RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 07/01/2020
Tracking No.: 231497

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

OPERATOR INFORMATION

Operator Name: PIEDRA OPERATING, LLC **Operator No.:** 664930
Operator Address: PO BOX 10485 MIDLAND, TX 79702-0000

WELL INFORMATION

API No.: 42-003-48038 **County:** ANDREWS
Well No.: 2H **RRC District No.:** 08
Lease Name: UNIVERSITY 5-38 A **Field Name:** SPRABERRY (TREND AREA) R 40 EXC
RRC Lease No.: 53878 **Field No.:** 85280301
Location: Section: 35, Block: 5, Survey: UL, Abstract: U139

Latitude: 32 **Longitude:** -102
This well is located 15.8 **miles in a** NE **direction from** ANDREWS, **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:** 12/31/2019

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	07/05/2019	850696
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 08/26/2019 **Date of first production after rig released:** 12/31/2019
Date plug back, deepening, recompletion, or drilling operation commenced: 08/26/2019 **Date plug back, deepening, recompletion, or drilling operation ended:** 08/31/2019
Number of producing wells on this lease in this field (reservoir) including this well: 1 **Distance to nearest well in lease & reservoir (ft.):** 880.0
Total number of acres in lease: 640.00 **Elevation (ft.):** 2988 GL
Total depth TVD (ft.): 9608 **Total depth MD (ft.):** 20376
Plug back depth TVD (ft.): **Plug back depth MD (ft.):** 20376
Was directional survey made other than inclination (Form W-12)? Yes **Rotation time within surface casing (hours):** 120.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No **Multiple completion?** No
Type(s) of electric or other log(s) run: Other
Electric Log Other Description: RADIAL CEMENT BOND CCL
Location of well, relative to nearest lease boundaries of lease on which this well is located: 300.0 **Feet from the** South **Line and** 975.0 **Feet from the** East **Line of the** UNIVERSITY 5-38 **Lease.** **Off Lease :** No

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

	Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
W2:	N/A			

PACKET: N/A

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

GAU Groundwater Protection Determination **Depth (ft.):** 1750.0 **Date:** 01/18/2018

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

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 01/19/2020 **Production method:** Pumping

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

Was swab used during this test? No **Oil produced prior to test:** 16360.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 1383.00 **Gas (MCF):** 310

Gas - Oil Ratio: 224 **Flowing Tubing Pressure:**

Water (BBLS): 1241

CALCULATED 24-HOUR RATE

Oil (BBLS): 1383.0 **Gas (MCF):** 310

Oil Gravity - API - 60.: 39.0 **Casing Pressure:**

Water (BBLS): 1241

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
1	Surface	13 3/8	17 1/2	1880			C	1495	2544.2	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5535			C	1375	2919.0	500	Calculation
3	Conventional Production	5 1/2	8 1/2	20376			C, H	2530	4228.0	3000	Cement Evaluation Log

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	9170	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 9963	20261.0

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: 9700 **Actual maximum pressure (PSIG) during hydraulic fracturing:** 9450

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	Fracture	PLEASE SEE FRAC FOCUS DISCLOSURE FOR DETAILS	9963	20261

FORMATION RECORD

Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
YATES	Yes	2800.0	2800.0	Yes	INT. CASING SET @ 5535'; TOC @ 500'
SEVEN RIVERS	No			No	PINCHED OUT
QUEEN	No			No	PINCHED OUT
GRAYBURG	Yes	4500.0	4500.0	Yes	INT. CASING SET @ 5535'; TOC @ 500'
SAN ANDRES - CO2 FLOOD, HIGH FLOWS, H2S, CORROSIVE	Yes	3800.0	3800.0	Yes	INT. CASING SET @ 5535'; TOC @ 500'
HOLT	No			No	PINCHED OUT
GLORIETA	No			No	PINCHED OUT
TUBB	No			No	PINCHED OUT
CLEARFORK	No			No	PINCHED OUT
PERMIAN DETRITAL	No			No	PINCHED OUT
LEON	No			No	PINCHED OUT
WICHITA ALBANY	No			No	PINCHED OUT
SPRABERRY	Yes	8500.0	8500.0	Yes	PROD TOC @ 3000'
DEAN	No			No	PINCHED OUT
WOLFCAMP	Yes	9700.0	9700.0	Yes	PROD TOC @ 3000'
CANYON	No			No	DID NOT DRILL THIS DEEP
PENNSYLVANIAN	No			No	DID NOT DRILL THIS DEEP
MCKEE	No			No	DID NOT DRILL THIS DEEP
STRAWN	No			No	DID NOT DRILL THIS DEEP
FUSSELMAN	No			No	DID NOT DRILL THIS DEEP
DEVONIAN	No			No	DID NOT DRILL THIS DEEP
SILURIAN	No			No	DID NOT DRILL THIS DEEP
ELLENBURGER	No			No	DID NOT DRILL THIS DEEP

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

KOP @ 9218'. LEASE NAME BEING CHANGED FROM UNIVERSITY 5-38 TO UNIVERSITY 5-38 A UPON COMPLETION FILING.

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2020-05-27 13:29:01.166] EDL=10250 feet, max acres=680, SPRABERRY (TREND AREA) R 40 EXC oil well;

take points: 9963-20261 feet

CASING RECORD :

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Ann Ritchie **Title:**

Telephone No.: (432) 684-6381 **Date Certified:** 02/25/2020

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: PIEDRA OPERATING LLC-EBUS	**Operator P-5 No.:** 664930
Cementer Name: HALLIBURTON ENERGY SERVICES	**Cementer P-5 No.:** 347151

WELL INFORMATION

District No.: 08	**County:** ANDREWS	
Well No.: 2H	**API No.:** 42-003-48638	**Drilling Permit No.:** 850691
Lease Name: UNIVERSITY 5-38 A	**Lease No.:**	
Field Name: Spraberry (Trend Area) R 40 EXC	**Field No.:** 85280301	

I. CASING CEMENTING DATA

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

Drilled hole size (in.): 17 1/2"	**Depth of drilled hole (ft.):** 1880'	**Est. % wash-out or hole enlargement:** 20
Size of casing in O.D. (in.): 13 3/8"	**Casing weight (lbs/ft) and grade:** 54.5#	**No. of centralizers used:** 8
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.):** 1880'	**Top of liner (ft.):** / **Setting depth liner (ft.):**
Hrs. waiting on cement before drill-out: 6+	**Calculated top of cement (ft.):** 0'	**Cementing date:** 8/26/19

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	945	C	SEE REMARKS	1811.56	2611.15
2	550	C	SEE REMARKS	732.60	1004.44
3					
Total	1495			2544.16	3615.59

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					

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					

Y2. 603 - Y8038

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 CEMENT-ECONOCEM(TM),TAIL CEMENT- HALCEM(TM)

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.

Justin Robinson/Service Supervisor	Halliburton		
Name and title of cementer's representative	Cementing Company	Signature	
6155 W. Murphy St.	Odessa, TX, 79763	432-571-8600	8/26/19
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.

Katherine A Brown	Eng Tech	Katherine A Brown	
Typed or printed name of operator's representative	Title	Signature	
PO Box 10465	Midland TX 79702	432.685.7005	2/7/2020
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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION

Operator Name: PIEDRA OPERATING LLC	Operator P-5 No.: 664930
Cementer Name: Halliburton Energy Services	Cementer P-5 No.: 347151

WELL INFORMATION

District No.: 08	County: ANDREWS	
Well No.: 2H	API No.: 42 - 003 - 48638	Drilling Permit No.: 850696
Lease Name: UNIVERSITY 5-38 A	Lease No.:	
Field Name: SPRABERRY (TREND AREA)	Field No.: 85280300	

I. CASING CEMENTING DATA

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

Drilled hole size (in.): 12 1/4"	Depth of drilled hole (ft.): 5535'	Est. % wash-out or hole enlargement: 20
Size of casing in O.D. (in.): 9 5/8"	Casing weight (lbs/ft) and grade: 40#	No. of centralizers used: 24
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.): 5535'	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: 12+	Calculated top of cement (ft.): 500'	Cementing date: 8/31/19

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	990	C		2457	7754
2	385	C	AP-1, CFR-3, DAIR, HR 800	462	1414
3					
Total	1375			2919	9168

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:

SLURRY

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

42-003 - 48038

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

WE HAD FULL REURNS THROUGHOUT THE JOB BUT DID NOT CIRCULATE CEMENT TO SURFACE

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.

CODY NELSON	Halliburton			
Name and title of cementer's representative	Cementing Company	Signature		
1301 W. Webb St.	Brownfield, Tx, 79316	575-392-0700		08/31/2019
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.

Katherine A Brown	Eng Tech	Katherine A Brown		
Typed or printed name of operator's representative	Title	Signature		
Po Box 10185 Midland Tx 79702		432 685 9405		2/2/2020
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

CEMENTING REPORT

Form W-15
Rev. 08/2014

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

OPERATOR INFORMATION			
Operator Name:	PIEDRA OPERATING LLC	Operator P-5 No.:	664930
Cementer Name:	HALLIBRTON ENERGY SERVICES	Cementer P-5	347151

WELL INFORMATION					
District No.:	08	County:	ANDREWS, TX		
Well No.:	2H	API No.:	42-003-48638	Drilling Permit No.:	850696
Lease Name:	UNIVERSITY 5-38 A	Lease No.:			
Field Name:	SPRABERRY (TREND AREA) R 40 EXC	Field No.:	85280301		

I. CASING CEMENTING DATA

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

Drilled hole size (in.):	8 1/2"	Depth of drilled hole (ft.):	20,376'	Est. % wash-out or hole enlargement:	20
Size of casing in O.D. (in.):	5 1/2"	Casing weight (lbs/ft) and grade:	20#	No. of centralizers used:	120
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.):	20,376'	Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:	24+	Calculated top of cement (ft.):	3000'	Cementing Date:	10/30/2019

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	370	C		1010	3987
2	2010	C		2894	12635
3	150	C		324	1365
Total	2530			4228	17987

II. CASING CEMENTING DATA

Type of casing: ☐ Surface ☐ Intermediate ☐ Production ☐ Tapered ☐ Multi-stage shoe ☐ Multiple parallel string

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 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 ☐ Multi-stage/DV tool ☐ Multiple parallel string

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 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					

42.003.48038

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

906065748

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.

CODY NELSON — Name and title of cementer's representative

Halliburton — Cementing Company

Signature

1301 W. Webb St. — Address

Brownfield, Tx, 79316 — City, State, Zip code

575-392-0700 — Tel: Area Code Number

10/30/2019 — 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.

Katharine A Barry — Intermediate Production Tapered production Multi-stage cement shoe

Eng Tech — Title

Katharine A Barry — Signature

P.O. Box 10185 — Address

Midland Tx 79702 — City, State, Zip code

432.685-9005 — Tel: Area Code Number

2/1/2020 — Date: mo. Day yr.

Instructions for 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 14http://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
Oil and Gas Division

ELECTRIC LOG STATUS REPORT

FORM L-1

Tracking No.: 231497

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: PIEDRA OPERATING, LLC	District No. 08	Completion Date: 12/31/2019
Field Name SPRABERRY (TREND AREA) R 40 EXC	Drilling Permit No. 850696	
Lease Name UNIVERSITY 5-38 A	Lease/ID No. 53878	Well No. 2H
County ANDREWS	API No. **42-** 003-48038	

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). _____

Ann Ritchie
Signature

_____
Name (print)

_____
Title

(432) 684-6381
Phone

02/25/2020
Date

-FOR RAILROAD COMMISSION USE ONLY-

HALLIBURTON

RADIAL CEMENT BOND / CCL LOG

Company PIEDRA OPERATING
Well UNIVERSITY 5-38A #2H
Field SPRABERRY TREND
County ANDREWS State TEXAS

Company PIEDRA OPERATING
Well UNIVERSITY 5-38A #2H
Field SPRABERRY TREND
County ANDREWS State TEXAS

API No.: 42-003-48038 Serv #: 906101110

Location: 300' FSL & 975' FEL
SECTION 35, BLOCK 5
UNIVERSITY LANDS

Sec: Twp: Rge:

Other Services

GR

Permanent Datum	GROUND LEVEL	Elevation 2988.0	Elevation
Log Measured From	24 , KB Ft. above perm. datum		K.B. 3012
Drilling Measured From	KB		D.F. 3011
			G.L. 2988

Date @ Time Logged	14-NOV-2019	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	N/A
Depth - Driller	20376'	Fluid Level	FULL
Depth - Logger	9800'	Cement Top Est. Logged	9700'
Bottom - Logged Interval	9797'	Equipment / Location	11981876 / ODESSA
Top - Log Interval	9050'	Recorded by	N. ANDERSON
Max. Recorded Temp.	N/A	Witnessed by	A. DICKMAN

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
ONE	17.5"	SURFACE	1880'	13.375"	54.5#	SURFACE	1880'
ONE	12.25"	1880'	5499'	9.625"	40#	SURFACE	5499'
ONE	7.875"	5499'	20376'	5.5"	20#	SURFACE	20376'

<<< Fold Here >>>

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.: 231497

1. Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
SPRABERRY (TREND AREA) R 40 EXC	UNIVERSITY 5-38 A			
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
PIEDRA OPERATING, LLC	664930	53878	ANDREWS	08
8. Operator address including city, state, and zip code	9. Well no(s) *(see instruction E)*			
PO BOX 10485 MIDLAND, TX 79702	2H			
	10. Classification ☒ Oil ☐ Gas ☐ Other *(see instruction A)*		11. Effective Date 12/31/2019	

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	DCP OPERATING COMPANY, LP(195959)	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
SHELL TRADING (US) COMPANY(774715)	100.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 07/01/2020

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.

Name (print)

Ann Ritchie
Signature

Title

☒ **Authorized Employee of current operator**

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

ann.wtor@gmail.com
E-mail Address (optional)

02/26/2020
Date

(432) 684-6381
Phone with area code

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:	Piedra Operating, LLC	**Operator P-5 No.:**	664930
Operator Address:	P.O. Box 10485, Midland, Texas 79702		

SECTION II. WELL INFORMATION				
District No.:	08	**API No.:**	003-48038	**Purpose of Filing:**
Well No.:	2H	**Drilling Permit No.:**	850696	
Lease Name:	University 5-38A	**RRC ID or Lease No.:**		☐ Drilling Permit Application (Form W-1)
Total Lease Acres:	640.00	**Field Name:**	Spraberry (Trend Area) R 40 EXC	
Proration Acres:	160.00	**Field No.:**	85280301	☑ Completion Report (Form G-1/W-2)
Wellbore Profile	Allocation Well	**Is this a UFT field?**	Yes	
SL Record (Parent) Well Drilling Permit No.:		**County:**	Andrews	

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)

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

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

Lease acreage has been updated since completion of University 5-38 from 1294.8 acres to 640 acres., therefore, allocation has been updated for #1H.

Attach Additional Pages As Needed. ☐ **No additional pages** ☑ **Additional Pages:** 1 **(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.

Ann E. Ritchie, Regulatory — **Name and title (type or print)**

ann.wtor@gmail.com — **Email** (include email address *only* if you affirmatively consent to its public release)

Signature

P.O. Box 10485	Midland	Texas	79702	432-684-6381	02/24/20
Address	**City,**	**State,**	**Zip Code**	**Tel: Area Code Number**	**Date: mo. day yr.**

RAILROAD COMMISSION OF TEXAS

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

Acreage Designation

Filer is the owner or lessee of all or an undivided portion of the minerals under each tract listed below and has the legal right to drill on each tract traversed by the well that will have perforations or other take points open in the interval of the applied-for field(s). All tracts listed will actually be traversed by the wellbore or the filer has pooling authority or other contractual authority, such as a production sharing agreement, authorizing inclusion of the non-drill site tract in the acreage assigned to the well.

SECTION V. LISTING OF ALL TRACTS CONTRIBUTING ACREAGE TO AN RRC DESIGNATED DEVELOPMENTAL UNIT THAT IS NOT A SINGLE LEASE, POOLED UNIT, OR GROUP OF TRACTS UNITIZED BY CONTRACT FOR PURPOSES OF SECONDARY RECOVERY

	RRC ID No., Lease No. or Tract ID	Lease Name	Beginning Lease Acres	Allocated Lease Acres	Ending Lease Acres	Operator Name and Operator No. (if different from filing operator)
A	Tract 1	Tract 1	320.00	80.00	240.00	
B	Tract 2	Tract 2	320.00	80.00	240.00	
C						
D						
E						
F						
G						
H						
		Total Acreage =	**640.00**	**160.00**	**480.00**	

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 VI. LISTING OF ALL WELLS IN THE APPLIED FOR REGULATORY FIELD AS LISTED IN SECTION II, AND ALLOCATING ACREAGE FOM ANY OR ALL TRACTS LISTED IN SECTION V BY FILER

RRC ID No. or Lease No.	Lease Name	API No.	Well No.	Profile	SWR 38 Except. (Y/N)	*Total Acres Assigned	Acres From A Tract 1	Acres From B Tract 2	Acres From	Acres From	Acres From	Acres From	Acres From	Acres From
51095	University 5-38	003-47700	1H	Alloc.	N	**160.00**	80.00	80.00						
850696	University 5-38A	003-48038	2H	Alloc.	N	**160.00**	80.00	80.00						
853688	University 5-38B	003-48097	3H	Alloc.	N	**160.00**	80.00	80.00						
853691	University 5-38C	003-48098	4H	Alloc.	N	**160.00**	80.00	80.00						
A. Total Assigned Acreage						=	**320.00**	**320.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
B. Total Assigned Horiz. Acreage						=	**320.00**	**320.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**
C. Total Assigned Vert./Dir. Acreage						=	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

***A revised P-16 is required if updating the proration acreage on an existing Allocation or PSA well utilizing acreage from a regulatory lease or undeveloped tract not listed in Section V.**
(refer to instructions)

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Groundwater Advisory Unit

Date Issued:	18 January 2018	**GAU Number:**	186621

Attention:	PIEDRA OPERATING, LLC PO BOX 10485 MIDLAND, TX 79702	**API Number:**	00347700
		County:	ANDREWS
		Lease Name:	UNIVERSITY 5-38 ALLOCATED
		Lease Number:	
Operator No.:	664930	**Well Number:**	1H
		Total Vertical Depth:	12500
		Latitude:	32.431547
		Longitude:	-102.309839
		Datum:	NAD27

Purpose: New Drill

Location: Survey-UL; Abstract-U139; Block-5; Section-35

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

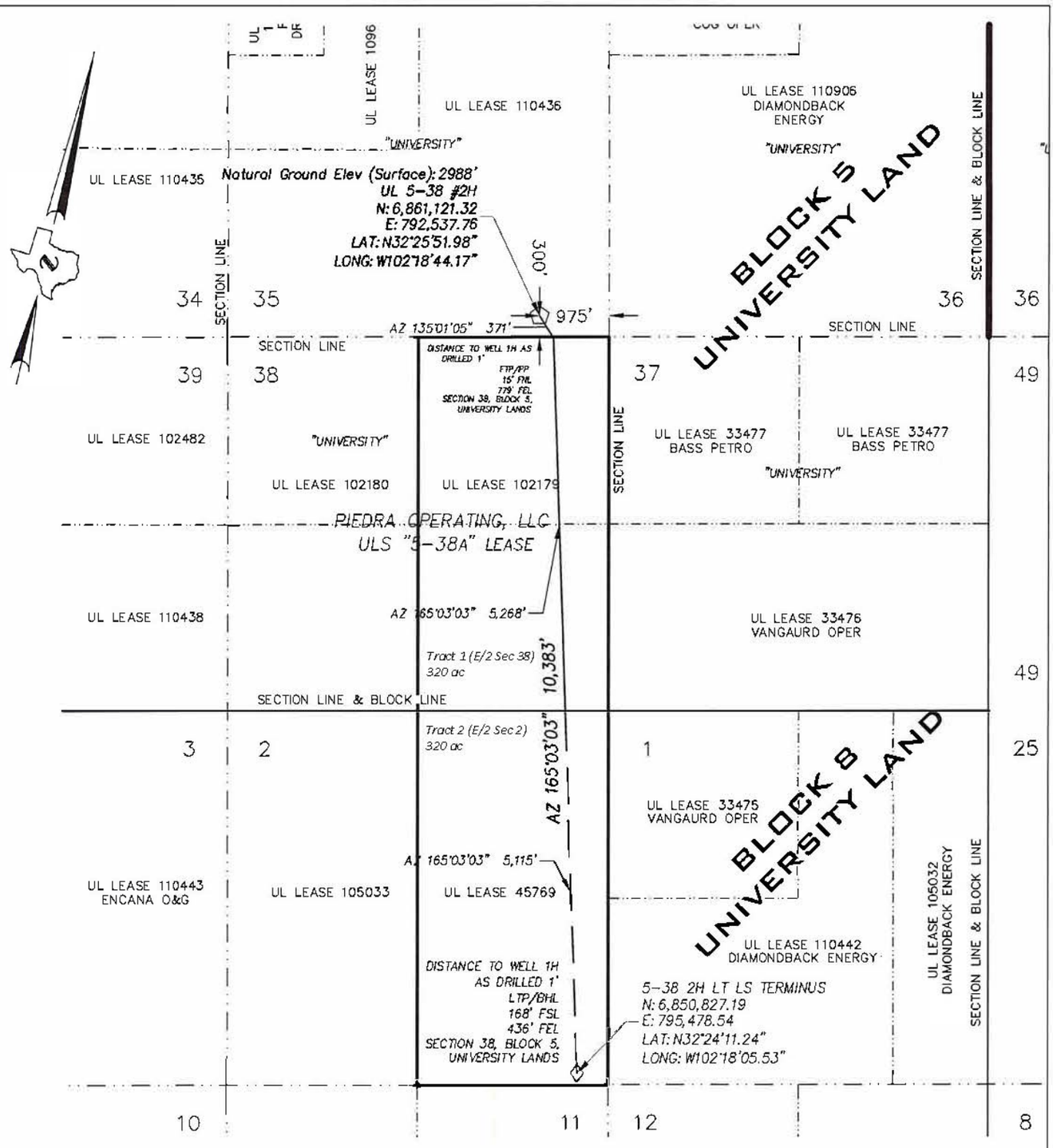
The interval from the land surface to a depth of 275 feet, and the zone from 1300 to 1750 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 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 01/10/2018. 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



GRAPHIC SCALE

0 2000' 4000'

(IN FEET)
1 inch = 2000 ft.

TOTAL ACREAGE IN LEASE 640 ACRES

UL LEASE 45769 5115 FEET

UL LEASE 102179 5268 FEET

THIS WELL IS TO BE LOCATED 15.8 MILES IN A NORTHEAST DIRECTION FROM ANDREWS WHICH IS THE NEAREST TOWN IN THE COUNTY OF THE WELL SITE.

NOTE:

COURSES, DISTANCES AND COORDINATES SHOWN HEREON ARE LAMBERT GRID AND CONFORM TO THE "TEXAS COORDINATE SYSTEM", TEXAS NORTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983. ALL DISTANCES AND COORDINATES ARE SHOWN IN GRID FEET. ELEVATION NAVD 1988

THE UNDERSIGNED DOES HEREBY CERTIFY THAT THIS LOCATION WAS THIS DAY MADE ON THE GROUND BY ME OR UNDER MY SUPERVISION AND THAT THIS PLAT IS A CORRECT REPRESENTATION THEREOF.

STATE OF TEXAS REGISTERED RJ DAUM 4826 PROFESSIONAL LAND SURVEYOR

DATED THIS 13TH DAY OF DECEMBER, 2018

RJ DAUM
TEXAS RPLS 4826

8-24-2016 Rev.
REVISED AS DRILLED TRUESHOT 1-27-2020
2-03-2020

LOCATION PLAT

PIEDRA OPERATING L.L.C.
AS DRILLED
WELL NO. 2H
UNIVERSITY 5-38A

SURFACE HOLE
300 FEET FROM THE SOUTH AND
975 FEET FROM THE EAST LINES
SECTION 35, BLOCK 5,
LAST TAKE/TERMINUS
191 FEET FROM THE SOUTH AND
61 FEET FROM THE EAST LINES
SECTION 2, BLOCK 8,
UNIVERSITY LAND
ANDREWS COUNTY, TEXAS

QUAD: FIVE WELLS RANCH PROJECT: 76489
SCALE: 1" = 2000'REV 2-28-19 JOB NO: 76,489

SCHUMANN
ENGINEERING CO.
A LATERAL LAND COMPANY
CIVIL ENGINEERING - LAND SURVEYING
800 N. MARIENFELD STREET
SUITE 100
MIDLAND, TEXAS 79701
TEXAS FIRM No. F1880 - TEXAS FIRM No. 10149500
Office (432) 684-5548