

**NM OIL CONSERVATION
ARTESIA DISTRICT**

NOV 29 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

WELL APL NO. 30-015-45274 RECEIVED	
5. Indicate Type of Lease STATE ☒ FEE ☐	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name FRONTIER 32-23-26 STATE 431H	
8. Well Number 431H	
9. OGRID Number 246289	
10. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)	

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.) 1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐ 2. Name of Operator RKI EXPLORATION & PRODUCTION, LLC 3. Address of Operator 3500 ONE WILLIAMS CENTER, MD: 35, TULSA, OK 74172 4. Well Location Unit Letter <u>P</u> : <u>248</u> feet from the <u>S</u> line and <u>350</u> feet from the <u>E</u> line Section <u>32</u> Township <u>23S</u> Range <u>26E</u> NMPM County <u>EDDY</u> 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,463 RKB	
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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: ☐
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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: 11-29-2018
 Size of Pipe: 9 5/8"
 Weight: 40#; Grade: J-55
 Slurry: 403 sx; Class: C; Volume (cu.ft.): 111.3
 Centralizers: 16
 Depth of Hole at 1,815' MD
 Float Shoe set at 1,798' MD
 Float Collar set at 1,755' MD
 Tested Casing for 35 mins to max of 2240 psi

Spud Date:

11-26-2018

Rig Release Date:

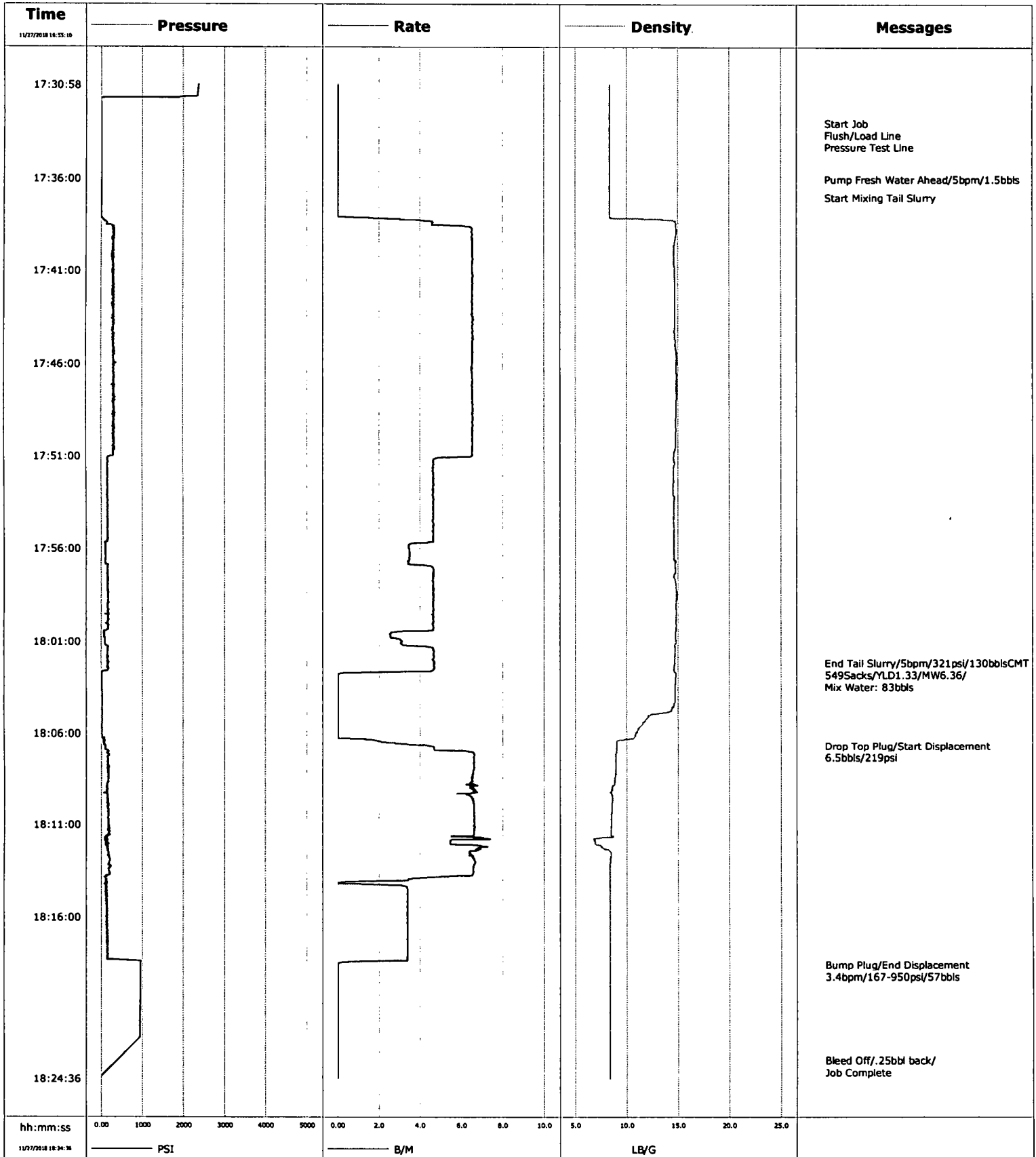
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Lorri Kline Digitally signed by Lorri Kline
DN: cn=Lorri Kline, o=NW
Energy, email=LORRI.KLINE@WPXENERGY.COM, c=US
Date: 2018.12.02 09:23:04 -0500 TITLE REGULATORY TECH II DATE 12-02-2018

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

For State Use Only
 APPROVED BY: Rusty Kline TITLE Business Ops Spec DATE 11-30-2018
 Conditions of Approval (if any):

Well	Frontier 32-23-26 State 431H	Client	WPX Energy Production
Field	Phanton	SIR No.	2867905
Engineer	Jerry R McVay Jr	Job Type	Cem Surface Casing
Country	United States	Job Date	11/27/2018



				Customer WPX Energy Production		Job Number 2867905													
Well Frontier 32-23-26 State 431H			Location (legal) 0631787636		Schlumberger Location Hobbs, NM		Job Start Nov/26/2018												
Field Phanton		Formation Name/Type		Deviation 0 deg	Bit Size 17.5 in	Well MD 408.7 ft	Well TVD 408.7 ft												
County Eddy		State/Province NM		BHP psi	BHST 84 degF	BHCT 80 degF	Pore Press. Gradient lb/gal												
Well Master 0631787636		API/UWI 3001545270000																	
Rig Name H&P 265		Drilled For Oil and Gas		Service Via Land		Casing/Liner													
Offshore Zone		Well Class New		Well Type Development															
Drilling Fluid Type Fresh Water		Max. Density 8.34 lb/gal		Plastic Viscosity 1.000 cP		Tubing/Drill Pipe													
Service Line Cementing		Job Type Cem Surface Casing																	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection Single Cement head		Perforations/Open Hole													
Service Instructions Provide service and equipment to cement 409' of 13 3/8" Surface Casing inside of 17 1/2" Open Hole with 97 bbls of Tail. Top of Tail @ Surface.				Top, ft		Bottom, ft		shot/ft		No. of Shots		Total Interval ft							
				ft		ft													
				ft		ft													
				ft		ft													
				Treat Down Casing		Displacement 56.8 bbl		Packer Type None		Packer Depth ft									
				Tubing Vol. bbl		Casing Vol. 63.9 bbl		Annular Vol. 52.3 bbl		Openhole Vol. bbl									
Casing/Tubing Secured ☒				1 Hole Vol. Circulated prior to Cement ☒				Casing Tools				Squeeze Job							
Lift Pressure 160 psi				Shoe Type Guide				Squeeze Type											
Pipe Rotated ☐ Pipe Rediprocated ☐				Shoe Depth 408.7 ft				Tool Type											
No. Centralizers 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 Nov/26/2018 16:00				Arrived on Location Nov/26/2018 12:00				Leave Location Nov/26/2018 20:00				Collar Type Float				Tail Pipe Depth ft			
				Collar Depth 367.6 ft				Sqz. Total Vol. bbl											
Date		Time 24-hr clock		Treating Pressure PSI		Flow Rate B/M		Density LB/G		Volume BBL		Message							
11/27/2018		16:55:10		1		0.0		8.37		3.1									
11/27/2018		17:31:10		2360		0.0		8.37		6.0									
11/27/2018		17:31:40		1905		0.0		8.37		6.0									
11/27/2018		17:32:10		8		0.0		8.37		6.0									
11/27/2018		17:32:40		9		0.0		8.37		6.0									
11/27/2018		17:33:00		8		0.0		8.37		6.0		Start Job							
11/27/2018		17:33:10		8		0.0		8.37		6.0									
11/27/2018		17:33:30		8		0.0		8.37		6.0		Flush/Load Line							
11/27/2018		17:33:40		8		0.0		8.37		6.0									
11/27/2018		17:34:00		8		0.0		8.37		6.0		Pressure Test Line							
11/27/2018		17:34:10		8		0.0		8.37		6.0									
11/27/2018		17:34:40		8		0.0		8.37		6.0									
11/27/2018		17:35:10		7		0.0		8.37		6.0									
11/27/2018		17:35:40		8		0.0		8.37		6.0									
11/27/2018		17:36:00		7		0.0		8.37		6.0		Pump Fresh Water Ahead/5bpm/1.5bbls							
11/27/2018		17:36:10		7		0.0		8.37		6.0									
11/27/2018		17:36:40		7		0.0		8.37		6.0									
11/27/2018		17:37:00		7		0.0		8.37		6.0		Start Mixing Tail Slurry							
11/27/2018		17:37:10		8		0.0		8.37		6.0									
11/27/2018		17:37:40		8		0.0		8.37		6.0									
11/27/2018		17:38:10		31		1.8		9.26		6.0									

Well Frontier 32-23-26 State 431H			Field Phanton		Job Start Nov/26/2018	Customer WPX Energy Production	Job Number 2867905
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
11/27/2018	17:39:10	284	6.5	14.75	11.5		
11/27/2018	17:39:40	293	6.5	14.61	14.7		
11/27/2018	17:40:10	302	6.5	14.59	18.0		
11/27/2018	17:40:40	290	6.5	14.61	21.3		
11/27/2018	17:41:10	298	6.5	14.64	24.5		
11/27/2018	17:41:40	306	6.5	14.67	27.8		
11/27/2018	17:42:10	315	6.5	14.70	31.0		
11/27/2018	17:42:40	306	6.5	14.71	34.3		
11/27/2018	17:43:10	305	6.5	14.70	37.6		
11/27/2018	17:43:40	315	6.6	14.70	40.8		
11/27/2018	17:44:10	308	6.5	14.64	44.1		
11/27/2018	17:44:40	278	6.6	14.66	47.3		
11/27/2018	17:45:10	310	6.5	14.74	50.6		
11/27/2018	17:45:40	300	6.5	14.82	53.9		
11/27/2018	17:46:10	319	6.5	14.78	57.1		
11/27/2018	17:46:40	326	6.5	14.82	60.4		
11/27/2018	17:47:10	262	6.5	14.81	63.6		
11/27/2018	17:47:40	319	6.5	14.81	66.9		
11/27/2018	17:48:10	321	6.5	14.79	70.1		
11/27/2018	17:48:40	330	6.5	14.79	73.4		
11/27/2018	17:49:10	297	6.5	14.74	76.7		
11/27/2018	17:49:40	300	6.5	14.76	79.9		
11/27/2018	17:50:10	330	6.5	14.72	83.2		
11/27/2018	17:50:40	320	6.5	14.69	86.4		
11/27/2018	17:51:10	166	4.7	14.55	89.6		
11/27/2018	17:51:40	155	4.6	14.55	91.9		
11/27/2018	17:52:10	157	4.6	14.55	94.2		
11/27/2018	17:52:40	156	4.6	14.49	96.5		
11/27/2018	17:53:10	141	4.6	14.55	98.8		
11/27/2018	17:53:40	157	4.6	14.57	101.1		
11/27/2018	17:54:10	164	4.6	14.57	103.4		
11/27/2018	17:54:40	162	4.6	14.56	105.7		
11/27/2018	17:55:10	159	4.6	14.61	108.0		
11/27/2018	17:55:40	163	4.6	14.61	110.3		
11/27/2018	17:56:10	106	3.5	14.60	112.1		
11/27/2018	17:56:40	102	3.4	14.68	113.9		
11/27/2018	17:57:10	158	4.6	14.74	115.9		
11/27/2018	17:57:40	161	4.6	14.67	118.2		
11/27/2018	17:58:10	166	4.6	14.80	120.5		
11/27/2018	17:58:40	161	4.6	14.82	122.8		
11/27/2018	17:59:10	160	4.6	14.78	125.1		
11/27/2018	17:59:40	175	4.7	14.78	127.4		
11/27/2018	18:00:10	178	4.6	14.77	129.7		
11/27/2018	18:00:40	72	2.5	14.75	131.7		
11/27/2018	18:01:10	96	3.1	14.65	133.1		
11/27/2018	18:01:40	158	4.6	14.68	135.2		
11/27/2018	18:02:10	182	4.7	14.62	137.5	End Tail Slurry/5bpm/321psi/130bblsCMT	
11/27/2018	18:02:30	180	4.7	14.61	139.1	549Sacks/YLD1.33/MW6.36/	
11/27/2018	18:02:40	19	2.5	14.62	139.8		
11/27/2018	18:02:45	21	0.1	14.79	140.0	Mix Water: 83bbls	
11/27/2018	18:03:10	21	0.0	14.73	140.0		
11/27/2018	18:03:40	20	0.0	14.69	140.0		
11/27/2018	18:04:10	19	0.0	14.67	140.0		
11/27/2018	18:04:40	19	0.0	14.37	140.0		

Well Frontier 32-23-26 State 431H			Field Phanton		Job Start Nov/26/2018		Customer WPX Energy Production		Job Number 2867905	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message				
11/27/2018	18:05:40	18	0.0	11.25	140.0					
11/27/2018	18:06:10	18	0.0	10.79	140.0					
11/27/2018	18:06:40	94	4.2	9.03	140.8	Drop Top Plug/Start Displacement				
11/27/2018	18:06:50	99	4.7	9.01	141.6	6.5bbls/219psi				
11/27/2018	18:07:10	183	6.6	8.97	143.4					
11/27/2018	18:07:40	161	6.6	8.95	146.7					
11/27/2018	18:08:10	161	6.5	8.94	150.0					
11/27/2018	18:08:40	173	6.5	8.85	153.3					
11/27/2018	18:09:10	143	6.5	8.57	156.6					
11/27/2018	18:09:40	152	6.5	8.61	159.8					
11/27/2018	18:10:10	172	6.6	8.55	163.1					
11/27/2018	18:10:40	161	6.6	8.52	166.4					
11/27/2018	18:11:10	183	6.6	8.48	169.7					
11/27/2018	18:11:40	119	6.4	8.11	172.9					
11/27/2018	18:12:10	122	6.9	7.51	176.0					
11/27/2018	18:12:40	177	6.3	8.47	179.3					
11/27/2018	18:13:10	175	6.6	8.38	182.6					
11/27/2018	18:13:40	219	6.5	8.37	185.9					
11/27/2018	18:14:10	100	0.0	8.37	188.0					
11/27/2018	18:14:40	105	3.4	8.36	189.2					
11/27/2018	18:15:10	114	3.4	8.37	190.9					
11/27/2018	18:15:40	125	3.4	8.36	192.6					
11/27/2018	18:16:10	128	3.4	8.37	194.3					
11/27/2018	18:16:40	134	3.4	8.37	196.0					
11/27/2018	18:17:10	161	3.4	8.37	197.7					
11/27/2018	18:17:40	165	3.4	8.37	199.4					
11/27/2018	18:18:10	167	3.4	8.37	201.0					
11/27/2018	18:18:30	950	0.0	8.37	201.8	Bump Plug/End Displacement				
11/27/2018	18:18:40	947	0.0	8.37	201.8					
11/27/2018	18:18:50	947	0.0	8.37	201.8	3.4bpm/167-950psi/57bbls				
11/27/2018	18:19:10	946	0.0	8.37	201.8					
11/27/2018	18:19:40	946	0.0	8.37	201.8					
11/27/2018	18:20:10	946	0.0	8.37	201.8					
11/27/2018	18:21:10	945	0.0	8.37	201.8					
11/27/2018	18:21:40	944	0.0	8.37	201.8					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 5.2	N2	Mud	Maximum Rate 8.5	Total Slurry 130.0	Mud 0.0	Spacer 1.5	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 2000	Final -5	Average 201	Bump Plug to 950	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %	Designed Slurry Volume 130.0 bbl		Displacement 57.0 bbl	Mix Water Temp 58 degF	Cement Circulated to Surface? ☒	Volume 57.0 bbl		
Customer or Authorized Representative				Schlumberger Supervisor Jerry R McVay Jr	Washed Thru Perfs ☐	To ft		
					Circulation Lost ☐	Job Completed ☒		