



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 04/04/2019
Tracking No.: 205314

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

OPERATOR INFORMATION

Operator Name: HUNT OIL COMPANY Operator No.: 416330
Operator Address: 1900 NORTH AKARD STREET DALLAS, TX 75201-2300

WELL INFORMATION

API No.: 42-461-40901 County: UPTON
Well No.: 108HB RRC District No.: 7C
Lease Name: UNIVERSITY 10-3 Field Name: SPRABERRY (TREND AREA)
RRC Lease No.: 20141 Field No.: 85279200
Location: Section: 15, Block: 4, Survey: UL, Abstract: U51

Latitude: Longitude:
This well is located 6.4 miles in a SE
direction from RANKIN,
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: 01/14/2019

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	05/30/2018	840569
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 07/12/2018	Date of first production after rig released: 01/14/2019
Date plug back, deepening, recompletion, or drilling operation commenced: 07/12/2018	Date plug back, deepening, recompletion, or drilling operation ended: 07/30/2018
Number of producing wells on this lease in this field (reservoir) including this well: 1	Distance to nearest well in lease & reservoir (ft.): 677.0
Total number of acres in lease: 1315.72	Elevation (ft.): 2761 GR
Total depth TVD (ft.): 8429	Total depth MD (ft.): 19708
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): 41.2
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Neutron/Density logs (combo of tools)	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries	Off Lease : No
of lease on which this well is located: 2138.0 Feet from the East Line and 1315.0 Feet from the North Line of the UNIVERSITY 10-3 Lease.	

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

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

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination		Depth (ft.): 670.0	Date: 06/01/2018
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 01/31/2019		Production method: Pumping
Number of hours tested: 24		Choke size: 64
Was swab used during this test?	No	Oil produced prior to test: 3227.00
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 716.00		Gas (MCF): 283
Gas - Oil Ratio: 395		Flowing Tubing Pressure: 350.00
Water (BBLS): 1431		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 716.0		Gas (MCF): 283
Oil Gravity - API - 60.:	39.2	Casing Pressure: 350.00
Water (BBLS): 1431		

CASING RECORD											
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - 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	750			C	757	1284.0	0	Circulated to Surface
2	Intermediate	9 5/8	12 1/4	5143			TXI+ADDS; CLASS C +ADDS	963	2433.0	0	Circulated to Surface
3	Conventional Production	5 1/2	8 1/2	19697			TXI; POZ	2750	4596.1	546	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 (ft.)	Packer Depth (ft.)/Type
1	2 7/8	7693	/

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 9339	19561.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG): 9105.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 8500		Actual maximum pressure (PSIG) during hydraulic fracturing: 8300	
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	STIMULATED USING 1,381 BBLS OF 15% HCL ACID, 15,833,198 LBS OF TOTAL PROPPANT IN 388,574 BBLS OF TOTAL FLUID.	9339	19561
2	Cement Squeeze	PERF'D AND THEN SQUEEZED WITH 56 SX OF CEMENT, 17 CU FT OF SLURRY VOLUME PUMPED WITH 13.2 LBS OF SLURRY WEIGHT; CLASS H CEMENT.	9027	9091

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
SANTA ROSA	Yes	700.0	700.0	No	NO FLOW, NOT CORROSIVE, NOT
RUSTLER	Yes	1335.0	1335.0	Yes	
YATES	Yes	2120.0	2120.0	Yes	
GRAYBURG	Yes	3604.0	3604.0	Yes	
SAN ANDRES - SALTWATER FLOW	Yes	3733.0	3733.0	Yes	
GLORIETA	Yes	4472.0	4472.0	Yes	
CLEARFORK	Yes	5667.0	5667.0	Yes	
SPRABERRY	Yes	6457.0	6515.0	Yes	
DEAN	Yes	7719.0	7747.0	Yes	
WOLFCAMP	Yes	7858.0	7918.0	Yes	
STRAWN	No			No	NOT ENCOUNTERED, BELOW TD.
DEVONIAN	No			No	NOT ENCOUNTERED, BELOW TD.
FUSSELMAN	No			No	NOT ENCOUNTERED, BELOW TD.
ELLENBURGER	No			No	NOT ENCOUNTERED, BELOW TD.
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 @ 7,850'.

RRC REMARKS

WELL IS ON ESP, NO PKR SET.

OPERATOR'S CERTIFICATION

Telephone No.: (432) 684-0601 **Date Certified:** 02/13/2019

Date Certified: 02/13/2019



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: HUNTDIL COMPANY		Operator P-S No.: 4112330			
Cementer Name: C&J ENERGY SERVICES		Cementer P-S No.: 120531			
WELL INFORMATION					
District No.: 08		County: UPTON			
Well No.: 108HB		API No.: 42-461-40901		Drilling Permit No.: 840569	
Lease Name: UNIVERSITY 10-3		Lease No.:			
Field Name:		Field No.:			
I. CASING CEMENTING DATA					
Type of Casing: <input type="checkbox"/> Conductor <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production					
Drilled hole size (in.): 17 1/2"	Depth of drilled hole (ft.): 770		Est. % wash-out or hole enlargement: 20 %		
Size of casing in O.D. (in.): 13 3/8"	Casing weight (lbs/ft) and grade: 48# J-55		No. of centralizers used: 6		
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.): 750		Top of liner (ft.):	
Hrs. waiting on cement before drill-out: 20 hrs		Calculated top of cement (ft.): SFC		Cementing date: 7/13/2018	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	260	C	REMARKS 1	619	891
2	340	C	REMARKS 2	456	656
3	157	C	REMARKS 3	209	301
Total	757			1284	1848
II. CASING CEMENTING DATA					
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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.)	Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)	Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>		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: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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.)	Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:		
Tapered string size of casing in O.D. (in.)	Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:		
Was cement circulated to ground surface (or bottom of cellar) outside casing? YES <input type="checkbox"/> NO <input type="checkbox"/>		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							
REMARKS 1 2%SMS + 1/4" sk Celluloflake							
REMARKS 2 1%CaCl2							
REMARKS 3 NEAT							

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.

WILL ZUMSTEIN SERVICE SUPERVISOR

Name and title of cementer's representative

C&J ENERGY SERVICES

Cementing Company

[Signature]
Signature

2611 E I-20

Address

Midland TX 79706

City, State, Zip Code

432-686-8559

Tel: Area Code Number

7/13/2018

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.

Joe Sparrow
Typed or printed name of operator's representative

Rig Foreman
Title

[Signature]
Signature

1900 N Akard St

Address

Dallas TX 75201

City, State, Zip Code

214-978-8000

Tel: Area Code Number

7/14/18

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 78712967).

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 cements approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readme5ext.TecPage?st=R&app=9&p_dir=&p_rloc=&poloc=&p_ploc=&p_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.



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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:	Hunt Oil Company	Operator P-S No.:	416330
Cementer Name:	Schlumberger	Cementer P-S No.:	754900

WELL INFORMATION

District No.:	08	County:	Upton
Well No.:	108H	API No.:	42-461-4090
Lease Name:	University 10-3 80	Drilling Permit No.:	840569
Field Name:	Spraberry	Lease No.:	
		Field No.:	

I. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input checked="" type="checkbox"/> Intermediate	<input type="checkbox"/> Litter	<input type="checkbox"/> Production
Drilled hole size (in.):	12 1/4	Depth of drilled hole (ft.):	5192	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:	17
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If no for surface casing, explain in Remarks.		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):	5143	Setting depth shoe (ft.):	
			Surface	Top of liner (ft.):	
				Setting depth liner (ft.):	
				Cementing date:	18-Jul-18

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	841	TDI + Adds	Remarks	2270.7	2900
2	122	Class C + Adds	Remarks	162.3	800
3					
Total	963			2433.0	3200

II. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe	<input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> Yes	<input type="checkbox"/> 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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV tool	<input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> Yes	<input type="checkbox"/> 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					

- 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/readat.c?ent.TacPage?sl=R&app=9&p_dir=&p_loc=&p_lloc=&p_ploc=&p_lsp_tac=&tl=1&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.



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CEMENTING REPORT

Form W-15

Rev. 08/2014

Cementor: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION					
Operator Name: Hunt Oil Company			Operator P-S No.: 416330		
Cementor Name: Schlumberger			Cementor P-S No.: 754900		

WELL INFORMATION					
District No.: 02		County: Upton			
Well No.: 108HB		API No.: 42461-40901		Drilling Permit No.: 840569	
Lease Name: University 10-3 80		Lease No.:			
Field Name: SPRAY BERRY (TRENCH AREA)		Field No.:			

I. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input checked="" type="checkbox"/> Production
Drilled hole size (in.):	8 1/2	Depth of drilled hole (ft.):	19708	Est. % wash-out or hole enlargement:	20%
Size of casing in O.D. (in.):	5.5	Casing weight (lbs/ft) and grade:	20 / P110	No. of centralizers used:	247
Was cement circulated to ground surface (or bottom of cellar) outside casing?			Setting depth shoe (ft.):	Top of liner (ft.):	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no for surface casing, explain in Remarks.			19697	Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		546	Cementing date: 29-Jul-18

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	221	TXI	Remarks	1178.82	36.63
2	222	POZ D35H	Remarks	3417.26	1548.8
3					
Total	2750			4596.08	19151

II. CASING CEMENTING DATA					
Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:		Lower:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing?				<input type="checkbox"/> Yes <input type="checkbox"/> No	
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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)			
Upper:	Lower:	Upper:		Lower:	
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used	
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing?				<input type="checkbox"/> Yes <input type="checkbox"/> No	
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: D049 lb/sk + D065 0.1% + D800 0.85% + D154 7% + D174 2% + D047 0.02gal/sk + B477 0.5% + D208 0.1% + D177 0.02gal/sk
#2: 5050D35H 84lb/sk + D020 3% + D238 0.3% + D208 0.1% + D079 0.25% + D013 0.25% + D065 0.1% + D047 0.02gal/sk
#3:
#4:

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.

<u>Alex Neamtu, FE</u>	<u>Schlumberger</u>	<u>[Signature]</u>
Name and title of cementer's representative	Cementing Company	Signature
<u>7104 W County Rd 116</u>	<u>Midland</u>	<u>TX</u>
Address	City,	State,
<u>79706</u>	<u>(432) 681-1100</u>	<u>July 29, 2018</u>
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 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.

<u>CHRIS ABSHIRE</u>	<u>Drilling Foreman</u>	<u>[Signature]</u>
Typed or printed name of operator's representative	Title	Signature
<u>1900 N. ANARD ST. DALLAS, TX 75201</u>	<u>214-978-8000</u>	<u>07-30-18</u>
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.

- 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.
- 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).
- 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=A&app=9&p_dir=&p_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=A&app=9&p_dir=&p_loc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&ri=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.
- 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.
- 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.
- 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.
- 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

Cementor: Fill in shaded areas.

Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name:	Hunt Oil Company	Operator P-S No.:	4110330
Cementor Name:	Schlumberger	Cementor P-S No.:	754900

WELL INFORMATION

District No.:	08	County:	Upton
Well No.:	108HB	API No.:	461-40901
Lease Name:	University 10-3 80	Drilling Permit No.:	840569
Field Name:	Spraberry (Trend Area)	Lease No.:	
		Field No.:	

I. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Setting depth shoe (ft.):		Top of liner (ft.):	
If no for surface casing, explain in Remarks.		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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe	<input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> Yes <input type="checkbox"/> 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:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV tool	<input type="checkbox"/> 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.)		Tapered string depth of drilled hole (ft.)				
Upper:	Lower:	Upper:	Lower:			
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper:	Lower:	Upper:	Lower:	Upper:	Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing?	<input type="checkbox"/> Yes <input type="checkbox"/> 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					

Schlumberger-Private

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	9-Jun-19						
Size of hole or pipe (in.)	5 1/2"						
Depth to bottom of tubing or drill pipe (ft.)	14697						
Cement retainer setting depth (ft.)	8600						
CIBP setting depth (ft.)	9271						
Amount of cement on top of CIBP (ft.)							
Sacks of cement used	56						
Slurry volume pumped (cu. ft.)	17						
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)	13.2						
Class/type of cement	H						
Perforate and squeeze (YES/NO)	Yes						
REMARKS							
#1: 0.8% BWOB B547, 2% BWOB D174, 0.75% BWOB D065, 0.02 gps D175A, 8lps B056, 0.1 gps D177							

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.

Matthew Lajunesse, FS
Name and title of cementer's representative

Schlumberger
Cementing Company

[Signature]
Signature

7104 W County Rd 116 Midland TX 79706
Address City, State, Zip Code

432-681-1100
Tel: Area Code Number

January 9, 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.

Harry Blackstock
Typed or printed name of operator's representative

Sr. Completion Engineer
Title

[Signature]
Signature

1900 N. Akard St Dallas Tx 75201
Address City, State, Zip Code

214-978-8251
Tel: Area Code Number

01-18-2019
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.

- 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.
- 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).
- 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_loc=&p_loc=&p_loc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_loc=&p_loc=&p_loc=&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.
- 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.
- 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.
- 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.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

Tracking No.: 205314

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: HUNT OIL COMPANY	District No. 7C	Completion Date: 01/14/2019
Field Name SPRABERRY (TREND AREA)	Drilling Permit No. 840569	
Lease Name UNIVERSITY 10-3	Lease/ID No. 20141	Well No. 108HB
County UPTON	API No. 42- 461-40901	

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). _____

Kayla Butler

Signature

HUNT OIL COMPANY

Name (print)

Production Tech

Title

(432) 684-0601

Phone

02/11/2019

Date

-FOR RAILROAD COMMISSION USE ONLY-



UNDERDOG WIRELINE, LLC.

Radial Cement Bond Gamma Ray CCL Log

Company Hunt Oil Company Well University 10-3 #108HB Field Spraberry (Trend Area) County Upton State Texas	Country U.S.A.	Company Hunt Oil Company Well University 10-3 #108HB Field Spraberry (Trend Area) County Upton State Texas		Country U.S.A.			
		Location:		API # : 42-461-40901		Other Services	
		2138' FEL & 1315' FNL Sec. 15, Blk. 4 Survey UL		JB/GR		Elevation	
		SEC TWP RGE		Permanent Datum Ground Level Elevation 2760' Log Measured From Kelly Bushing 27' A.P.D. Drilling Measured From Kelly Bushing		K.B. 2787' D.F. 2786' G.L. 2760'	
Date		14-Oct-2018					
Run Number		Two					
Depth Driller		19708'					
Depth Logger		8700'					
Bottom Logged Interval		8692'					
Top Log Interval		2050'					
Open Hole Size		-					
Type Fluid		Water					
Density / Viscosity		N/A					
Max. Recorded Temp.		N/A					
Estimated Cement Top		3050'					
Time Well Ready		On Arrival					
Time Logger on Bottom		2:40 PM					
Equipment Number		W-002					
Location		Midland, Tx					
Recorded By		A. De La Rosa					
Witnessed By		D. Ward					
Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
Casing Record		Size	Wgt/Ft	Top		Bottom	
Surface String		13.375"	48# J-55	Surface		750'	
Prot. String		9.625"	40# HCK-55	Surface		5143'	
Production String		5.5"	20# B-110	Surface		19697'	

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.: 205314

1. Field name exactly as shown on proration schedule SPRABERRY (TREND AREA)		2. Lease name as shown on proration schedule UNIVERSITY 10-3				
3. Current operator name exactly as shown on P-5 Organization Report HUNT OIL COMPANY		4. Operator P-5 no. 416330	5. Oil Lse/Gas ID no 20141	6. County UPTON	7. RRC district 7C	
8. Operator address including city, state, and zip code 1900 NORTH AKARD STREET DALLAS, TX 75201-2300		9. Well no(s) (see instruction E) 108HB				
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 01/14/2019		
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 MIDSTREAM SERVICES LLC(836037)		0040	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
AMID SILVER DOLLAR PIPELINE LLC(019975)						90.0
AMID CRUDE TRUCKING LLC(019971)						10.0
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>04/04/2019</u>						
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 _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ 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.						
HUNT OIL COMPANY Name (print) <u>Production Tech</u> Title <u>kbutler@huntoil.com</u> E-mail Address (optional)				Kayla Butler Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) _____ Date <u>12/18/2018</u> Phone with area code <u>(432) 684-0601</u>		

Date: mo. day yr.

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 01 June 2018**GAU Number:** 198563**Attention:** HUNT OIL COMPANY
1900 NORTH AKARD STREET
DALLAS, TX 75201**Operator No.:** 416330**API Number:** 46140898
County: UPTON
Lease Name: UNIVERSITY 10-3
Lease Number:
Well Number: 105HB
Total Vertical Depth: 8300
Latitude: 31.183809
Longitude: -101.832281
Datum: NAD27**Purpose:** New Production Well**Location:** Survey-UL; Abstract-U51; Block-4; Section-15

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 20 feet below the base of the Cretaceous-age beds must be protected. The base of the Cretaceous is estimated to occur at a depth of 650 feet.

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. Unless stated otherwise, this recommendation is for normal drilling, production, and plugging operations only.

This determination is based on information provided when the application was submitted on 05/31/2018. 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

Form GW-2 P.O. Box 12967 Austin, Texas 78771-2967 512-463-2741 Internet address: www.rrc.texas.gov
Rev. 02/2014



UL
A-U38
SEC. 2
BLK. 4

UL
A-U39
SEC. 3
BLK. 4

UL
A-U40
SEC. 4
BLK. 4

LINE	ADDITIONAL	DISTANCE
L1	SH. TO POP	299.02'
L2	POP TO FTP	1,599.52'
L3	FTP TO TRACT	5,129.12'
L4	TRACT TO LTP	5,692.85'
L5	LTP TO B-H	117.10'
POP TO LTP TOTAL = 10,218.59'		

UNIVERSITY 10-3 LEASE
1,315.72 ACRES

UL
A-U47
SEC. 11
BLK. 4

UL
A-U45
SEC. 9
BLK. 4



- NOTE:
- COORDINATES SHOWN ARE BASED ON NAD27 TEXAS STATE PLANE COORDINATE SYSTEM, TOWNSHIP 10N, RANGE 10E.
 - ALL LEASE, LATERAL, AND TRACT INFORMATION WAS PROVIDED BY HUNT OIL CO.
 - THIS PLAT IS A COMBINATION OF OFFICE AND ON THE GROUND SURVEY.
 - THIS PLAT IS PREPARED FOR TOWNSHIP 10N, RANGE 10E, SECTION 10, BLOCK 4, AND SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.
 - DRILL PATH BASED ON DATA PROVIDED BY HUNT OIL COMPANY.
 - * INDICATES WELL LOCATION PROVIDED FROM RECORD OF TOWNSHIP 10N, RANGE 10E.

UL
A-U50
SEC. 14
BLK. 4

UL
A-U51
SEC. 15
BLK. 4

UL
A-U52
SEC. 16
BLK. 4

SCALE: 1" = 1000 FEET

WELL NUMBER	LEASE CALLS	SURVEY CALLS	MEASURED DEPTH	NAD27 TEXAS STATE PLANE COORDINATES	NAD27 GEOGRAPHIC COORDINATES(DMS)	NAD27 GEOGRAPHIC COORDINATES(DD)	NAD83 GEOGRAPHIC COORDINATES(DD)
108HB SHL	OFF LEASE 1,215' FNL	2,158' FEL 1,215' FNL	---	Y = 554,960 X = 1,531,376	LAT. = 31°11'01.48" N LONG. = 101°40'55.22" W	LAT. = 31.183798° N LONG. = 101.682045° W	LAT. = 31.183798° N LONG. = 101.682045° W
108HB POP	OFF LEASE 1,071' FNL	---	5,067.0	Y = 555,123 X = 1,532,112	LAT. = 31°11'03.82" N LONG. = 101°40'58.92" W	LAT. = 31.184389° N LONG. = 101.682632° W	---
108HB FTP	405' FEL 162' FNL	---	5,208.0	Y = 555,308 X = 1,533,135	LAT. = 31°11'07.00" N LONG. = 101°40'55.51" W	LAT. = 31.187766° N LONG. = 101.682422° W	---
108HB LTP	347' FEL 247' FNL	---	10,561.0	Y = 555,545 X = 1,533,405	LAT. = 31°11'07.00" N LONG. = 101°40'53.51" W	LAT. = 31.187766° N LONG. = 101.682162° W	---
108HB B-H	347' FEL 100' FNL	347' FEL 100' FNL	10,708.1	Y = 555,692 X = 1,533,607	LAT. = 31°11'07.00" N LONG. = 101°40'53.51" W	LAT. = 31.187766° N LONG. = 101.682162° W	---

I HEREBY STATE THAT THIS PLAT SHOWS THE SUBJECT LOCATION AS STAKED ON THE GROUND 1/30/15. THIS SHOULD NOT BE CONSIDERED A BOUNDARY SURVEY.



SALVADOR A. SALAS
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6612

LNV
SURVEYING
ARCHITECTS
ENGINEERS

A POST AS-DRILLED WELL PLAT FOR:
HUNT OIL COMPANY
UNIVERSITY 10-3 #108HB
SITUATED IN THE UNIVERSITY LAND SURVEYS, A-U51, SECTION 15, BLOCK 4, A-U46, SECTION 10, BLOCK 4, AND A-U39, SECTION 3, BLOCK 4, APPROXIMATELY 6.8 MILES SOUTHEAST OF RABON IN UPTON COUNTY, TEXAS.

Survey Date: 01/15/19
Surveyed By: RJA/MD
Drawn by: RS
Checked by: CL/AA
Job #: 140241.128