Submit I Copy To Appropriate District	State of New Me	Red	ceived 8/07/2018			
Office	Energy, Minerals and Natu		Form C-10 AOCD Dist 2 Revised July 18, 20			
<u>District 1 – (575)</u> 393-6161 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Nati	iai Nesources	WELL API NO.	13		
District II - (575) 748-1283	OIL CONSERVATION	111 / 15 11 11 11	30-015-44416			
811 S. First St., Artesia, NM 88210 District III - (505) 334-6178	1220 South St. Fra		5. Indicate Type of Lease			
1000 Rio Brazos Rd., Aztec, NM 87410 District IV - (505) 476-3460	Santa Fe, NM 87		STATE FEE S 6. State Oil & Gas Lease No.			
1220 S. St. Francis Dr., Santa Fe, NM 87505			o. State Oil & Gas Lease No.			
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT" (FORM C-101) FO	JG BACK TO A	Lease Name or Unit Agreement Name Striker 2 SWD	;		
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well Other: Devonian	niection	8. Well Number #1	\exists		
2. Name of Operator NGL Water Solutions Permian LL			9. OGRID Number 372338			
3. Address of Operator			10. Pool name or Wildcat	\dashv		
1509 W Wall St, Ste 306, Midland	, TX 79701					
4. Well Location						
Unit Letter_D_:10						
Section 23	Township 24S Ra 11. Elevation (Show whether DR	nge 31E	NMPM County Eddy			
	3564.62 GR	KKB, K1, GK, etc.)				
12. Check A	Appropriate Box to Indicate N	ature of Notice, R	eport or Other Data			
NOTICE OF IN	ITENTION TO:	SUBS	EQUENT REPORT OF:			
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING [
TEMPORARILY ABANDON	CHANGE PLANS X	COMMENCE DRILL	_]		
PULL OR ALTER CASING X DOWNHOLE COMMINGLE	MULTIPLE COMPL	CASING/CEMENT .	IOB []			
CLOSED-LOOP SYSTEM						
OTHER: Side Trac	k Original Wellbore	OTHER:]		
			_			
13. Describe proposed or comp	leted operations. (Clearly state all	pertinent details, and g	give pertinent dates, including estimated of			
13. Describe proposed or composed of starting any proposed we proposed completion or rec	leted operations. (Clearly state all ork). SEE RULE 19.15.7.14 NMAC ompletion.	pertinent details, and g	_			
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*SEE ATTACHED CONDITIONS OF APPROVAL

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen Cabinet Secretary

Matthias Sayer Deputy Cabinet Secretary Heather Riley, Division Director Oil Conservation Division



Underground Injection Control Program

August 7, 2018

RE: NGL Water Solutions Permian, LLC
Operator Proposed Changes to the Well Design for the Striker 2 SWD 001
API 30-015-44416; UL D, Sec 23, T24S, R31E, NMPM, Eddy County, New Mexico

Conditions of approval for proposal to sidetrack above referenced well:

- 1. The approved tubing in the SWD order (SWD-1721) for the 7 5/8-inch FJ casing is 4 ½-inch diameter. This shall not be changed.
- 2. NGL Solutions (the operator) shall review the AOR and ½-mile notification information provided in the C-108 application, and provide a letter identifying any changes in this information based on the new bottom hole location of this well (the lateral relocation by an estimated 100 feet).
- 3. Prior to commencing injection operation, the operator shall provide copies of a CBL to the District and to the Engineering Bureau (Santa Fe) for the side track, at a minimum, starting at the tie-in with the 9 5/8-inch casing and continuing to the shoe of the 7 5/8-inch FJ casing. After receipt of the CBL by the Division, the operator shall be required to obtain the approval of the District prior to commencing injection.
- 4. The frequency of the internal mechanical integrity testing (MIT) shall be changed from every five (5) year interval, to annually, until further notice.
- 5. The Bureau shall retain these conditions to be included in the amended order once the operator submits the final formation top depths for correction of the interval described in order SWD-1721.

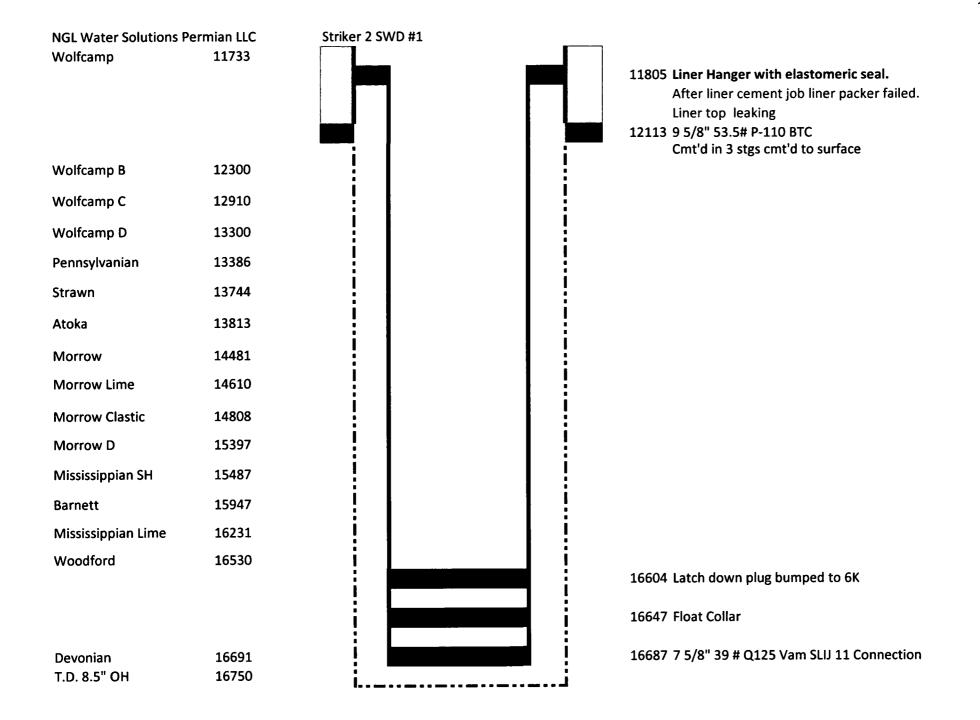
Be advised that the Division has concerns with the sidetrack occurring in the lower Bone Spring and a successful cementing of the casing is vital for approved use of this well. Of particular concern is, previously permitted production wells in the 3rd Bone Spring formation in close proximity to this well bore.

If there are any questions or concerns, please contact me or the Santa Fe Engineering Bureau.

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575-748-1283 X108

OCD approval does not relieve the operator of responsibility should their operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other local, state, federal, rules, regulations or laws.

Window - 11238 - 11225			;				
WF Whipstock	WF Whipstock 11239						
Bridge Plug	11240)					
9-5/8" Collar - 11243'	11258		11258			Dania	
DP - 4" 14ppf S135, XT39 Conn	11426	•		Resin	R		
7-5/8" 39ppf, Q125 FJ, 2nd Liner Top	11599	ı					
2nd Liner				┑╽			
Cement Retainer	11775						
7-5/8" 39ppf Q125, FJ Liner PBR	11,805			\vdash	—{		
Liner Packer Leaking	11822						
Bridge Plug	11839						
Wolfcamp	11733'	MD					
9-5/8" 53.5#, P110, BTC Shoe	12113						
Penn	13386'						
Strawn	13744'						
Atoka	13815'		1				
Morrow	14481'		i	1			
Morrow Lime	14610'		•				
Morrow Clastic	14808'		!	į.			
Morrow D	15,397'		Ì		Ī		
Mississippian SH	15,487'		:				
Barnett	15,947'		!				
Mississippian Lime	16,231'		1				
Woodford	16,530'		ГС				
Devonian	16,691'		FC				
7-5/8", Q125, 39ppf,	16687'		FS				
Vam SLJ11 Conn	d Int TD 16750'		i				



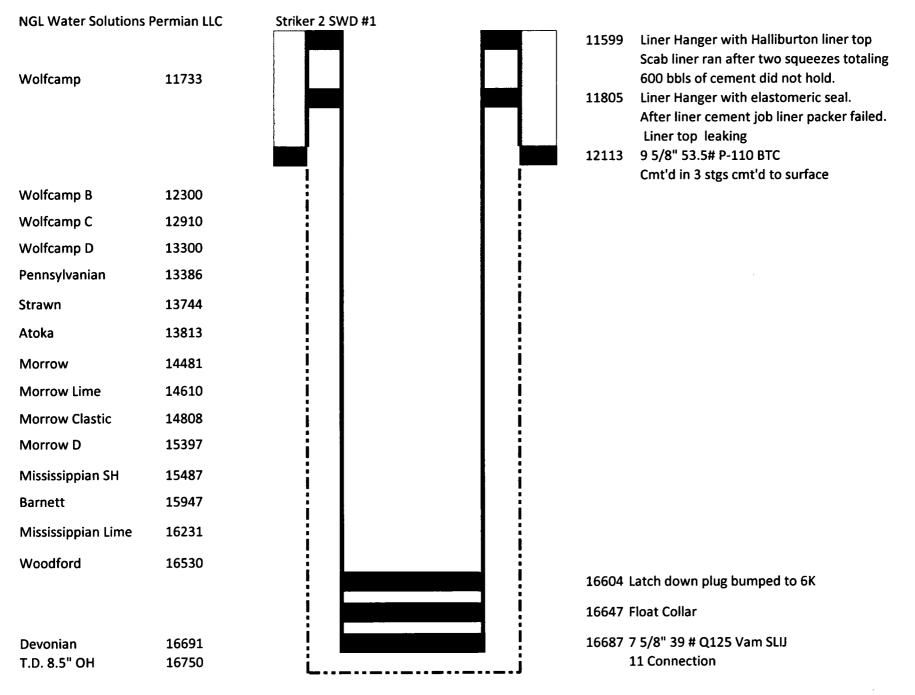
NGL Water Solutions Pe	rmian LLC	Striker 2 SWD #1		
Wolfcamp	11733		11805	Liner Hanger with elastomeric seal. After liner cement job liner packer failed. Liner top leaking 9 5/8" 53.5# P-110 BTC Cmt'd in 3 stgs cmt'd to surface
Wolfcamp B	12300	i i		Cint a in 3 sigs cint a to surface
Wolfcamp C	12910			
Wolfcamp D	13300			
Pennsylvanian	13386			
Strawn	13744			
Atoka	13813			
Morrow	14481			
Morrow Lime	14610			
Morrow Clastic	14808			
Morrow D	15397	<u> </u>		
Mississippian SH	15487	<u> </u>		
Barnett	15947	i i		
Mississippian Lime	16231	i l		
Woodford	16530			Latch down plug bumped to 6K Float Collar
Devonian	16691		16687	7 5/8" 39 # Q125 Vam SLIJ 11 Connection
T.D. 8.5" OH	16750	1		

Attempted squeeze jobs on liner top. Two jobs under retainers. Total bbls placed 600 with 83 circulated out. Total net bbls placed 537 bbls. Ran bond log after drilling out float equipment. There is cement bonding in the liner below the 9 5/8" casing shoe.

Result: Liner top still not sealed

7/6/2018

7/0/2018
Pump 20 bbls brine, pump 12 bbls acid, pump 48 bbls acid, pump 12 bbls acid, pump 20 bbls brine, pumped 200 bbls
710 sacks of 15.8 ppg cement, pump 20 bbls fresh H20, pumped 143 bbls 14.2 ppg mud, sting out of retainer, well
flowing, pump 800 bbls mud, observed 63 bbls cement to surface, shut in well with 1,400 psi.
7/12/2018
Circulated btms up. Displaced string with 180bbls brine and retainer setting depth (11,703').
Set retainer at 11808 and rigged up Halliburton pumping lines.
Safety mtg with Halliburton crew, Latshaw crew, IPT personnel, Wford tool hand, ADA crew.
Commenced job by psi test to 7,000 psi followed by injection rate as follow: .5 bpm broke @ 3.097 psi pumped
1 bbl, 1 bpm broke @ 3,020 pumped 1 bbl, 1.5 bpm broke @ 3,046 pumped 1.8 bbls, 2 bpm broke @ 3,152
pumped 2.1 bbls, 2.5 bpm broke @ 3,207 pumped 2.9 bbls, 3 bpm broke @ 3,352 pumped 2.9 bbls, 3.5 bpm
broke @ 3,462 pumped 3 bbls, 4 bpm broke @ 3,526 pumped 2.8 bbls, 4.5 bpm broke @ 3,606 pumped 6.1 bbls
5 bpm broke @ 3,725 pumped 3.9 bbls, 5.5 bpm broke @ 4,039 pumped 6.3. Total bbls pumped away 35.5 bbls.
NOTE: First 10 bbls with out back psi to check communication, looked good, applied 2,000 psi on the back side.
Commenced cement job by pumping 1,550 sks of 15.6# 1.587 yield 6.67 gal/sk 438 bbls slurry cement @ 4.6 bpm
with pressure started @ 4,000 psi and decreasing to 2,900 through-out the job, followed by 170 bbls of 15.3#
WBM pumping 20 bbls @ 1.7 bpm up to 3 bpm with 2,200 psi decreasing to 1,600 psi. Shut down pumps
and pressure decreased to 392 psi. No indication of any pressure increase during job.
7/15/2018
Commenced reaming back to 11,808 with 2-10k WOB. At 11,808' continued to drill on cement retainer with 2-25k WOB without
achieving any torque. Stopped drilling and began reciprocating and rotating on top of retainer. After several attempts of working
the string the torque began to fluctuate between 7 - 14k ft/lbs. Continued working string applying 10-30k WOB until steady
torque and ROP was achieved. Continued drilling until 11,810' broke thru and washed to 11,838.
Tripped in hole from 11,838' to 14,076'. No indications of any obstructions being pushed down hole.
Tripped in hole from 14,076' and tagged up at 16,404'.
Broke circulation and washed down from 16,404' to landing collar at 16,592'. 50' fill with no issue to wash away.



Running scab liner with Halliburton expandable casing liner top.

Result: Liner top sealed but still have persistent gas leak where scab liner is stabbed into the PBR of the lower liner.

7/21/2018 Scab liner cement job

Commenced cement job by psi testing lines to 8,000 psi (Replaced 2 valves) follow by 5 bbls of FW followed by 73 sks of 15.4# 1.52 Yield 7.76 gal/sx 10 bbls slurry of Tuned Spacer followed by 50 sks of 15.6# 1.58 Yield 6.65 gal/sk 16 bbls slurry of Primary Cement pumping @ 3 bpm. Dropped dart and displaced with 5 bbls of 15.3# mud followed by 10 bbls of Tuned Spacer III followed by 207 bbls of 15.3# mud pumped @ 6 bpm with 1,400 psi Dart went through hanger @ 207 bbls pressure dropped to 620 psi followed by 8 bbls of 15.3# mud with 620 psi bumped plug @ 04:47 hrs to 900 psi. Total displaced 215 bbls.

Set hanger and got slight amount of cement back.

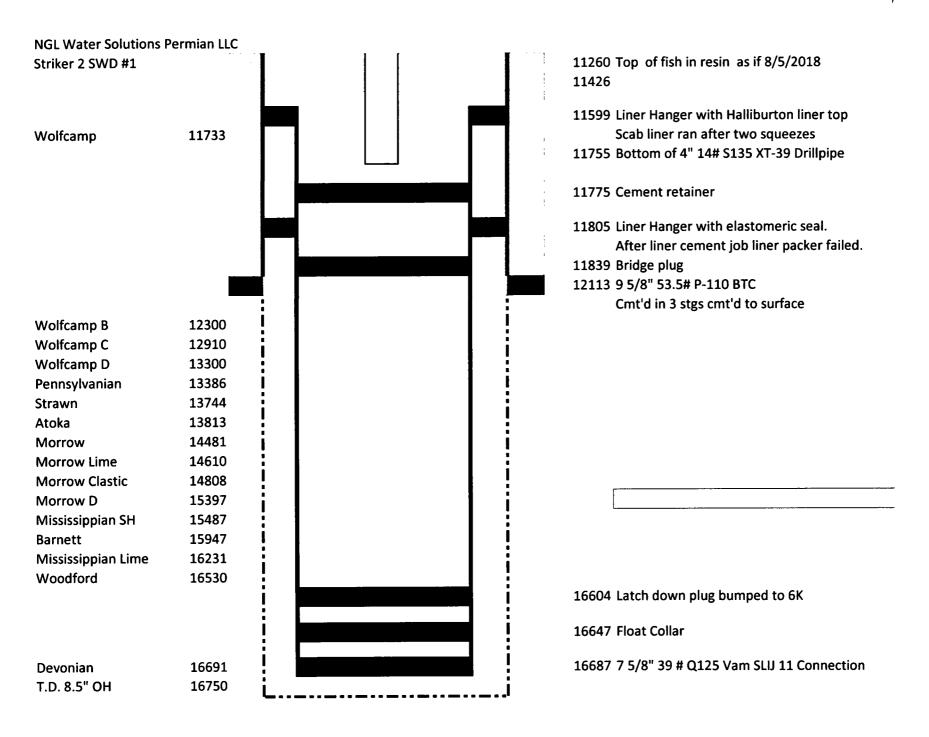
7/25/2018

Displaced wellbore with FW pumping 4,700 strokes pumping 230 gpm with 2,200 psi, with psi decreasing as 15.3# mud exit
the wellbore FCP @ 1,600 psi pumping 300 gpm. Flow check for 15 min No FLOW well static.

RIH F/ 8,400' T/ 11,762' Tagged. TOL @ 11,603' seen a small bubble as went through Polish Bore tieback Receptacle

Commenced to washed down F/ 11,762' T/ 11,810'. Tagged some really hard to drill @ 11,764' - 11,766' WOB up
to 15K with 220 diff pumping 268 gpm and 20 - 35 RPM, it felt like FC possibly, able to some what wash down to
11,810 with not much trouble, Had a new driller on rig took a little longer to make a hook, notice some flow

Trouble shoot with derrick man, went to shakesr everything shut off - pumps off well Flowing. Shut well in with ADA and rotating head was leaking, Close upper pipe rams with 5" DP Close super choke opened HCR with 1,100 casing pressure.



Attempted to squeeze PBR junction between the scab liner and lower liner.

Result: Due to an error in displacement calculation the resin was incorrectly placed and flash set before we could circulate it out. Drillpipe is stuck in hole with top at 11260'. Have tried to wash over with limited success (made 12') and attempted to mill out pipe and resin with no better results made 3' using 2 mills.

7/30/2018

Pump "Well-Loc" and flushes down DP, sting into CCR with 20K set down @ 11,727', begin pumping and at 1,200 psi observed returns, with pressure dropping to 250 psi. Set down to 25K on retainer and try pumping with returns observed. Shut down, continue to set down with decrease in weight on CCR. Pick up 5" single DP and continue to RIH, pick up 15' pup joint and RIH to 11,771', observed 20K set down on CCR Begin pumping with Halliburton, observed annular and DP pressure continuing to raise to 4,900 psi, with no injection rate. Decision to shut VBR's and try to inject @ 5,800 PSI with no results. Sting out and try to circulate out "Well-Loc, unable to get returns 4,500 @ .5 bbl/per minute, pick up and observed overpull from 220K string weight to 320K overpulls, work pipe with no movement, unable to circulate

Continue to work pipe, calling into Latshaw to approve to pull up to 550K with toolpusher running rig, pull up to 550K, not movement, lay out 15' pup joint, pick up single 5" DP to work pipe, work pipe from 220K to 350K with no results while awaiting Dialog wireline "freepoint tools"

8/3/2018

Washed and reamed down over fish at 11,243.81' and continued to 11,254.56'. Observed torque spikes of 12-16k ft-lbs with pipe stalling.

Attempted to wash over fish with no luck, made it to 11,255.75' commenced to apply weight 2K up to 8K with 80 RPM and 200 gpm with 695 psi, sat there for 30 min with no progress, adjusted parameters up to 10 WOB with no luck, PU and we got hung up @ 11,251' PU to 340K pumping 400 gpm with 2,100 psi work pipe free, continue to work pipe with 255 - 400 gpm and 1,125 - 2,200 psi as we circulate sweep surface to surface with 7,200 strokes. Condition mud MW 15.2 in/out

8/5/2018

PU last stand and washed down to bottom, tagged @ 11,257.47' pumped high vis sweep and circulate above fish pumping 427 gpm with 2,064 psi, when sweep left bit we commenced to mill ahead with 2 points and 300 gpm with 1,247 psi precautionary increasing weight up to 30K with very little to none diff psi, adjusted parameters to achieve better penetration with no progress being made, continue to adjust parameters. No luck no progress being made in 2 hrs. - no diff with 30K WOB.

Trouble shoot and discuss with Tool hand on site and it was decided to POOH. **Made it to 11,259.6**