

Plug Report

API Well Number:

34-099-2-3157-00-00

Record of Casing, Cementing, Mudding, and Plugging

Well Owner:	R E DISPOSAL LLC	Permit Issued:	06/28/2011
Lease Name:	NORTHSTAR KHALIL (SWIW #11)	Well No.	3
County:	MAHONING	Township:	COITSVILLE
Driller:	UNION DRLG	Status:	PA
Plugging Company	UNKNOWN OWNER	LTD	9580
Logging Company		DTD	9580
Cement Manufacturer	CEMEX	Tool	RTAF
Cement Contractor	C&J ENERGY SERVICES LTD	Class	SWIW
Clay Company		Lat:	0.000000
		Long	0.000000
		DNR Notified?:	Yes
		Reason for Plugging:	Incap. of Prod./Inj.
		Plug_Start:	10/2/2017
		Plug_End:	10/17/2017
		PlugDescription:	CMT
		Clay/Cement Tickets Rec:	Yes

Comment: 10/2/2017) Team Energy moved the work over rig on location to start the plugging operations of this SWIW well. I met with Larry Boone and Arron Wilhite Wellsite Consultant. We discussed the proposed and approved plugging plan of this well. This plugging operation will be a 24 hour operation until the well is plugged. At any time an Inspector is not on location the consultants will notify the Inspector John Fleming of any problems with the plugging process. The cementing contractor will be C&J Energy Services and Renegade Wireline Service will set the Cast Iron Bridge Plug (CIBP) and casing cutters and perforating. Silver Creek will install the flow back equipment. Team Energy ran 8791' of 2-3/8" tubing in the well TD they set the tubing at 8780' . (1st open hole plug) 10/3/2017. C&J Energy Service was on location to pump a 200' foot cement plug in the 9-7/8" well bore. They pumped 211 barrels of water and displaced the 9.6 ppg water out of the well bore. They pumped 19 bbls of class H cement 16.4 ppg 1.06 yld (100 sks). Estimated top of cement (TOC) at 8580'. They pulled 10 joints (383') and reversed circulated with 68 bbls of water to clear tubing received 1 bbl of cement to surface. Installed TIW valve and closed annular wait 8 hours on cement. I received a phone call at 2100 hr. stating that they tagged the cement at 8073' (500') higher than calculated, I called Deputy Chief Dave Claus and discussed this with him, we shut them down until we met in the Uniontown Office and go over the cement calculations before gone forth. We instructed them that they would need to drill out the plug and cement the plug again. 10/3/2017) Team Energy tripped the 2-3/8" tubing out of the well and strapped the tubing which was correct and ran back in the well and tagged the cement at 8673'. The tubing was setting down on the edge of the packers. That gave them a false reading. When that was verified they proceed with their plugging operation. Plug 2) 9-7/8" open hole 10/5/2017) C&J Energy Services broke circulation with 4.5 bbls of water and pumped 300 lbs of gel spacer 25 lbs of cell flake 3 bbls of water followed by 305 sks of class H cement 16.4 ppg 1.06 yld and displaced with 29 bbls of water (8668'- 8060' 608' plug). Wait 9 hrs on cement. Plug 3) 9-7/8" Team Energy tripped in with 2-3/8" tubing and tagged the cement top at 8095' (578' plug). Set tubing at 8070' and broke circulation with 4.5 bbls and pumped the 4th stag plug with 20 sks of class H cement and displaced with 28 bbls of water. Estimated cement top 7894'. Wait 8 hr on cement. 10/6/2017) cement top was tagged at 8095' 0' cement retained from Plug #4). Plug #5) C&J Energy Services pumped 131 bbls bottoms up to balance the well bore. Set tubing at 8095' pumped 25 bbls of water to establish circulation followed by 37 sks of class H cement 16.4 ppg 1.06 yld Displaced with 28 bbls of water. Estimated TOC 7688'. Tripped in well with 2-3/8" tubing and tagged cement at 8006'- (96') plug with 88' inside of 4.5" casing. C&J Well Services circulated 5bbls of water. The annular valves were closed and they performed an 800 lb psi test for 30 minutes. Pressure dropped to 730 psi. Test passed. Tripped 2-3/8" tubing out of the well. Renegade Wireline Service cut the 4.5" casing at 7950'. Team Energy tripped out 191jts of 4.5" casing. 10/8/2017). Renegade Wireline ran a CBL/CCL log inside the 7-5/8" casing from 7900' to surface. This was witness by Inspector Bob Roush. The TOC estimated at 6670'. Renegade Wire Line set a CIBP at 7495'. 10/9/2017) Team Energy ran 7471' of 2-3/8" tubing and pumped 280 bbl of fresh water to displace the well bore for 1-st stage of the 7-7/8" casing plug. C&J Energy Service pumped 140 sks of class H cement 16.4ppg 1.06 yld followed by 27 bbls of displacement. Estimated TOC 6950' shut in wait on cement. Team Energy tripped 2-3/8" tubing back in the well and tagged TOC at 6917'. They tripped the tubing out of the well and Renegade Wire Line set a CIBP at 5495' inside the 7-5/8" casing they tripped out of the hole and ran back in with a perforating gun with depths at 5481'-5485'-5382'-5385' (42) shots, tagged CIBP at 5495'. Team Energy and Baker Hughes tripped in hole with 156 jts of 2-3/8" tubing (4900') set a cement retainer, to perform a squeeze job, pumped 15 bbls of water to establish circulation, stung into retainer and pressure tested to 500 psi good test. 10/10/2017) Team Energy stung back into retainer and C&J Energy Services pumped 5 bbls of water to establish injection rate @ 1500 psi 2.8 bpm and pumped 410 sks of class A cement 15.6ppg 1.18 yld and displaced with 18 bbl of water shut in with 730 psi on the back side wait on cement.(18) hrs. Renegade Wire Line ran a CBL/CCL from 4859' to 3500' no cement bond. 10/11/2017 The decision by (ODNR) Deputy Chief Bob Worstall and Deputy Chief Dave Claus and UIC Manager Andrew Agate and myself is to drill out 7-5/8" casing cement at 4860' to 4900' and drill out the cement retainer at

to 4900' to 5070' and run a new bond log if no cement bond we will consult with Rex and ODNR before moving forward. 10/12-17 /2017 drilling out the cement to 5070'. Renegade Wire Line ran a bond log from 4500' to 5070' no cement bond. ODNR decision is to run a free point at 3815' to find free pipe. KLX Wire Line Service on location to find free pipe. Baker Hughes on location to set 7-5/8" center spear to pull casing. Team Energy pulled 196,000 lbs could not get 7-5/8" casing out of the casing hanger. KLX could not indicate free point at 3818'. The decision by ODNR Deputy Chief Bob Worstall and Deputy Chief Dave Claus was made to set a CIBP at 3800' and cut 7-5/8" casing at 3700' trip casing and run 2-3/8" tubing. Rex Energy pumped 400 bbls of water to balance the well. C&J Energy Service pumped 5 bbls of water followed by 24 sks of class A cement 15.6 ppg 1.18 yld. Displaced with 11 bbls of water estimated TOC 3200'. Team Energy ran 2-3/8 tubing and tagged cement at 3173' (627') plug. C&J Energy Service pumped 190 bbl of Gel spacer 8.6 ppg 3172' to 1120'. C&J Energy Services pumped 108 bbls of water to balance the well followed by 90 sks of class A cement 2% calcium at 15.6 ppg 1.12 yld estimated TOC 925'. Team Energy ran 2-3/8" tubing and tagged TOC at 942' (183') plug. Renegade Wire Line set a 10.75" CIBP at 700'. Team Energy ran 693' of 2-3/8" tubing. C&J Energy Service pumped 1 bbl established circulation and pumped 315 sks of class A cement 2% calcium 15.6 ppg 1.12 yld. Estimated TOC 10' from surface. Check cement top at 15' from surface. 10.750" casing was cut off 6' below surface ID plate was welded on the 10.75" casing tin horn was removed and back filled with lime stone.

Strings

FLD

*Surface Casing Field Entry

CONDITION

New

Bot 1019 Diam 10.75 Top 0 LENGTH Set Dt 9/2/2011

String Comments Casing
Condition, Weight and
Cement Basket

R-3 New 40.5lb pipe, guide shoe, float collar and 15 centralizers

Cement

BOC 0 TOC 0 DT_CM Duration ☒ WITNESSED

CMT_CON UNIVERSAL WELL SERVICES INSPECTOR TOM HILL

CLASS_CMT: Class A Cement SACKS 449 WEIGHT 15.6 YIELD 1.18

Cement1 1/4 sack of unicele, 3% CaCl, .2% foam chch

CLASS_CMT2: SACKS2 WEIGHT YIELD

Cement2

Strings

FLD

*Hole 2 Field Entry

CONDITION

Bot 1025 Diam 13.5 Top 0 LENGTH Set Dt

String Comments Casing
Condition, Weight and
Cement Basket

Cement

BOC 0 TOC 0 DT_CM Duration ☐ WITNESSED

CMT_CON INSPECTOR TOM HILL

CLASS_CMT: SACKS WEIGHT YIELD

Cement1

CLASS_CMT2: SACKS2 WEIGHT YIELD

Cement2

Plug Details

PLUG TYP Density Tons Cla GEL_VISC
INTERVAL_BOT INTERVAL_TOP Weight Stat
CLASS_CMT Cemntd Dt Bot Top Sacks
FMTN_C CMT_CON
Inspector Duration Failed ☐ Wit ☒ Notification ☐
Spacer Type VISCOSITY SPACER_WEIGHT: ☒ CIRCULATION
DISPLACEMENT_VO CEMENT_ADDITIVES:

Cement Contractor C&J ENERGY SERVICES LTD

CMMNT

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CMMNT

Total Duration _____

The inspector's signature below attests that he/she accurately recorded information pertaining to the plugging operation actually witnessed, and by the information provided on the dates and times listed above. The inspector's signature does not imply that the owner/operator has successfully plugged the well bore in compliance with the objectives stated in Section 1501:9-11-03 or 4101:10-1-02 of the Ohio Administrative Code, or that plugging materials for untested plug(s) actually remained across the intervals that they were intended to seal.

(Signature of Inspector)

_____/_____/_____
Date Plugging Completed

OWNER AFFIDAVIT

By signing this affidavit, you are swearing or affirming that the information it contains is true and accurate.

I, _____, after being first duly cautioned and sworn, state that I have personal knowledge of all the facts contained in this Affidavit, that I am competent to testify to the matters stated herein, and that the following are true to the best of my knowledge and belief:

1. That I am the owner or operator agent who placed plugging material in the well referenced in this plugging report;
2. That the attached clay or cement tickets, affidavits, and/or bill of lading are the actual records for such materials used to plug the well referenced in this report; and
3. That I have read this plugging report, and the plugging materials were properly placed at the depths indicated on this plugging report in accordance with Chapter 1509 of Ohio Revised Code, Section 4101:10 et seq. of the Ohio Administrative Code and/or 1501:9-11-01 et seq. of the Ohio Administrative Code;

Further Affiant sayeth naught.

In testimony whereof, I have herewith subscribed my name this _____ day of _____, 19_____.

_____/_____/_____
Date Plugging Completed

Signature of Owner or Operator Agent

The foregoing instrument was sworn to, subscribed and acknowledged before me this _____ day of _____, 19_____

Notary Public Signature

This report shall be submitted to the ODNR Division of Oil and Gas Resources Management within 30 days after the date the surface hole is plugged.