RAILROAD COMMISSION OF TEXAS

Form W-2

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 10/28/2019
Tracking No.: 213031

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION

Operator Name: FELIX ENERGY HOLDINGS II, LLC **Operator No.:** 265322
Operator Address: FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202-0000

WELL INFORMATION

API No.: 42-475-37576 **County:** WARD
Well No.: 7H **RRC District No.:** 08
Lease Name: UL LOVELAND 1920-17 **Field Name:** PHANTOM (WOLFCAMP)
RRC Lease No.: 51487 **Field No.:** 71052900
Location: Section: 18, Block: 17, Survey: UL, Abstract: U57

Latitude: **Longitude:**
This well is located 2.4 **miles in a** NW **direction from** PYOTE, **which is the nearest town in the county.**

FILING INFORMATION

Purpose of filing: Initial Potential
Type of completion: New Well
Well Type: Producing **Completion or Recompletion Date:** 01/22/2019

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	06/07/2018	840913
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 07/10/2018 **Date of first production after rig released:** 01/22/2019
Date plug back, deepening, recompletion, or drilling operation commenced: 07/10/2018 **Date plug back, deepening, recompletion, or drilling operation ended:** 10/10/2018
Number of producing wells on this lease in this field (reservoir) including this well: 2 **Distance to nearest well in lease & reservoir (ft.):** 822.0
Total number of acres in lease: 686.75 **Elevation (ft.):** 2645 GR
Total depth TVD (ft.): 10801 **Total depth MD (ft.):** 21685
Plug back depth TVD (ft.): **Plug back depth MD (ft.):**
Was directional survey made other than inclination (Form W-12)? Yes **Rotation time within surface casing (hours):** 57.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No **Multiple completion?** No
Type(s) of electric or other log(s) run: Gamma Ray (MWD)
Electric Log Other Description:
Location of well, relative to nearest lease boundaries of lease on which this well is located: 648.0 **Feet from the** South **Line and** 2076.0 **Feet from the** East **Line of the** UL LOVELAND 1920-17 **Lease.** **Off Lease :** Yes

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type

PACKET: N/A

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination **Depth (ft.):** 1100.0 **Date:** 10/16/2017

SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 02/27/2019 **Production method:** Flowing

Number of hours tested: 24 **Choke size:** 30

Was swab used during this test? No **Oil produced prior to test:** 17745.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 861.00 **Gas (MCF):** 1001

Gas - Oil Ratio: 1162 **Flowing Tubing Pressure:** 1880.00

Water (BBLS): 3934

CALCULATED 24-HOUR RATE

Oil (BBLS): 861.0 **Gas (MCF):** 1001

Oil Gravity - API - 60.: 42.7 **Casing Pressure:** 0.00

Water (BBLS): 3934

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
2	Surface	13 3/8	17 1/2	1220			C	1866	3266.2	0	Circulated to Surface
3	Intermediate	10 3/4	12 1/4	5086			C	1130	2484.0	0	Circulated to Surface
4	Intermediate	7 5/8	9 7/8	10256			C & H	490	1252.0	5233	Calculation
5	Intermediate	7 5/8	9 7/8	10256	5233		C	520	1183.0	643	Calculation
6	Conventional Production	5 1/2	6 3/4	21675			VERSACEM;	1390	1705.0	4674	Calculation

LINER RECORD

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By

N/A

TUBING RECORD

Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	10427	10413 / AS1X

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 10945	21490.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 13498

Actual maximum pressure (PSIG) during hydraulic fracturing: 13494

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? Yes

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)	
1	Retainer	596,120 BBLS SLK WTR; 35,410,210 LBS PROPPANT	10945	21490

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
RUSTLER	Yes	1778.0	1779.0	Yes	
YATES	No			No	NOT PRESENT
SEVEN RIVERS	No			No	NOT PRESENT
QUEEN	No			No	NOT PRESENT
GLORIETA	No			No	NOT PRESENT
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	No			No	NOT PRESENT
HOLT	No			No	NOT PRESENT
CLEARFORK	No			No	NOT PRESENT
DELAWARE	Yes	4953.0	4963.0	Yes	
TUBB	No			No	NOT PRESENT
WICHITA ALBANY	No			No	NOT PRESENT
CHERRY CANYON	Yes	5846.0	5860.0	Yes	
WADDELL	No			No	NOT PRESENT
BONE SPRINGS	Yes	8304.0	8321.0	Yes	
WOLFCAMP	Yes	11148.0	11166.0	Yes	
MONTOYA	No			No	NOT PENETRATED
PENNSYLVANIAN	No			No	NOT PENETRATED
ATOKA	No			No	NOT PENETRATED
FUSSELMAN	No			No	NOT PENETRATED
DEVONIAN	No			No	NOT PENETRATED
ELLENBURGER	No			No	NOT PENETRATED

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)? No

Is the completion being downhole commingled (SWR 10)? No

REMARKS

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2019-08-08 14:23:05.756] EDL=10500 feet, max acres=704, TWO GEORGES (BONE SPRING) oil well;

take points: 10945-21490 feet

CASING RECORD :

KOP 10300
TOP OFF SURFACE CMT W/ 495 SXS CLASS C; 851.4 SLURRY CIRCULATED TO SURFACE

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Heather Dahlgren **Title:** Felix Admin Services

Telephone No.: (720) 974-2069 **Date Certified:** 06/11/2019

RAILROAD COMMISSION OF TEXAS
1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967
CEMENTING REPORT

Form W-15
Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION			
Operator Name:	Felix Energy	Operator P-5 No.:	265322
Cementer Name:	Schlumberger	Cementer P-5 No.:	754900

WELL INFORMATION			
District No.:	08	County:	Ward
Well No.:	7H	API No.: 42-475-37576	Drilling Permit No.: 840913
Lease Name:	UL Loveland 1920-17	Lease No.:	
Field Name:	Phantom (Wolfcamp)	Field No.:	71052900

I. CASING CEMENTING DATA

Type of casing: [ ] Conductor [X] Surface [ ] Intermediate [ ] Liner [ ] Production

Drilled hole size (in.): 17.5	Depth of drilled hole (ft.): 1235	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 13.375	Casing weight (lbs/ft) and grade: 54.5 J55	No. of centralizers used: 7
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] Yes [X] No If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 1220	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): 290	Cementing date: 12-Jul-18

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	520	35/65:D35/C	Remarks	972.4	450
2	495	35/65:D35/C	Remarks	851.4	350
3	356	C	Remarks	591.0	400
Total	1371			2414.8	

II. CASING CEMENTING DATA

Type of casing: [ ] Surface [ ] Intermediate [ ] Production [ ] Tapered production [ ] Multi-stage cement shoe [ ] Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] Yes [ ] No		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: [ ] Surface [ ] Intermediate [ ] Production [ ] Tapered production [ ] Multi-stage cement/DV tool [ ] Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] Yes [ ] No		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

#1: 61 lb/sk D903; 26 lb/sk D035; 1% D079; .13 lb/sk; .02 gal/sk D047; 5 lb/sk B056; 2 lb/sk B288; 2 lb/sk B289; 0.02gal/sk D177

#2: 61 lb/sk D903; 26 lb/sk D035; 1% D079; .13 lb/sk D130

#3: 94 lb/sk D903; 2% D020; .1% D065; .02 gal/sk D047; .13 lb/sk D130; 0.01gal/sk D177

#4: No cement to surface, annular volume larger than expected. Will perform top out.

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tim Hammer, FS	Schlumberger	Tim Hammer
Name and title of cementer's representative	Cementing Company	Signature

7104 W County Rd 116	Midland	TX	79706	(432) 681-1100	July 12, 2018
Addreess	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Fred Hartmann	Drilling Tech	
Typed or printed name of operator's representative	Title	Signature

1530 16th St #500 Denver, CO 80202	720-974-2054	07/12/2018
Addreess City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (https://webapps.rrc.state.tx.us/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711- 2967).

C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS
1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967
CEMENTING REPORT

Form W-15
Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name:	Felix Energy	Operator P-5 No.:	265322
Cementer Name:	Schlumberger	Cementer P-5 No.:	754900

WELL INFORMATION

District No.:	08	County:	Ward
Well No.:	7H	API No.: 42-475-37576	Drilling Permit No.: 840913
Lease Name:	UL Loveland 1920-17	Lease No.:	
Field Name:	Phantom (Wolfcamp)	Field No.:	71052900

I. CASING CEMENTING DATA

Type of casing: [ ] Conductor [X] Surface [ ] Intermediate [ ] Liner [ ] Production

Drilled hole size (in.): 17.5	Depth of drilled hole (ft.): 1235	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 13.375	Casing weight (lbs/ft) and grade: 54.5 J55	No. of centralizers used: 7
Was cement circulated to ground surface (or bottom of cellar) outside casing? [X] Yes [ ] No If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 1220	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): 0	Cementing date: 12-Jul-18

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	495	35/65:D35/C	Remarks	851.4	290
2					
3					
Total	495			851.4	

II. CASING CEMENTING DATA

Type of casing: [ ] Surface [ ] Intermediate [ ] Production [ ] Tapered production [ ] Multi-stage cement shoe [ ] Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] Yes [ ] No		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: [ ] Surface [ ] Intermediate [ ] Production [ ] Tapered production [ ] Multi-stage cement/DV tool [ ] Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? [ ] Yes [ ] No		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
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CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS

#1: 61 lb/sk D903; 26 lb/sk D035; 1% D079; .13 lb/sk D130

#2:

#3:

#4: Cement returns at surface : 50bbls

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Tim Hammer, FS	Schlumberger	
Name and title of cementer's representative	Cementing Company	Signature

7104 W County Rd 116	Midland	TX	79706	(432) 681-1100	July 12, 2018
Addreess	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

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Fred Hartmann	Drilling Tech	
Typed or printed name of operator's representative	Title	Signature

1530 16th St #500	Denver	CO	80202	720-974-2054	07/12/2018
Addreess	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

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F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS

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P.O. Box 12967
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CEMENTING REPORT

Form W-15
Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION			
Operator Name:	FELIX ENERGY HOLDINGS	Operator P-5 No.:	265322
Cementer Name:	TRANS TEX CEMENTING SERVICES, LLC	Cementer P-5 No.:	864412

WELL INFORMATION					
District No.:	08	County:	WARD		
Well No.:	7H	API No.:	42-475-37576	Drilling Permit No.:	840913
Lease Name:	UL LOVELAND 1920-17	Lease No.:			
Field Name:	Phantom (Wolfcamp)	Field No.:	71052900		

I. CASING CEMENTING DATA

Type of Casing: ☐ Conductor ☐ Surface ☑ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.):	12.25	Depth of drilled hole (ft.):	5101	Est. % wash-out or hole enlargement:	20
Size of casing in O.D. (in.):	10.75	Casing weight (lbs/ft) and grade:	45.5# J55	No. of centralizers used:	10
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☑ YES ☐ NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):	5086	Top of liner (ft.): / Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	NA	Calculated top of cement (ft.):	0	Cementing date:	8/6/2018

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	900	MULTI "C"	SEE REMARKS	2178	11573
2	230	CLASS "C"	SEE REMARKS	306	1626
3					
Total	1130			2484	13199

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement sh ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:		
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV t ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:		
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES ☐ NO ☐		Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS
MULTI "C" +10%GEL+3%SALT+.25LBS CF+.3%CFL+.2%CR-1+2#GIL
CLASS "C" +0.2%CR-1+0.3%CFR-1+0.3%CFL-1+0.25#CF
0
CIRCULATED 144 BBL = 334 SKS BACK TO SURFACE OF CEMENT

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

HILARIO GALVAN — Name and title of cementer's representative

TRANS TEX CEMENTING — Cementing Company

Signature

5019 BASIN ST — Address

MIDLAND, TX 79703 — City, State, Zip Code

432-694-4900 — Tel: Area Code Number

8/6/2018 — Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Fred Hartmann — Typed or printed name of operator's representative

Drilling Tech — Title

Signature

1530 16th St #500 Denver, CO 80202 — Address City, State, Zip Code

720-974-2054 — Tel: Area Code Number

08/06/2018 — Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. What to file: An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. How to file: An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System

(https://webapps.rrc.state.tx.us/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 787112967).

C. Surface casing: An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. Multi-stage cement: An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. Multiple parallel strings: An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. Slurry data: If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form W-15
Rev. 08/2014

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: FELIX ENERGY	**Operator P-5 No.:** 265322
Cementer Name: HALLIBURTON ENERGY SERVICES	**Cementer P-5 No.:** 347151

WELL INFORMATION

District No.: 08	**County:** WARD	
Well No.: 7H	**API No.:** 42-475-37576	**Drilling Permit No.:** 840913
Lease Name: UL LOVELAND 1920-17	**Lease No.:**	
Field Name: Phantom (Wolfcamp)	**Field No.:** 71052900	

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☐ Production

Drilled hole size (in.):	**Depth of drilled hole (ft.):**	**Est. % wash-out or hole enlargement:**
Size of casing in O.D. (in.):	**Casing weight (lbs/ft) and grade:**	**No. of centralizers used:**
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO If no for surface casing, explain in Remarks.	**Setting depth shoe (ft.):**	**Top of liner (ft.):** / **Setting depth liner (ft.):**
Hrs. waiting on cement before drill-out:	**Calculated top of cement (ft.):**	**Cementing date:**

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☑ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.): 9 7/8	**Depth of drilled hole (ft.):** 10275	**Est. % wash-out or hole enlargement:** 20
Size of casing in O.D. (in.): 7 5/8	**Casing weight (lbs/ft) and grade:** 29.7 HCL80	**No. of centralizers used:** 31
Tapered string drilled hole size (in.) Upper: Lower:	**Tapered string depth of drilled hole (ft.)** Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	**Tapered string casing weight(lbs/ft) and grade** Upper: Lower:	**Tapered string no. of centralizers used** Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☑ NO		**Setting depth shoe (ft.):** 10256
Hrs. waiting on cement before drill-out: NA	**Calculated top of cement (ft.):** 5233	**Cementing date:** 8/29/2018

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	415	C	DL-SEAL, 0.125LBM POLY-E	1162	6232
2	75	H	3% HALAD(R)-9, 0.1% HR-6	90	671
3					
Total	490			1252	6903

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☑ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.): 9 7/8	**Depth of drilled hole (ft.):** 10275	**Est. % wash-out or hole enlargement:** 20
Size of casing in O.D. (in.): 7 5/8	**Casing weight (lbs/ft) and grade:** 29.7 HCL80	**No. of centralizers used:** 31
Tapered string drilled hole size (in.) Upper: Lower:	**Tapered string depth of drilled hole (ft.)** Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	**Tapered string casing weight(lbs/ft) and grade** Upper: Lower:	**Tapered string no. of centralizers used** Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☑ NO		**Setting depth tool (ft.):** 5233
Hrs. waiting on cement before drill-out: N/A	**Calculated top of cement (ft.):** 643	**Cementing date:** 8/29/2018

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	430	C	0.4% HR-800, 8LBM SALT	1063	4761
2			0.25 LBM D-AIR 5000		
3	90	C	0.3% HR-800	120	534
Total	520			1183	5295

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS
SO# 0905085701

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

CASEY WILSON - SERVICE SUPERVISOR	Halliburton		
Name and title of cementer's representative	Cementing Company	Signature	
6155 W. Murphy St.	Odessa, TX, 79763	432-571-8600	8/29/18
Address	City, State, Zip Code	Tel: Area Code Number	Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

COLE ORLEY	DRILLING CONSULTANT				
Typed or printed name of operator's representative	Title	Signature			
1530 16TH STREET STE 500	DENVER	CO 80202	720-974-2061		08/29/18
Address	City,	State, Zip Code	Tel: Area Code	Number	Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.

The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.

B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (https://webapps.rrc.state.tx.us/security/login.do) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).

C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.

To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form W-15
Rev. 08/2014

CEMENTING REPORT

Cementer: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: FELIX ENERGY	Operator P-5 No.: 265322
Cementer Name: HALLIBURTON ENERGY SERVICES	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: WARD	
Well No.: 7H	API No.: 42-475-37576	Drilling Permit No.: 840913
Lease Name: UL LOVELAND 1920-17	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

I. CASING CEMENTING DATA

Type of casing: ☐ Conductor ☐ Surface ☐ Intermediate ☐ Liner ☑ Production

Drilled hole size (in.): 6.75	Depth of drilled hole (ft.): 21685	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 5.5	Casing weight (lbs/ft) and grade: 23 P110	No. of centralizers used: 0
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☒ NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 21675	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: NA	Calculated top of cement (ft.): 4674	Cementing date: 10/9/2018

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	365	VERSACEM	SEE REMARKS	447	5369
2	1025	GAS STOP	SEE REMARKS	1258	15033
3					
Total	1390			1705	20402

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement shoe ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

III. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered production ☐ Multi-stage cement/DV tool ☐ Multiple parallel strings

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? ☐ YES ☐ NO		Setting depth tool (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date: 10/8/2018

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total	0			0	0

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)							
Sacks of cement used							
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)							
Class/type of cement							
Perforate and squeeze (YES/NO)							

REMARKS
LEAD SLURRY HAS . 40% HALAD(R)-344, .25 LBM D-AIR 5000, .40% HR-601 TAIL SLURRY HAS .40% HALAD(R) -344, .0250 % SA 1015, .25% HR-800

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LEROY WELCH	Halliburton			
Name and title of cementer's representative	Cementing Company	Signature		
6155 W. Murphy St.	Odessa, TX, 79763	432-571-8600		10/9/2018
Address	City, State, Zip Code	Tel: Area Code	Number	Date: mo. day yr.

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Brandon L. Houltzhouser	Drilling Consultant			
Typed or printed name of operator's representative	Title	Signature		
1530 16th ST STE 500	Denver, CO, 80202	720-974-2061		10/09/2018
Address	City, State, Zip Code	Tel: Area Code	Number	Date: mo. day yr.

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D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.

E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing **and** Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.

F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.

G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 213031

This facsimile L-1 was generated electronically from data submitted to the RRC.

Instructions

When to File Form L-1:
- with Forms G-1, W-2, and GT-1 for new and deepened gas, oil, and geothermal wells
- with Form W-3 for plugged dry holes
- when sending in a log which was held under a request for confidentiality and the period for confidentiality has not yet expired.

When is Form L-1 NOT required:
- with Forms W-2, G-1, and GT-1 filed for injection wells, disposal wells, water supply wells, service wells, re-test wells, re-classifications, and plugbacks of oil, gas or geothermal wells
- with Form W-3 for plugging of other than a dry hole

Where to File Form L-1:
- with the appropriate Commission district office

Filling out Form L-1:
- Section I and the signature section must be filled out for all wells
- complete only the appropriate part of Section II

Type of log required:
- any wireline survey run for the purpose of obtaining lithology, porosity, or resistivity information
- no more than one such log is required but it must be of the subject well
- if such log is NOT run on the subject well, do NOT substitute any other type of log; just select Section II, Part A below

SECTION I. IDENTIFICATION

Operator Name: FELIX ENERGY HOLDINGS II, LLC	District No. 08	Completion Date: 01/22/2019
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 840913	
Lease Name UL LOVELAND 1920-17	Lease/ID No. 51487	Well No. 7H
County WARD	API No. **42-** 475-37576	

SECTION II. LOG STATUS (Complete either A or B)

☐ A. BASIC ELECTRIC LOG NOT RUN

☒ B. BASIC ELECTRIC LOG RUN. (Select one)

- ☒ 1. Confidentiality is requested and a copy of the header for each log that has been run on the well is attached.
- ☐ 2. Confidentiality already granted on basic electric log covering this interval (applicable to deepened wells only).
- ☐ 3. Basic electric log covering this interval already on file with Commission (applicable to deepened wells only).
- ☐ 4. Log attached to (select one):
  - ☐ (a) Form L-1 (this form). If the company/lease name on log is different from that shown in Section I, please enter name on log here: _____
    Check here if attached log is being submitted after being held confidential. ☐
  - ☐ (b) Form P-7, Application for Discovery Allowable and New Field Designation.
  - ☐ (c) Form W-4, Application for Multiple Completion:
    Lease or ID No(s). _____
    Well No(s). _____

Heather Dahlgren
Signature

Felix Admin Services
Title

FELIX ENERGY HOLDINGS II, LLC
Name (print)

(720) 974-2069
Phone

04/27/2019
Date

-FOR RAILROAD COMMISSION USE ONLY-

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.texas.gov

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 213031

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
PHANTOM (WOLFCAMP)	UL LOVELAND 1920-17			
3. Current operator name exactly as shown on P-5 Organization Report	4. Operator P-5 no.	5. Oil Lse/Gas ID no	6. County	7. RRC district
FELIX ENERGY HOLDINGS II, LLC	265322	51487	WARD	08
8. Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
FELIX ENERGY 1530 16TH ST SUITE 500 DENVER, CO 80202	7H			
	10. Classification			11. Effective Date
	☒ Oil ☐ Gas ☐ Other *(see instruction A)*			01/22/2019

12. Purpose of Filing. (Complete section a or b below.) *(See instructions B and G)*

a. Change of: ☐ operator ☐ oil or condensate gatherer ☐ gas gatherer ☐ gas purchaser ☐ gas purchaser system code
☐ field name from _____
☐ lease name from _____

OR

b. New RRC Number for: ☒ oil lease ☐ gas well ☐ other well (specify) _____ **Due to:** ☒ new completion or recompletion ☐ reclass oil to gas ☐ reclass gas to oil ☐ consolidation, unitization, or subdivision (oil lease only)

13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). *(See instruction G).*

Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left *(Attach an additional sheet in same format if more space is needed)*	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	TARGA DELAWARE LLC(836022)	0001	100.0	

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G).*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take
FELIX MIDSTREAM, LLC(265324)	98.0
RMCO LOGISTICS LLC(714201)	1.0
CONCORD CRUDE OIL MARKETING LLC(170262)	1.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 10/28/2019

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.

Name of Previous Operator

Signature

Name (print)

☐ **Authorized Employee of previous operator**

☐ **Authorized agent of previous operator** *(see instruction G)*

Title

Date

Phone with area code

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

FELIX ENERGY HOLDINGS II, LLC
Name (print)

Heather Dahlgren
Signature

Felix Admin Services
Title

☒ **Authorized Employee of current operator**

☐ **Authorized agent of current operator** *(see instruction G)*

heatherd@felix-energy.com
E-mail Address (optional)

04/27/2019
Date

(720) 974-2069
Phone with area code

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin, Texas 78711-2967
www.rrc.texas.gov

CERTIFICATE OF POOLING AUTHORITY

Revised 05/2001

P-12

1. Field Name(s)	2. Lease/ID Number *(if assigned)*	3. RRC District Number
Phantom (Wolfcamp)		08
4. Operator Name	**5. Operator P-5 Number**	**6. Well Number**
Felix Energy Holdings II, LLC	265322	7H
7. Pooled Unit Name	**8. API Number**	**9. Purpose of Filing**
UL Loveland 1920-17	42-475-37576	☐ Drilling Permit (W-1)
10. County	**11.Total acres in pooled unit**	☑ Completion Report
Ward	686.75	

DESCRIPTION OF INDIVIDUAL TRACTS CONTAINED WITHIN THE POOLED UNIT

TRACT/PLAT IDENTIFIER	TRACT NAME	ACRES IN TRACT *(See inst. #7 below)*	INDICATE UNDIVIDED INTERESTS UNLEASED	NON-POOLED
1	UL Lease 111459	320.35	☐	☐
2	UL Lease 111460	326.34	☐	☐
3	UL Lease 105885	40.06	☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐
			☐	☐

CERTIFICATION:

I declare under penalties prescribed pursuant to the Sec. 91.143, Texas Natural Resources Code, that I am authorized to make the foregoing statements and that the information provided by me or under my direction on this Certificate of Pooling Authority is true, correct, and complete to the best of my knowledge.

Crystal M Hink

Signature | Print Name

Land Admin Manager | crystalh@felix-energy.com | 10/23/2019 | (720) 974-2076

Title | E-mail *(if available)* | Date | Phone

INSTRUCTIONS — Reference: Statewide Rules 31, 38 and 40

1. When two or more tracts are pooled to form a unit to obtain a drilling permit, file completion paperwork, or reform a pooled unit pursuant to Rule 38(d)(3) the operator must file an original Certificate of Pooling Authority and certified plat.
2. The certified plat shall designate each tract with an outline and a tract identifier. The tract identifier on the plat shall correspond to the tract identifier and associated information listed on the Certificate.
3. If within an individual tract, a non-pooled and/or unleased interest exists, indicate by checking the appropriate box.
4. If the Purpose of Filing is to obtain a drilling permit, in box #1 list all applicable fields separately or enter "All Fields" if the Certificate pertains to all fields requested on Form W-1.
5. If the Purpose of Filing is to file completion paperwork, enter the applicable field name in box #1 for the completion.
6. Identify the drill site tract with an * to the left of the tract identifier.
7. The total number of acres in the pooled unit in #11 should equal the total of all acres in the individual tracts listed.

Clear Form

RAILROAD COMMISSION OF TEXAS

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Form P-16

Rev. 02/2019

Acreage Designation

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION I. OPERATOR INFORMATION			
Operator Name:	Felix Energy Holdings II, LLC	Operator P-5 No.:	265322
Operator Address:	1530 16th Street, Suite 500, Denver, CO 80202		

SECTION II. WELL INFORMATION				
District No.:	08	API No.:	42-475-37576	Purpose of Filing:
Well No.:	7H	Drilling Permit No.:	840913	
Lease Name:	UL Loveland 1920-17	RRC ID or Lease No.:		☐ Drilling Permit Application (Form W-1)
Total Lease Acres:	686.75	Field Name:	Phantom (Wolfcamp)	☑ Completion Report (Form G-1/W-2)
Proration Acres:	85.85	Field No.:	71052900	
Wellbore Profile	Horizontal Well	Is this a UFT field?	Yes	
SL Record (Parent) Well Drilling Permit No.:		County:	Ward	

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

RRC ID No. or Lease No.	Well No.	Profile	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (if different from filing operator)
831896	1H	Horiz.	UL Loveland 1920-17	42-475-37338	85.84	N	
831897	2H	Horiz.	UL Loveland 1920-17	42-475-37339	85.84	N	
831899	3H	Horiz.	UL Loveland 1920-17	42-475-37340	85.84	N	
840908	4H	Horiz.	UL Loveland 1920-17	42-475-37573	85.84	N	
840911	5H	Horiz.	UL Loveland 1920-17	42-475-37574	85.84	N	
840912	6H	Horiz.	UL Loveland 1920-17	42-475-37575	85.85	N	
840913	7H	Horiz.	UL Loveland 1920-17	42-475-37576	85.85	N	
840915	8H	Horiz.	UL Loveland 1920-17	42-475-37577	85.85	N	

A. Total Assigned Horiz. Acreage =	686.75	C. Total Assigned Acreage =	686.75
Total Remaining Horiz. Acreage =	0.00	Total Remaining Acreage =	686.75
B. Total Assigned Vert./Dir. Acreage =	0.00		
Total Remaining Vert./Dir. Acreage =	686.75		

SECTION IV. REMARKS - REQUIRED FOR PSA AND CO-DEVELOPMENT *(refer to instructions)*

Attach Additional Pages As Needed. ☑ No additional pages ☐ Additional Pages: ___ (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature

Crystal M. Hink
Name and title (type or print)

crystalh@felix-energy.com
Email
(include email address *only* if you affirmatively consent to its public release)

1530 16th Street, Suite 500	Denver	CO	80202	720-974-2076	10/23/19
Address	City,	State,	Zip Code	Tel: Area Code Number	Date: mo. day yr.

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued:	16 October 2017	**GAU Number:**	181787

Attention:	FELIX ENERGY HOLDINGS II, FELIX ENERGY DENVER, CO 80202	**API Number:**	
		County:	WARD
		Lease Name:	UL LOVELAND 1920-17
		Lease Number:	
Operator No.:	265322	**Well Number:**	1H
		Total Vertical Depth:	12000
		Latitude:	31.554103
		Longitude:	-103.157542
		Datum:	NAD27

Purpose: New Drill

Location: Survey-UL; Abstract-U57; Block-17; Section-18

To protect usable-quality groundwater at this location, the Groundwater Advisory Unit of the Railroad Commission of Texas recommends:

The interval from the land surface to a depth of 1100 feet must be protected.

This recommendation is applicable to all wells within a radius of 1100 feet of this location.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

This determination is based on information provided when the application was submitted on 10/11/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

FELIX ENERGY HOLDINGS II, LLC

WARD COUNTY, TEXAS

S.H.L. 648' FSL - 2,076' FEL, SECTION 18, BLOCK 17

GRID NORTH (NAD 83)
TEXAS - CENTRAL ZONE

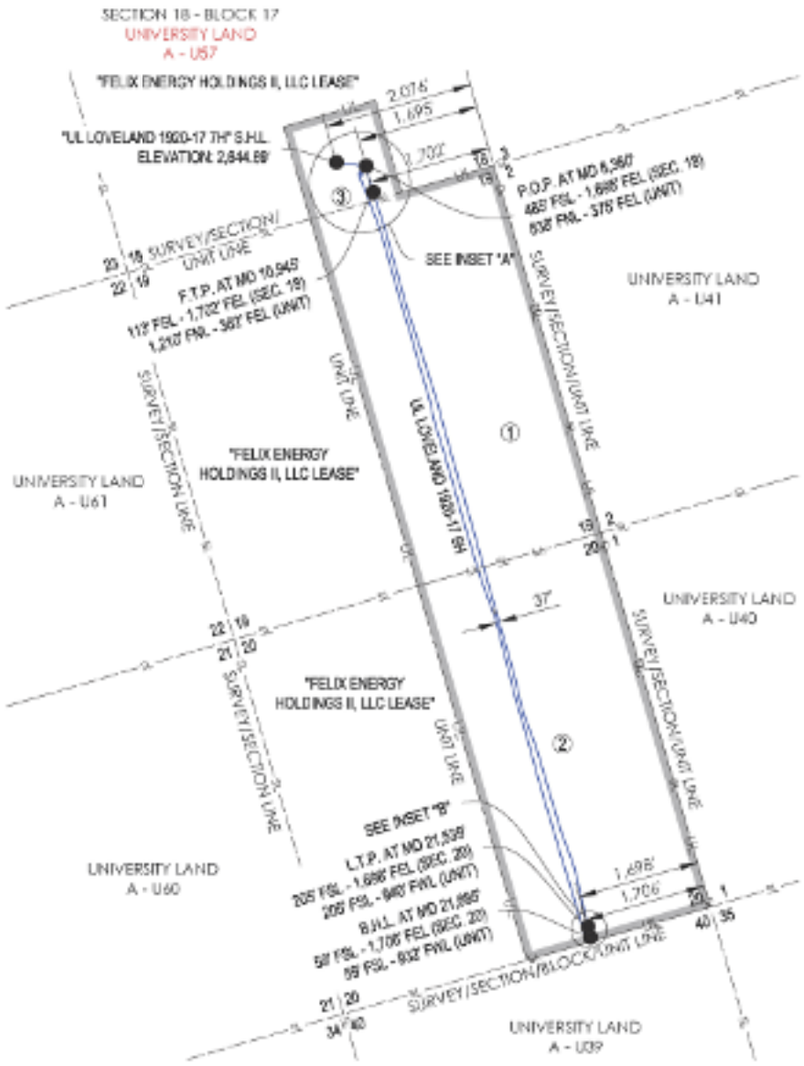
LEGEND

UL	UNIT LINE
LL	LEASE LINE
SL	SECTION LINE
	AS-DRILLED WELL PATH
	100' UNIT OFFSET
S.H.L.	SURFACE HOLE LOCATION
P.O.P.	POINT OF PENETRATION
F.T.P.	FIRST TAKE POINT
T.P.	TURNING POINT
L.T.P.	LAST TAKE POINT
B.H.L.	BOTTOM HOLE LOCATION

① E/2 - SECTION 19 - BLOCK 17
320.35 ACRES
UNIVERSITY LAND
A - U58
UL LEASE
#111459

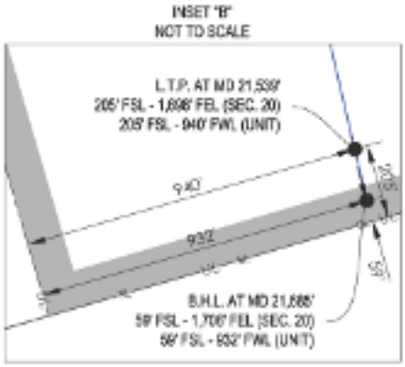
② E/2 - SECTION 20 - BLOCK 17
326.34 ACRES
UNIVERSITY LAND
A - U59
UL LEASE
#111460

③ SW1/4 SE1/4 - SECTION 18 - BLOCK 17
40.06 ACRES
UNIVERSITY LAND
A - U57
UL LEASE
#105885



INSET "A"
NOT TO SCALE

INSET "B"
NOT TO SCALE



GRAPHIC SCALE IN FEET
2000' 1000' 0 2000'

OPERATOR: FELIX ENERGY HOLDINGS II, LLC

WELL NAME: UL LOVELAND 1920-17 **WELL NO:** 7H

TOPOGRAPHIC & VEGETATION: FLAT LOCATION WITH LOW LYING BRUSH

GOOD DRILL SITE: YES

REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET: NONE

BEST ACCESSIBILITY TO LOCATION: FROM NORTH

DISTANCE & DIRECTION FROM HWY JCT OR TOWN: ±2.4 MILES NORTHWEST OF PYOTE, TX FROM THE INTERSECTION OF HIGHWAY 247 AND RANCH ROAD 2355 TRAVEL ±3.1 MILES. TURN RIGHT ON EXISTING LEASE ROAD. TRAVEL ±0.1 MILES, TURN RIGHT ON EXISTING LEASE ROAD TRAVEL ±0.8 MILES. TURN RIGHT ON PROPOSED LEASE ROAD TRAVEL 214 FEET TO WELL PAD.

SURFACE HOLE LOCATION:

648' FSL & 2,076' FEL (SEC. 18)
675' FNL & 564' FWL (UNIT)
GROUND ELEVATION: 2,644.69'
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 697609.71, EASTING: 1119044.57
LATITUDE: N 31.55400601°, LONGITUDE: W 103.16182121°
NAD 83 TEXAS CENTRAL ZONE
NORTHING: 10540185.22, EASTING: 1415510.48
LATITUDE: N 31.55413872°, LONGITUDE: W 103.16226179°

POINT OF PENETRATION:

485' FSL & 1,695' FEL (SEC. 18)
838' FNL & 375' FEL (UNIT)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 697559.91, EASTING: 1119455.76
LATITUDE: N 31.55389788°, LONGITUDE: W 103.16049750°

FIRST TAKE POINT:

113' FSL & 1,702' FEL (SEC. 18)
1,210' FNL & 382' FEL (UNIT)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 697200.71, EASTING: 1119553.51
LATITUDE: N 31.55291749°, LONGITUDE: W 103.16015449°

LAST TAKE POINT:

205' FSL & 1,698' FEL (SEC. 20)
205' FSL & 940' FWL (UNIT)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 687043.18, EASTING: 1122521.78
LATITUDE: N 31.52520786°, LONGITUDE: W 103.14980292°

BOTTOM HOLE LOCATION:

59' FSL & 1,706' FEL (SEC. 20)
59' FSL & 932' FWL (UNIT)
NAD 27 TEXAS CENTRAL ZONE
NORTHING: 686901.06, EASTING: 1122555.23
LATITUDE: N 31.52481961°, LONGITUDE: W 103.14968404°

UNIT CORNERS

LOCATION	NAD27 STATE PLANE TEXAS CENTRAL (3338)	NAD27 GEOGRAPHIC (DD)
NW CORNER UNIT	N = 698369.14 E = 1118314.60	LAT: 31.55530310° LONG: -103.16620380°
NE CORNER SW1/4 SE1/4	N = 698469.48 E = 1119861.18	LAT: 31.55540844° LONG: -103.16071917°
SE CORNER SW1/4 SE1/4	N = 697199.77 E = 1119861.06	LAT: 31.55394275° LONG: -103.16887568°
NE CORNER 19-17	N = 697099.76 E = 1121218.65	LAT: 31.55404808° LONG: -103.16480462°
SE CORNER 20-17	N = 687322.41 E = 1124209.11	LAT: 31.52383263° LONG: -103.14441159°
SW CORNER UNIT	N = 686582.83 E = 1121675.74	LAT: 31.52383361° LONG: -103.15247662°

GENERAL NOTES

1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON REASONABLE VISUAL OBSERVATION. LOCATIONS OF UNDERGROUND UTILITIES/ STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREIN. ADDITIONAL BURIED UTILITIES/ STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/ STRUCTURES. BEFORE EXCAVATIONS ARE BEGUN, THE OFFICES OF THE VARIOUS UTILITIES SERVICING THE AREA SHOULD BE CONTACTED FOR THEIR UTILITY LOCATION.
2. BASIS OF BEARINGS : TEXAS STATE PLANE GRID, CENTRAL ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION.
3. COMBINED SCALE FACTOR AT S.H.L. = 0.99991558
4. VERTICAL DATUM IS NAVD 88
5. AREAS, DISTANCES, AND COORDINATES ARE "GRID" BASED ON U.S. SURVEY FEET.
6. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY.

STATE OF TEXAS
SHANNON D. OZMENT
6542
REGISTERED
LAND SURVEYOR

10/24/2019

CONTACT INFORMATION:
Shannon D. Ozment
Crafton Tull (TBPELS)
1900 Ledgestown Dr.
Conway, AR 72034

REVISION	
1	UPDATE UNIT 5-15-19
2	ADDED UNIT CALLS 9-3-19

"UL LOVELAND 1920-17 7H"

E/2 SECTION 19, BLOCK 17 - 320.35 ACRES
E/2 SECTION 20, BLOCK 17 - 326.34 ACRES
SW1/4 SE1/4 SECTION 18, BLOCK 17 - 40.06 ACRES
FINAL AS-DRILLED PLAT
WARD COUNTY, TEXAS

1900 Ledgestown Dr
Conway, Arkansas 72034
Crafton Tull surveying
501.328.3811 501.328.3826
www.craftontull.com

SCALE: 1" = 2000'	CHECKED BY:	KEVIN L.DOW	APPROVED BY: J.PARKER
PLOT DATE: 10-24-2019	DRAWN BY:		SHEET NO.: 1 OF 1

S:\809-1 FELIX ENERGY\89015V0212 UL LOVELAND MCNASSER PADS\UL LOVELAND 1920-17 1H-8H AS-DRILLED.DWG 10/24/2019 12:50:13 PM LD1165