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State of New Mexico

Form C-103

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

MIN 13 2019

Energy, Minerals and Natural Resources

Revised July 18, 2013

EMNRD-000 ARTESIA REGISTRATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-44530
5. Indicate Type of Lease STATE [] FEE []
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Alpha SWD
8. Well Number 2
9. OGRID Number 372338
10. Pool name or Wildcat SWD: Silurian-Devonian
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3051 GR

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 SWD
2. Name of Operator NGL Water Solutions Permian LLC
3. Address of Operator 1509 W Wall St, Suite 306, Midland, TX 79701
4. Well Location Unit Letter C : 353 feet from the North line and 2398 feet from the West line
Section 18 Township 23S Range 28E NMPM County Eddy

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 []
Completions Operations
OTHER: []

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date
11/1/2018 R/U casing crews and run injection string consisting of 121 jts (5,157') of 5-1/2" 17# P110 TCPC and 339 jts (8,383') of 7" 26# P110 LTC Duoline internally coated pipe. The permanent packer set at a depth of 13,540' Pipe was ran with rig. 11/30/2018- Acid Job conducted consisting of 60,000 gal (1,428.6 bbls) of 20% HCl fluid.
11/6/18 Mechanical Integrity Test was conducted and witnessed by Gilbert Cordero at the NMOCD Artesia office.

Spud Date: 9/16/18

Rig Release Date: 11/2/18

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

SIGNATURE Sarah Jordan Manager of Reg Compliance TITLE DATE 3-7-19
Type or print name Sarah Jordan E-mail address: sarah.jordan@nglep.com PHONE: 432/685-0005

APPROVED BY: Accepted for record NMOCD TITLE duplicate DATE



ALPHA SWD #2



TUBULARS						WELL INFORMATION		DIRECTIONS TO SITE		PROPOSED INJECTION INTERVAL		
STRING DETAILS (Size, WPF, Grade, Conn)	HOLE SIZE (in.)	O.D. (in.)	I.D. (in.)	HOLE DEPTH (ft)	SET DEPTH (ft)	RIG:	Frontier #32	From Carlsbad, NM: Head south on Hwy 285 travel 10 miles, turn left onto Carrasco Rural Road and location will be on left (south) side 1/4 mile.		Permitted Injection Interval: Silurian, Fusselman.		
20" 94# J-55 BTC	24	20,000	19,124	502'	472'	API #:	30-015-44530					
13.375" 58# L-80 BTC	17.5	13,375	12,415	2,535'	2,515'	COUNTY:	Eddy					
9.625" 53.5# HCL-80 BTC	12.25	9,625	8,535	9,261'	9,234'	S/T/R:	Sec. 18 235 28E					
7.625" 38.0# Q125 HDL/7.625" 39# P110 HDL	8.5	7,625	-	13,620'	13,593'	LATITUDE:	32.311638					
Open Hole Injection Interval	6.5	-	-	14,747'	-	LONGITUDE:	-104.127299					
						SPUD DATE:	9/15/2018					
						TD DATE:	10/29/2018					
STRING COMPONENTS					GL: 3051' KB: 3083'		HOLE INFORMATION / GEO TOPS		CEMENT INFO		PROPOSED INJECTIN STRING	
COMPONENT	O.D.	I.D.	Top	Btm			24" Surface Hole T.D. = 502'		155 bbls, 640 sx of 14.8 ppg 1.357 h3/sk yield		9000' of 7" 26#/ft P110 TCPC Duoline Internally Coated Injection Tubing	
20" Surface Casing Shoe	20,000	19,124	-	472'			Castile - 890'		Estimated TOC @ Surface			
Weatherford Stage Tool (Top)	11,250	8,500	2,433'	2,435'			Delaware Mtn Group (SH marker) - 2,443'		618 bbls, 1951 sx of 13.7 ppg 1.778 h3/sk yield			
13-3/8" 1st Intermediate Casing Shoe	13,375	12,415	-	2,515'			Lamar Limestone - 2,447'		Got 174 bbls of cement back to surface		4750' of 5-1/2" 17#/ft P110 TCPC Duoline Internally Coated Injection Tubing	
Weatherford Stage Tool (bottom)	11,250	8,500	5,536'	5,538'			Bell Canyon - 2,483'		Estimated TOC @ Surface			
Weatherford Annular Casing Packer (ACP)	-	9,625	5,538'	5,562'			17.5" 1st Int. Hole T.D. = 2535'		Stage 1 - 245 bbls, 1120sx of 15.6 ppg 1.23 h3/sk yield			
7.625" Liner Hanger	8,535	-	8,767'	8,781'			Cherry Canyon - 3,251'		Displaced with 650 bbls of system mud, bumped plug @ 2000 psi. Roats held		7-5/8" x 5" TCPC Permanent Packer with High Temp Elastomer and full Inconel 925 trim	
9-5/8" 2nd Intermediate Casing Shoe	9,625	8,535	-	9,234'			Briehy Canyon - 5,009'		Got 20 bbls, 91 sx to surface after opening tool and circulating			
							Bone Spring (Leonard) - 5,904'		Stage 2 - 190 bbls, 625 sx of 13.7 ppg 1.71 h3/sk yield			
							Bone Spring Lime 1 - 5,926'		Displaced with 391 bbls of OBM, bumped plug @ 1280 psi, tool held psi		Had trouble at T.D. with flows and losses (light window) left a 9.4 ppg mud in the hole before tripping out.	
							Bone Spring Sand 1 - 6,859'		Got 40 bbls, 130 sx to surface after circulating OBM			
							Bone Spring Lime 2 - 7,138'		Stage 3 - 144 bbls, 455 sx of 13.7 ppg 1.78 h3/sk yield			
							Bone Spring Sand 2 - 7,350'		Displaced with 172 bbls of system mud, bumped plug @ 740 psi, tool held psi			
							Bone Spring Lime 3 - 7,886'		Got 10 bbls, 30 sx to surface after circulating.			
					Bone Spring Sand 3 - 8,920'							
					Wolcamp - 9,168'		12.25" 2nd Int. Hole T.D. = 9261'					
					Permian - 10,694'		96 bbls, 380 sx of 13.2 ppg, 1.42 h3/sk NeoCem					
					Strawn - 10,982'		Displaced with calculated 348 bbls of 11.6 ppg OBM					
					Atoka - 11,453'		Got 5 bbls of cement to surface after setting hanger and circulating.					
					Morrow - 11,704'							
					Morrow LS - 11,759'							
					Morrow Clastic - 11,955'							
					Mississippian Shale - 12,831'							
					Barnett - 12,893'							
					Miss Limestone - 13,101'							
					Woodford - 13,418'							
					8.5" 3rd Int. Hole T.D. = 13620'							
					Silurian Carbonate - 13,924'							
					Fusselman - 14,136'							
					Mentoyo - 14,588'							
					6.5" Injection Hole T.D. = 14747'							

IPT PERSONNEL: Johnny Musso (Field Ops Manager), Stacy Wimmer (Field Ops Manager), Trevor Smith (Drilling Engineer)
 IPT WSS: Bill Moodie, Kevin Stimson, Scott Swanke, Darrin Pitts, Jeff Petty, Jackson Wehr

