

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
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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

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. 30-015-45274
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 74175		7. Lease Name or Unit Agreement Name FRONTIER 32-23-26 STATE
4. Well Location Unit Letter P : 248 feet from the S line and 350 feet from the E line Section 32 Township 23S Range 26E NMPM County EDDY		8. Well Number 431H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,463 RKB		9. OGRID Number 246289
		10. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)

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.

The Intermediate Casing for the above referenced well has been set as follows:

Set Intermediate Casing and Cement: 12-05-2018
Size of Pipe: 7"
Weight: 29# Grade: P110EYHC
591 sx of 11.5 ppg 50/50 POZ C LEAD Cement
and 192 sx of 15.6 ppg Class H Tail
Centralizers Used: 51
Depth of Hole: 9,155'
Float Shoe Set at: 9,140'
Float Collar Set at: 9,054'
Top of Cement: 1,200'
Tested Casing for 30 mins to 1500 psi

Spud Date:

11-26-2018

Rig Release Date:

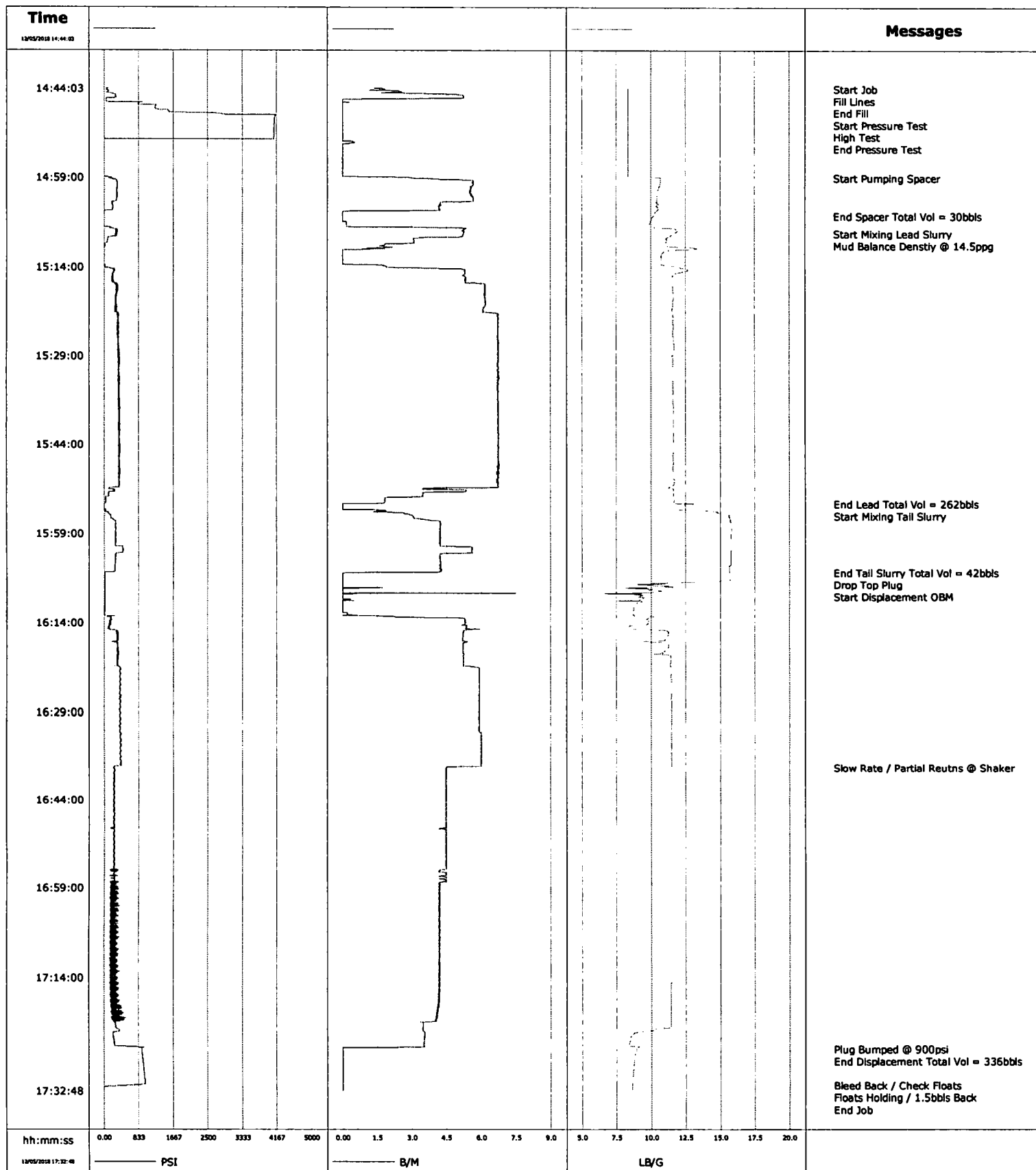
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Lorri Kline (Digitally signed by Lorri Kline
DN: cn=Lorri Kline, o=Oil
and Natural Resources, ou=Energy, email=lorri.kline@wpenergy.com, c=US
Date: 2018.12.10 14:51:17 -0500) TITLE REGULATORY TECH II DATE 12/10/2018

Type or print name LORRI KLINE E-mail address: lorri.kline@wpenergy.com PHONE: 539-573-3518

For State Use Only
APPROVED BY: Rusty Kline TITLE Business Ops Spec A DATE 12-12-2018
Conditions of Approval (if any)

Well	FRONTIER 32-23-26 STATE	Client	WPX
Field	PURPLE SAG	SIR No.	E7OW-00003
Engineer	Tim Hammer	Job Type	INTERMEDIATE
Country	United States	Job Date	12-05-2018



Cementing Service Report

				Customer WPX				Job Number E7OW-00003							
Well FRONTIER 32-23-26 STATE 431H				Location (legal)				Schlumberger Location Midland				Job Start Dec/05/2018			
Field PURPLE SAG		Formation Name/Type		Deviation 90 deg		Bit Size 8.8 in		Well MD 9140.0 ft		Well TVD 8931.0 ft					
County EDDY		State/Province NEW MEXICO		BHP psi		BHST 164 degF		BHCT 150 degF		Pore Press. Gradient lb/gal					
Well Master 0631787636		API/UWI 30015452740000													
Rig Name H&P 265		Drilled For Oil		Service Via Land		Casing/Liner									
						Depth, ft		Size, in		Weight, lb/ft		Grade			
						1791.0		9.6		40.0		J-55			
						9140.0		7.0		29.0		P-110			
Offshore Zone		Well Class New		Well Type Development											
Drilling Fluid Type BRINE		Max. Density 8.90 lb/gal		Plastic Viscosity 7.000 cP		Tubing/Drill Pipe									
						T/D		Depth, ft		Size, in		Weight, lb/ft			
Service Line Cementing		Job Type INTERMEDIATE				Perforations/Open Hole									
						Top, ft		Bottom, ft		shot/ft		No. of Shots			
						ft		ft				Total Interval ft			
						ft		ft				Diameter in			
						ft		ft							
						Treat Down Casing		Displacement 336.5 bbl		Packer Type		Packer Depth ft			
						Tubing Vol. bbl		Casing Vol. 339.7 bbl		Annular Vol. 247.3 bbl		Openhole Vol. bbl			
Casing/Tubing Secured ☒		1 Hole Vol. Circulated prior to Cement ☒				Casing Tools				Squeeze Job					
Lift Pressure 6892 psi						Shoe Type Float				Squeeze Type					
Pipe Rotated ☐		Pipe Redrilled ☐				Shoe Depth 9140.0 ft				Tool Type					
No. Centralizers 51		Top Plugs 1		Bottom Plugs		Stage Tool Type				Tool Depth ft					
Cement Head Type Single						Stage Tool Depth ft				Tail Pipe Size in					
Job Scheduled For Dec/05/2018 05:00		Arrived on Location Dec/05/2018 08:45		Leave Location Dec/05/2018 18:30		Collar Type Float				Tail Pipe Depth ft					
						Collar Depth 9055.5 ft				Seq. Total Vol. bbl					
Data		Time 24-hr clock		Pressure PSI		Rate B/M		Density LB/G		Volume BBL		Stage Volume BBL		Message	
12/05/2018		14:44:03		66		1.4		8.35		0.0		0.0		Started Acquisition	
12/05/2018		14:44:05		71		1.6		8.35		0.0		0.0		Start Job	
12/05/2018		14:44:06		71		1.7		8.35		0.1		0.1		Fill Lines	
12/05/2018		14:45:33		286		5.2		8.34		4.8		4.8			
12/05/2018		14:46:03		58		0.0		8.34		6.4		6.4		End Fill	
12/05/2018		14:46:06		58		0.0		8.34		6.4		6.4		Start Pressure Test	
12/05/2018		14:47:03		1241		0.0		8.34		6.4		6.4			
12/05/2018		14:48:33		4072		0.0		8.34		6.4		6.4		High Test	
12/05/2018		14:50:03		4103		0.0		8.34		6.4		6.4			
12/05/2018		14:51:33		4095		0.0		8.34		6.4		6.4			
12/05/2018		14:52:34		4089		0.0		8.34		6.4		6.4		End Pressure Test	
12/05/2018		14:53:03		-13		0.4		8.34		6.4		6.4			
12/05/2018		14:54:33		-7		0.0		8.34		6.6		0.0			
12/05/2018		14:56:03		-8		0.0		8.34		6.6		0.0			
12/05/2018		14:57:33		-7		0.0		8.34		6.6		0.0			
12/05/2018		14:59:03		115		2.3		10.46		6.7		0.1			
12/05/2018		14:59:07		164		2.9		10.67		6.9		0.3		Start Pumping Spacer	
12/05/2018		15:00:33		316		5.5		10.62		14.2		7.7			
12/05/2018		15:02:03		306		5.6		10.44		22.5		16.0			
12/05/2018		15:03:33		180		4.2		10.54		30.4		23.8			
12/05/2018		15:05:03		0		0.0		10.29		34.9		28.4			

Date	Time 24-hr	Pressure PSI	Rate B/M	Density LB/G	Volume BBL	Stage Volume BBL	Message
12/05/2018	15:06:33	-9	0.2	9.93	35.0	0.0	
12/05/2018	15:08:03	294	5.2	11.92	38.6	3.7	
12/05/2018	15:08:19	316	5.2	11.72	40.0	5.1	Start Mixing Lead Slurry
12/05/2018	15:08:20	276	5.2	11.72	40.1	5.2	Mud Balance Density @ 14.5ppg
12/05/2018	15:09:33	84	3.1	11.12	45.4	10.4	
12/05/2018	15:11:03	-6	1.2	12.84	48.7	13.8	
12/05/2018	15:12:33	-7	0.0	10.75	48.8	13.8	
12/05/2018	15:14:03	34	2.0	11.94	49.5	14.5	
12/05/2018	15:15:33	190	5.3	11.57	56.8	21.8	
12/05/2018	15:17:03	277	6.2	11.56	65.0	30.1	
12/05/2018	15:18:33	279	6.1	11.62	74.2	39.3	
12/05/2018	15:20:03	272	6.2	11.59	83.5	48.6	
12/05/2018	15:21:33	256	6.1	11.54	92.7	57.7	
12/05/2018	15:23:03	319	6.7	11.58	102.7	67.7	
12/05/2018	15:24:33	315	6.7	11.60	112.7	77.8	
12/05/2018	15:26:03	325	6.7	11.61	122.8	87.9	
12/05/2018	15:27:33	333	6.7	11.66	132.9	98.0	
12/05/2018	15:29:03	336	6.7	11.54	143.0	108.0	
12/05/2018	15:30:33	346	6.7	11.57	153.1	118.1	
12/05/2018	15:32:03	348	6.7	11.54	163.2	128.2	
12/05/2018	15:33:33	346	6.7	11.58	173.2	138.3	
12/05/2018	15:35:03	354	6.7	11.60	183.3	148.4	
12/05/2018	15:36:33	345	6.7	11.57	193.4	158.4	
12/05/2018	15:38:03	349	6.7	11.61	203.5	168.5	
12/05/2018	15:39:33	363	6.7	11.61	213.6	178.6	
12/05/2018	15:41:03	354	6.7	11.61	223.7	188.7	
12/05/2018	15:42:33	365	6.7	11.62	233.7	198.8	
12/05/2018	15:44:03	355	6.7	11.62	243.8	208.9	
12/05/2018	15:45:33	350	6.7	11.60	253.9	219.0	
12/05/2018	15:47:03	360	6.7	11.60	264.0	229.1	
12/05/2018	15:48:33	350	6.7	11.60	274.1	239.2	
12/05/2018	15:50:03	358	6.7	11.68	284.2	249.3	
12/05/2018	15:51:33	128	3.5	11.62	293.8	258.8	
12/05/2018	15:53:03	38	1.8	11.68	299.5	264.6	
12/05/2018	15:54:04	-2	0.2	12.32	301.4	266.4	End Lead Total Vol = 262bbls
12/05/2018	15:54:33	4	0.0	12.29	301.4	0.0	
12/05/2018	15:54:57	4	0.0	12.23	301.4	0.0	Start Mixing Tail Slurry
12/05/2018	15:56:03	151	3.0	15.66	303.5	2.1	
12/05/2018	15:57:33	272	4.2	15.73	308.9	7.5	
12/05/2018	15:59:03	274	4.2	15.78	315.3	13.9	
12/05/2018	16:00:33	279	4.2	15.78	321.6	20.2	
12/05/2018	16:02:03	443	5.6	15.76	328.9	27.6	
12/05/2018	16:03:33	265	4.2	15.75	335.7	34.4	
12/05/2018	16:05:03	259	4.2	15.63	342.1	40.7	
12/05/2018	16:05:34	224	4.1	15.63	344.3	42.9	End Tail Slurry Total Vol = 42bbls
12/05/2018	16:06:33	15	0.0	15.66	344.6	43.2	
12/05/2018	16:08:03	14	0.0	11.23	344.6	43.2	
12/05/2018	16:09:08	13	3.6	5.37	344.7	43.4	Start Displacement OBH
12/05/2018	16:09:33	13	0.0	9.32	344.9	0.1	
12/05/2018	16:11:03	12	0.0	8.80	345.0	0.1	
12/05/2018	16:12:33	11	0.2	8.71	345.0	0.2	
12/05/2018	16:14:03	142	5.3	9.79	349.9	5.1	
12/05/2018	16:15:33	296	5.2	11.21	357.9	13.1	
12/05/2018	16:17:03	330	5.2	11.03	365.7	20.9	

Date	Time 24-Hr	Pressure PSI	Rate B/M	Density LB/G	Volume BBL	Stage Volume BBL	Message
12/05/2018	16:20:03	313	5.2	11.42	381.4	36.5	
12/05/2018	16:21:33	365	5.7	11.42	389.2	44.4	
12/05/2018	16:23:03	389	5.9	11.42	398.0	53.2	
12/05/2018	16:24:33	389	5.9	11.46	406.9	62.1	
12/05/2018	16:26:03	367	5.9	11.46	415.8	70.9	
12/05/2018	16:27:33	405	5.9	11.46	424.6	79.8	
12/05/2018	16:29:03	376	5.9	11.46	433.5	88.6	
12/05/2018	16:30:33	381	5.9	11.46	442.3	97.5	
12/05/2018	16:32:03	404	5.9	11.46	451.2	106.3	
12/05/2018	16:33:33	379	6.0	11.46	460.1	115.3	
12/05/2018	16:35:03	405	6.0	11.46	469.1	124.3	
12/05/2018	16:36:33	399	6.0	11.46	478.1	133.2	
12/05/2018	16:38:03	387	6.0	11.46	487.1	142.2	
12/05/2018	16:38:30	249	4.5	11.46	489.6	144.8	Slow Rate / Partial Returns @ Shaker
12/05/2018	16:39:33	223	4.5	11.46	494.3	149.5	
12/05/2018	16:41:03	238	4.5	11.45	501.0	156.2	
12/05/2018	16:42:33	241	4.5	11.45	507.7	162.9	
12/05/2018	16:44:03	229	4.5	11.45	514.4	169.6	
12/05/2018	16:45:33	249	4.5	11.45	521.1	176.3	
12/05/2018	16:47:03	239	4.5	11.45	527.9	183.0	
12/05/2018	16:48:33	240	4.5	11.45	534.6	189.7	
12/05/2018	16:50:03	242	4.5	11.45	541.2	196.4	
12/05/2018	16:51:33	248	4.5	11.45	547.9	203.1	
12/05/2018	16:53:03	225	4.5	11.45	554.6	209.8	
12/05/2018	16:54:33	225	4.5	11.45	561.3	216.5	
12/05/2018	16:56:03	333	4.2	11.44	568.0	223.2	
12/05/2018	16:57:33	160	4.2	11.44	574.5	229.7	
12/05/2018	16:59:03	211	4.2	11.44	580.9	236.1	
12/05/2018	17:00:33	159	4.2	11.44	587.2	242.3	
12/05/2018	17:02:03	220	4.1	11.44	593.5	248.6	
12/05/2018	17:03:33	249	4.2	11.44	599.7	254.9	
12/05/2018	17:05:03	154	4.2	11.44	606.0	261.1	
12/05/2018	17:06:33	193	4.2	11.44	612.3	267.4	
12/05/2018	17:08:03	140	4.2	11.43	618.5	273.7	
12/05/2018	17:09:33	147	4.2	11.43	624.8	279.9	
12/05/2018	17:11:03	315	4.2	11.43	631.1	286.2	
12/05/2018	17:12:33	283	4.2	11.43	637.3	292.5	
12/05/2018	17:14:03	207	4.2	11.43	643.6	298.7	
12/05/2018	17:15:33	188	4.2	11.42	649.9	305.0	
12/05/2018	17:17:03	216	4.2	11.42	656.1	311.3	
12/05/2018	17:18:33	150	4.1	11.42	662.3	317.5	
12/05/2018	17:20:03	202	4.1	11.41	668.5	323.6	
12/05/2018	17:21:33	271	3.5	11.41	674.5	329.6	
12/05/2018	17:23:03	258	3.5	9.06	679.7	334.8	
12/05/2018	17:24:33	248	3.5	8.45	685.0	340.1	
12/05/2018	17:25:47	910	0.0	8.92	688.6	343.8	Plug Bumped @ 900psi
12/05/2018	17:25:55	912	0.0	8.93	688.6	343.8	End Displacement Total Vol = 336bbls
12/05/2018	17:26:03	913	0.0	8.94	688.6	343.8	
12/05/2018	17:27:33	936	0.0	8.78	688.6	343.8	
12/05/2018	17:29:03	958	0.0	8.70	688.6	343.8	
12/05/2018	17:30:33	979	0.0	8.66	688.6	343.8	
12/05/2018	17:31:48	884	0.0	8.62	688.6	343.8	Bled Back / Check Floats
12/05/2018	17:32:03	281	0.0	8.61	688.6	343.8	
12/05/2018	17:32:35	2	0.0	8.59	688.6	343.8	Floats Holding / 1.5bbls Back

Well FRONTIER 32-23-26 STATE 431H	Field PURPLE SAG	Job Start Dec/05/2018	Customer WPX	Job Number E7OW-00003
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Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate		Total Slurry 304.0	Mud	Spacer 30.0	N2
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum	Final 0	Average	Bump Plug to 900	Breakdown	Type MPE	Volume 30.0 bbl		Density 10.50 lb/gal
Avg. N2 Percent %	Designed Slurry Volume 304.0 bbl		Displacement 336.0 bbl	Mix Water Temp 55 degF	Cement Circulated to Surface? ☐		Volume bbl	
					Washed Thru Perfs ☐		To ft	
Customer or Authorized Representative CHRIS JONES			Schlumberger Supervisor Tim Hammer			Circulation Lost ☐		Job Completed ☒
						-		-