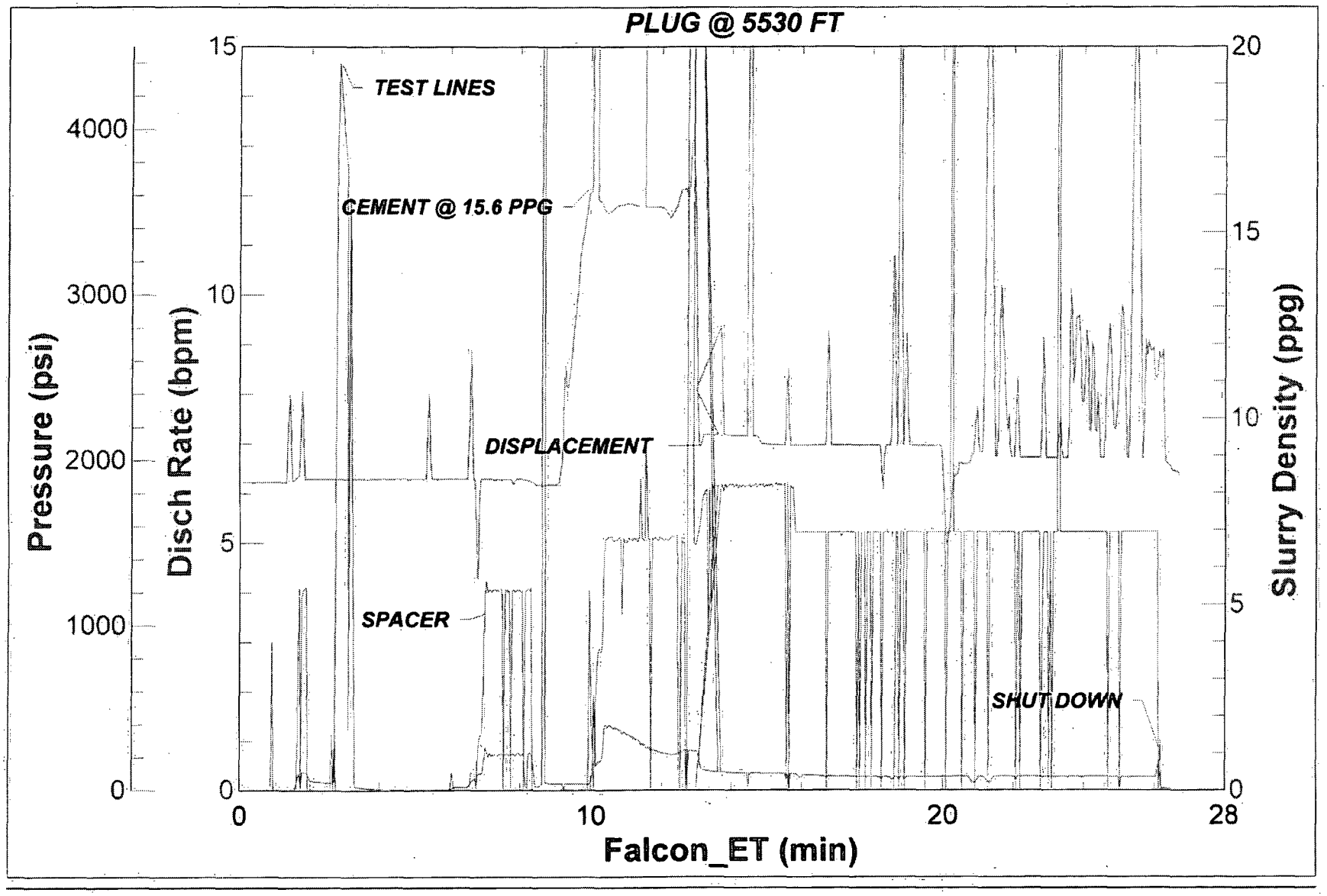
Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



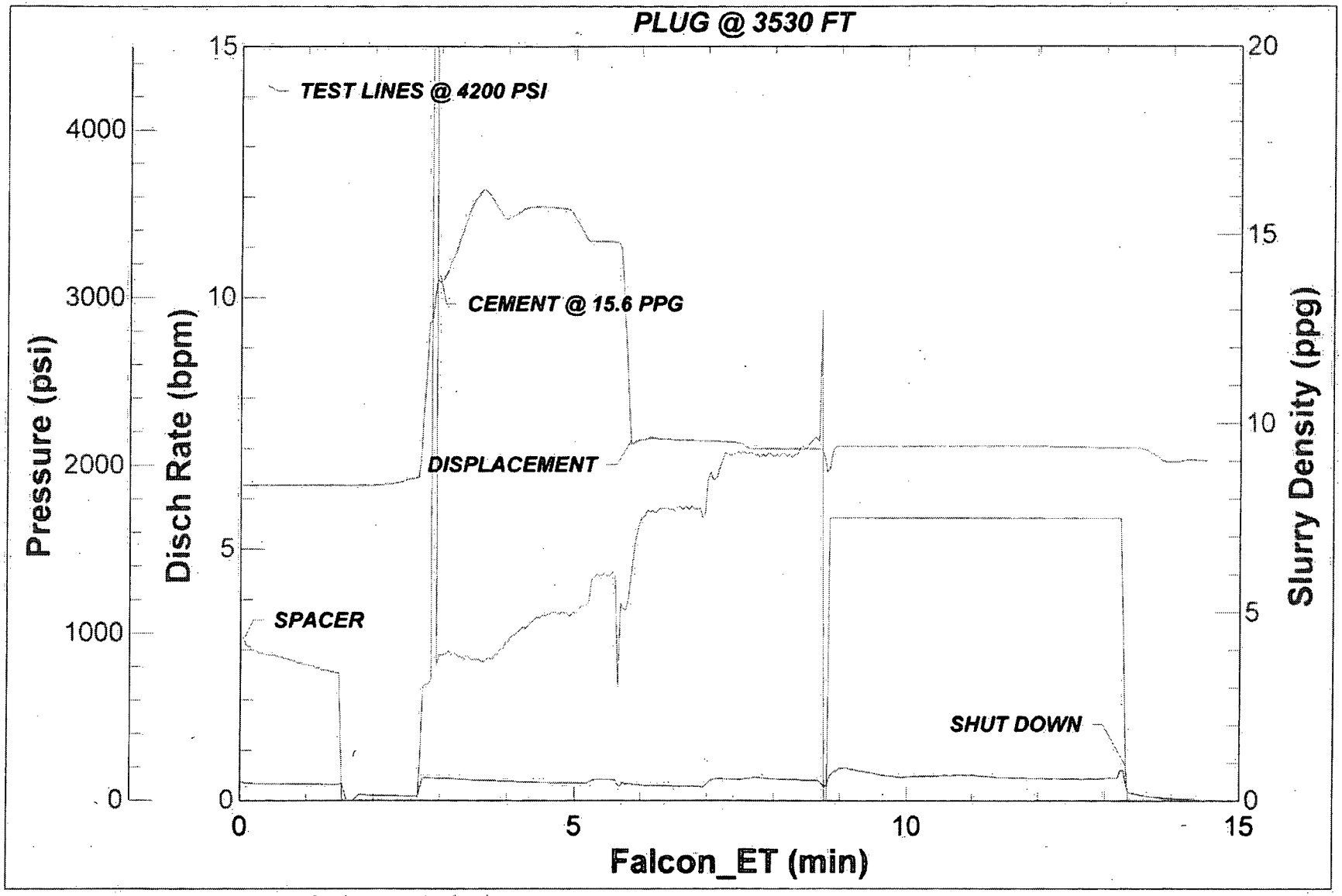
Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



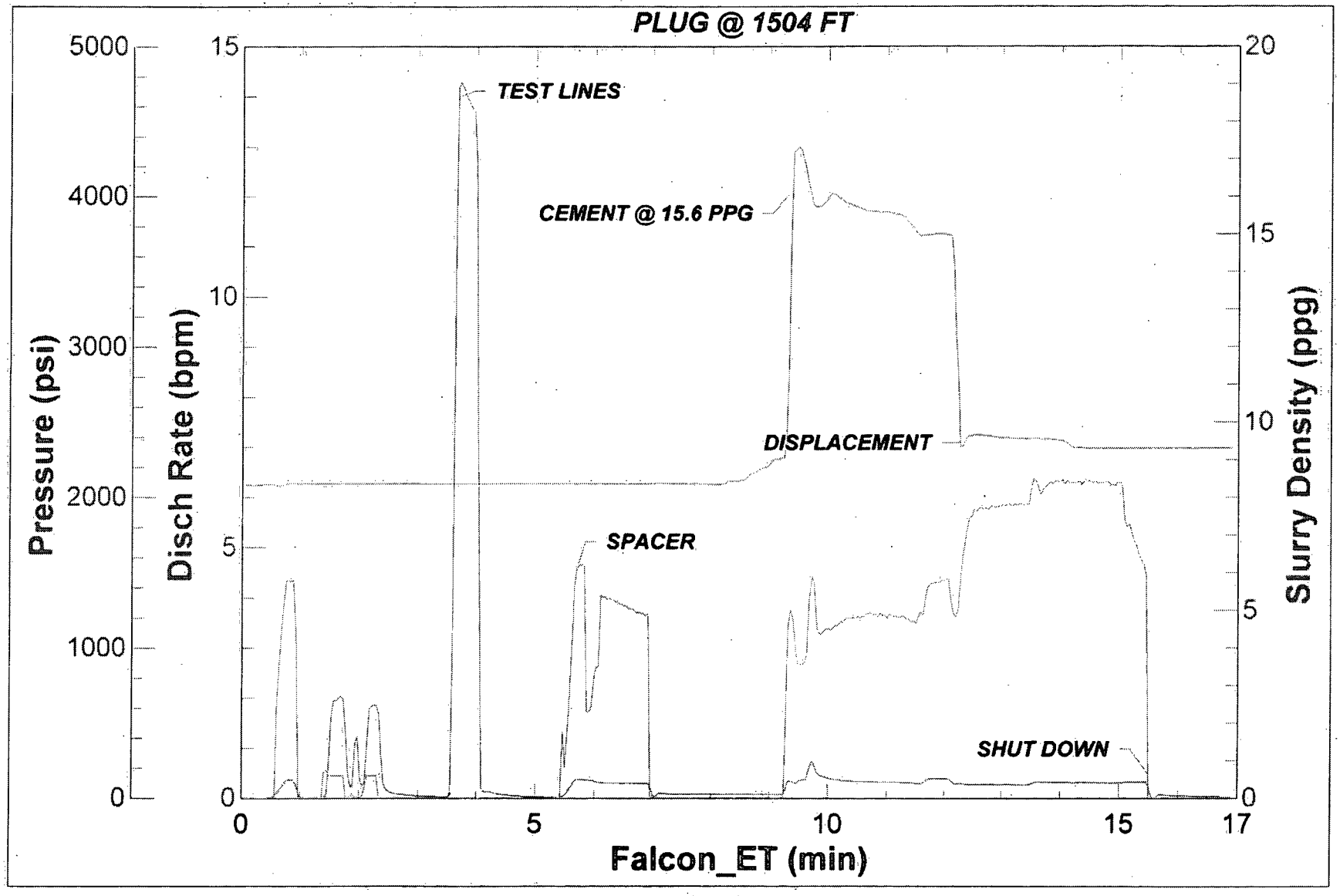
Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



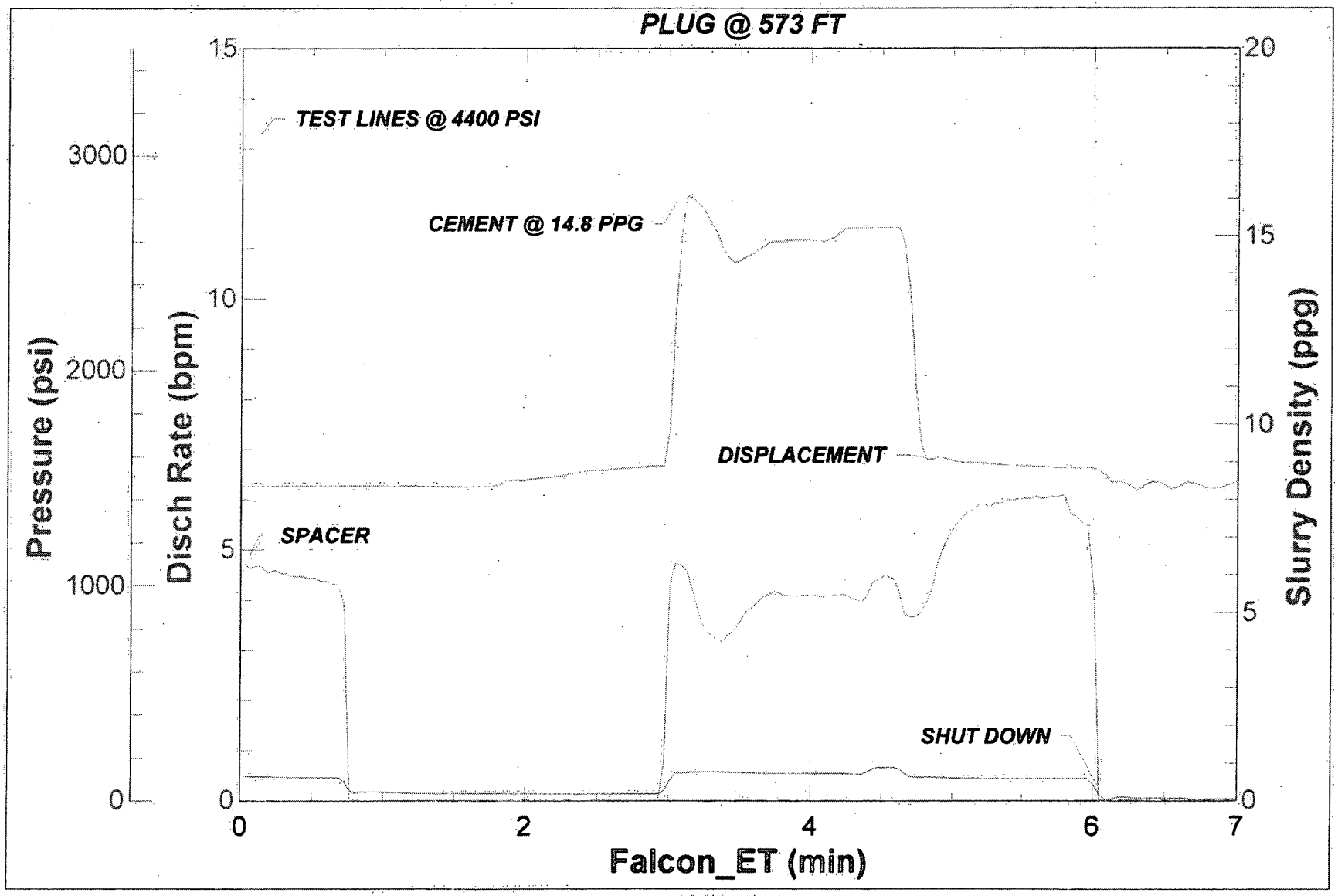
Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



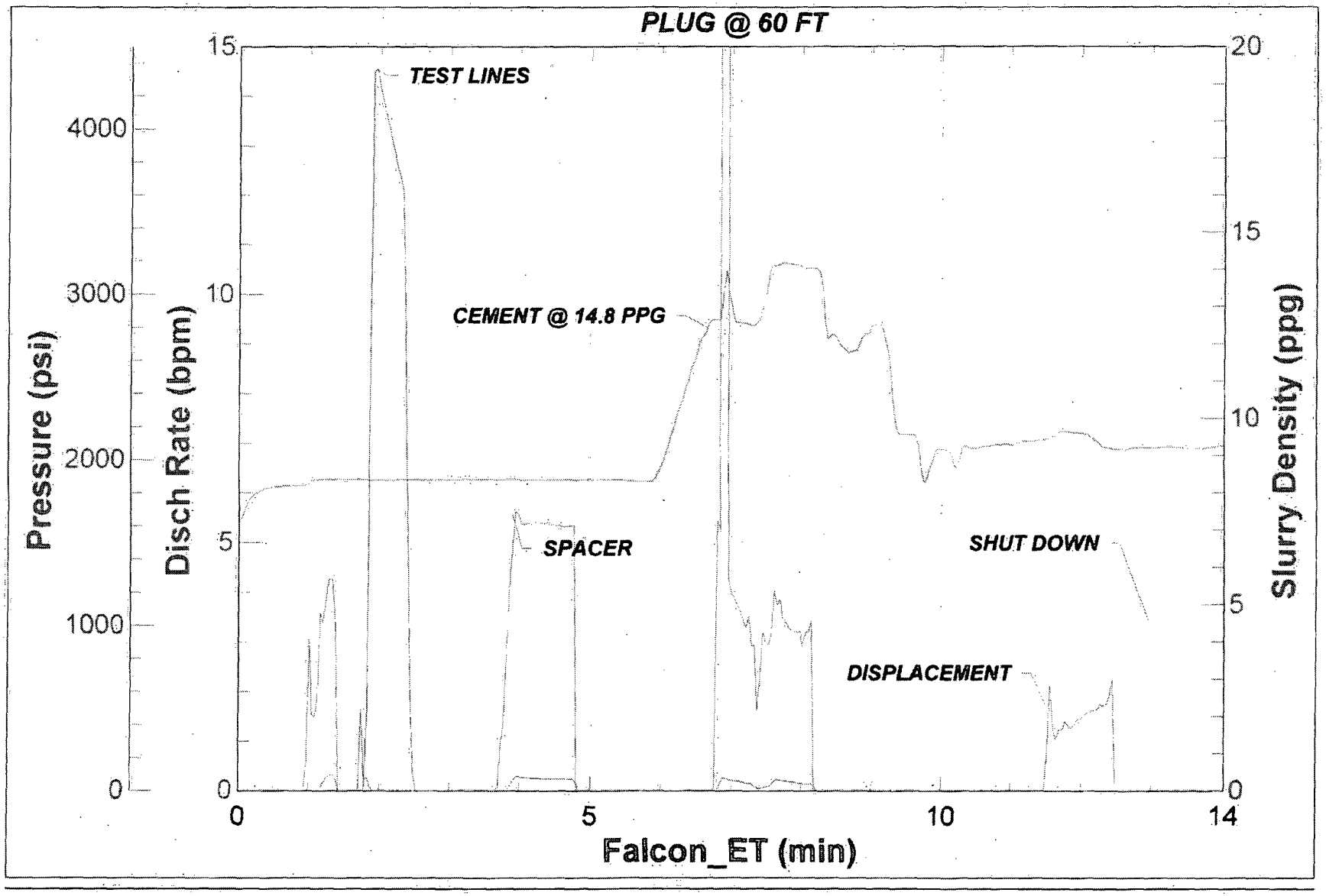
Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



Baker Hughes JobMaster Program Version 4.02

Job Number: 136421156
Customer: PARALLEL
Well Name: HIGH CALLING 1821 15 STAT 1



PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476409 **Test Date:** 2/8/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum
API #:
Well Name: High Calling 1821 15 State #1Y
Slurry Type: Single
Blend Type: Lab
Comments:

County: Eddy
State: NM
Requested By: Vanessa Guerra
TVD: 7530 **MD:** 7530
District: Hobbs

TEST DATA AND SCHEDULE

Time To Temp (min): 39.00
Initial Press (psi): 530
Final Press (psi): 4430
BHST (deg F): 129
BHCT (deg F): 129

Mud Density (lb/gal): 10
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Plug

Comments: R-3 was added to the field blend.

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'H' + 0.10% R-3 + 0.005 lb/sk Static Free

Density: 15.6 lb/gal
Yield: 1.18 CuFt/sk
Mix Water: 5.229 gal/sk (46.4%)
Total Mix Liquid: 5.229 gal/sk
Fluid Loss: cc/30 min

Pump Time (50 Bc):
Pump Time (70 Bc): 2:52
Pump Time (100 Bc):

Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
146	2:29	500	UCA
146	12	2143	UCA
146	24	2476	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	45	29	24	19	11	10	0.235	0.066	12.4	17.9	BP

Comments: Reported by: Bruce Wheeler Compressives from test #75447 (12/24/14)

PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476416 **Test Date:** 2/9/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum **County:** Eddy
API #: **State:** NM
Well Name: High Calling 1821 15 State #1Y **Requested By:** Vanessa Guerra
Slurry Type: Single **TVD:** 5530 **MD:** 5530
Blend Type: Lab **District:** Hobbs
Comments:

TEST DATA AND SCHEDULE

Time To Temp (min): 28.67 **Mud Density** (lb/gal): 10
Initial Press (psi): 430 **Mix Water Density** (lb/gal): 8.34
Final Press (psi): 3330 **Mix Water Type:** Tap Water
BHST (deg F): 116 **Surf Temp** (deg F): 80
BHCT (deg F): 116 **Job Type:** Plug
Comments: R-3 was added to the field blend.

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'H' + 0.05% R-3 + 0.005 lb/sk Static Free

Density: 15.6 lb/gal **Pump Time** (50 Bc):
Yield: 1.18 CuFt/sk **Pump Time** (70 Bc): 3:15
Mix Water: 5.232 gal/sk (46.42%) **Pump Time** (100 Bc):
Total Mix Liquid: 5.232 gal/sk
Fluid Loss: cc/30 min **Free Water** (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
146	2:29	500	UCA
146	12	2143	UCA
146	24	2476	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	65	37	30	23	13	12	0.252	0.075	14.5	24.0	BP

Comments: Compressives from test #75447(12/24/2014) Reported by: Bruce Wheeler

PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476417 **Test Date:** 2/9/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum
API #:
Well Name: High Calling 1821 15 State #1Y
Slurry Type: Single
Blend Type: Lab
Comments:

County: Eddy
State: NM
Requested By: Vanessa Guerra
TVD: 3530 **MD:** 3530
District: Hobbs

TEST DATA AND SCHEDULE

Time To Temp (min): 18.33
Initial Press (psi): 340
Final Press (psi): 2190
BHST (deg F): 103
BHCT (deg F): 103
Comments:

Mud Density (lb/gal): 10
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Plug

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'C' + 1.00% CaCl2 + 0.20% R-3 + 0.005 lb/sk Static Free

Density: 14.8 lb/gal
Yield: 1.336 CuFt/sk
Mix Water: 6.332 gal/sk (56.18%)
Total Mix Liquid: 6.332 gal/sk
Fluid Loss: cc/30 min

Pump Time (50 Bc):
Pump Time (70 Bc): 2:26
Pump Time (100 Bc):

Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
118	4:39	500	UCA
118	12	1626	UCA
118	24	2024	UCA
118	48	2344	UCA
118	72	2505	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	64	50	44	37	25	18	0.169	0.177	28.1	24.9	PL

Comments: Compressives from test #75864 (1/15/15) Reported by: Bruce Wheeler

PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476412 **Test Date:** 2/8/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum
API #:
Well Name: High Calling 1821 15 State #1Y
Slurry Type: Single
Blend Type: Lab
Comments:

County: Eddy
State: NM
Requested By: Vanessa Guerra
TVD: 1554 **MD:** 1554
District: Hobbs

TEST DATA AND SCHEDULE

Time To Temp (min): 8.000
Initial Press (psi): 280
Final Press (psi): 1080
BHST (deg F): 90
BHCT (deg F): 90
Comments:

Mud Density (lb/gal): 10
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Plug

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'C' + 1.00% CaCl2 + 0.005 lb/sk Static Free

Density: 14.8 lb/gal
Yield: 1.335 CuFt/sk
Mix Water: 6.341 gal/sk (56.26%)
Total Mix Liquid: 6.341 gal/sk
Fluid Loss: cc/30 min

Pump Time (50 Bc):
Pump Time (70 Bc): 1:58
Pump Time (100 Bc):

Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
90	6:15	500	UCA
90	12	1117	UCA
90	24	1836	UCA
92	48	2524	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	83	64	55	45	27	20	0.211	0.173	31.0	36.7	PL

Comments: Compressives from test #75745 (1/10/15) Reported by: Bruce Wheeler

PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476413 **Test Date:** 2/8/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum
API #:
Well Name: High Calling 1821 15 State #1Y
Slurry Type: Single
Blend Type: Lab
Comments:

County: Eddy
State: NM
Requested By: Vanessa Guerra
TVD: 623 **MD:** 623
District: Hobbs

TEST DATA AND SCHEDULE

Time To Temp (min): 3.333
Initial Press (psi): 250
Final Press (psi): 740
BHST (deg F): 84
BHCT (deg F): 84
Comments:

Mud Density (lb/gal): 10
Mix Water Density (lb/gal): 8.34
Mix Water Type: Tap Water
Surf Temp (deg F): 80
Job Type: Plug

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'C' + 2.00% CaCl2 + 0.005 lb/sk Static Free

Density: 14.8 lb/gal
Yield: 1.345 CuFt/sk
Mix Water: 6.354 gal/sk (56.38%)
Total Mix Liquid: 6.354 gal/sk
Fluid Loss: cc/30 min

Pump Time (50 Bc):
Pump Time (70 Bc): 1:42
Pump Time (100 Bc):

Free Water (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
83	6:27	500	UCA
83	12	926	UCA
83	24	1503	UCA
83	48	2179	UCA
83	72	2456	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	100	84	78	70	45	32	0.158	0.331	53.3	37.9	PL

Comments: Compressives from test #75527 (12/29/2014) Reported by: Bruce Wheeler

PERMIAN REGION LAB
Cement Lab Report

Phone: (432) 530-2667 Fax: (432) 530-0279

Test Number: 529476414 **Test Date:** 2/8/2015
Report Number:

WELL INFORMATION

Operator: Parallel Petroleum **County:** Eddy
API #: **State:** NM
Well Name: High Calling 1821 15 State #1Y **Requested By:** Vanessa Guerra
Slurry Type: Single **TVD:** 60 **MD:** 60
Blend Type: Lab **District:** Hobbs
Comments:

TEST DATA AND SCHEDULE

Time To Temp (min): 0.3333 **Mud Density** (lb/gal): 10
Initial Press (psi): 250 **Mix Water Density** (lb/gal): 8.34
Final Press (psi): 700 **Mix Water Type:** Tap Water
BHST (deg F): 80 **Surf Temp** (deg F): 80
BHCT (deg F): 80 **Job Type:** Plug
Comments:

SLURRY AND TEST RESULTS

Vendor: Cemex
Slurry: Class 'C' + 2.00% CaCl2 + 0.005 lb/sk Static Free

Density: 14.8 lb/gal **Pump Time** (50 Bc):
Yield: 1.345 CuFt/sk **Pump Time** (70 Bc): 1:56
Mix Water: 6.354 gal/sk (56.38%) **Pump Time** (100 Bc):
Total Mix Liquid: 6.354 gal/sk
Fluid Loss: cc/30 min **Free Water** (ml): (Tested at 90 ° Angle)

Compressive Strength

Temp	Time	Strength	Type
80	6:53	500	UCA
80	12	887	UCA
80	24	1453	UCA
80	48	2101	UCA

Rheology (PL=Power Law, BP= Bingam Plastic)

Temp	600	300	200	100	6	3	n'	k'	Yp	Pv	Best
80	100	84	78	70	45	32	0.158	0.331	53.3	37.9	PL

Comments: Compressives from test # 74809 (11/27/2014) Reported by: Bruce Wheeler

NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT 2 OFFICE
811 S. FIRST STREET
ARTESIA, NM 88210
(575)748-1283

CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT

Operator: PARALLEL

Well Name & Number: High Calling

API #: 30-015-42878

1. Produced water **will not** be used during any part of the plugging & abandonment operation.

2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.

3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.

4. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator, as well as the contractor, to verify that this permit is place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.

5. A subsequent C-103 will serve as notification that the well bore has been plugged ONLY. A C-103 FINAL shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.

6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.

7. Every attempt must be made to clean the well bore out to below the perfs, before any plugs can be set, by whatever means possible.

8. **Cement Retainers may not be used.**

9. **Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.**

10. **Plugs may be combined after consulting with and getting approval from NMOCD.**

11. **Minimum WOC time for tag plugs will be 4 Hrs.**

DATE: 2/11/15 **APPROVED BY:**

GUIDELINES FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.

- Formations to be isolated with plugs placed at the top of each formation are:
  - Fusselman
  - Devonian
  - Morrow
  - Wolfcamp
  - Bone Spring
  - Delaware
  - Any Salt Section (Plug at top and bottom)
  - Abo
  - Glorieta
  - Yates (this plus is usually at base of salt section)

- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- In the R-111-P area (Potash Mine area) a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts common to the section penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).