

Form W-2

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

Tracking No.:

Approved 03/22/2018

187287

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

OPERATOR INFORMATION

Operator Name: ANADARKO E&P ONSHORE LLC Operator No.: 020528

Operator Address: ATTN FRANK A. DAVIS PO BOX 1330 HOUSTON, TX 77251-1330

WELL INFORMATION

 API No.: 42-301-33110
 County: LOVING

 Well No.: 14H
 RRC District No.: 08

Lease Name: YELLOWJACKET UL UNIT 19-3 Field Name: PHANTOM (WOLFCAMP)

RRC Lease No.: 47109 Field No.: 71052900

Location: Section: 3, Block: 19, Survey: UL, Abstract: U3

Latitude: Longitude:

This well is located 10.8 miles in a NE

direction from MENTONE,

which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only

Type of completion: Other/Recompletion

Well Type: Producing Completion or Recompletion Date: 05/23/2017

Type of Permit Date
Permit to Drill, Plug Back, or Deepen

Date
11/29/2016

Permit No.
820301

Rule 37 Exception
Fluid Injection Permit

O&G Waste Disposal Permit

Other:

COMPLETION INFORMATION

Spud date: 03/02/2017 Date of first production after rig released: 05/23/2017

Date plug back, deepening, recompletion, or drilling operation commenced: 03/02/2017 Date plug back, deepening, recompletion, or drilling operation ended: 05/23/2017

Number of producing wells on this lease in Distance to nearest well in lease &

this field (reservoir) including this well: 2 reservoir (ft.): 330.0

Total number of acres in lease: 967.62 Elevation (ft.): 2770 GL

Total depth TVD (ft.): 11525 Total depth MD (ft.): 18879

Plug back depth TVD (ft.): 17492

Was directional survey made other than
Rotation time within surface casing (hours):
98.5
Is Cementing Affidavit (Form W-15) attached?
Yes

Recompletion or reclass? Yes **Multiple completion?** No

Type(s) of electric or other log(s) run: Gamma Ray (MWD)

Electric Log Other Description: GAMMA

Location of well, relative to nearest lease boundaries Off Lease: No

of lease on which this well is located: 330.0 Feet from the South Line and

670.0 Feet from the East Line of the

YELLOWJACKET UL UNIT 19-3 **Lease.**

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

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

PACKET: N/A

W2: N/A

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

GAU Groundwater Protection Determination Depth (ft.): 1000.0 Date: 11/15/2016

SWR 13 Exception Depth (ft.): 5151.0

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 05/28/2017 Production method: Flowing

Number of hours tested: 24 Choke size: 44/64

Was swab used during this test? No Oil produced prior to test: 896.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLS): 376.00 **Gas (MCF):** 692

Gas - Oil Ratio: 1840 Flowing Tubing Pressure: 1128.00

Water (BBLS): 7780

CALCULATED 24-HOUR RATE

Oil (BBLS): 376.0 Gas (MCF): 692

Oil Gravity - API - 60.: 42.4 **Casing Pressure:** 1300.00

Water (BBLS): 7780

	CASING RECORD										
Row	Type of Casing		Hole Size (in.)	Setting Depth (ft.)		Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	•	Top of Cemen	t Determined
$\frac{Row}{1}$	Surface	9 5/8	12 1/4	5073	Deptii (it.)	Deptii (it.)	C	1312	2870.0	1211	By Calculation
2	Surface	9 5/8	12 1/4	5073		1211	С	598	1507.0		Circulated to Surface
3	Intermediate	7	8 3/4	11650			Н	766	1502.0	3144	Calculation

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

TUBING RECORD							
Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type				
1	2 7/8	10812	10789 / SUPERIOR RETRIEVABLE				

PRODUCING/INJECTION/DISPOSAL INTERVAL							
Row	Open hole?	From (ft.)	<u>To (ft.)</u>				
1	No	L1 11861	17322.0				

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 Actual maximum pressure (PSIG) during hydraulic

hydraulic fracturing treatment: 8900 fracturing: 8700

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	314031.14 BBLS FLUID AND 13980560 LBS PROPPANT	11861	17322
2	Other	LINER STUCK @ 17492. UNABLE TO FISH OUT. TOP OF FISH 17492	17492	18879

		FORMAT	ION RECORD		
Formation	ons Encour	tered Depth T	VD (ft.) Depth I	Is format MD (ft.) isolated	
RED BLU	JFF N	0		No	NOT PRESENT
BELL CAN	YON Y	es 4986	6.0 498	36.0 Yes	
BRUSHY CA	ANYON Ye	es 7328	8.0 732	28.0 Yes	
DELAWA	ARE Y	es 496°	1.0 496	61.0 Yes	
CHERRY CA	ANYON Ye	es 593°	1.0 593	31.0 Yes	
BONE SPR	RINGS Ye	es 859 ⁻	1.0 859	91.0 Yes	
WOLFCA	AMP Ye	es 1141	3.0 116	94.0 Yes	
PENNSYLV	'ANIAN N	0		No	BELOW TD
STRAW	VN N	0		No	BELOW TD
ATOKA - HIGH F	PRESSURE N	0		No	BELOW TD
MORRO	DW N	0		No	BELOW TD
DEVONI	IAN N	0		No	BELOW TD
FUSSEL	MAN N	0		No	BELOW TD
ELLENBU	RGER N	0		No	BELOW TD

Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?

Is the completion being downhole commingled (SWR 10)?

No

REMARKS

KOP @ 10835. PREVIOUS IP (TRACKING 176006)FILED WITH MISTAKEN BOTTOM PERF. FILING THIS WRO TO CORRECT THE PRODUCING PERFS FROM 11861-17372 AND CHANGING TO 11861-17322.

No

RRC REMARKS
PUBLIC COMMENTS:
[RRC Staff 2018-02-12 10:49:23.586] EDL=5461 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well
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:Christine SmithTitle:Regulatory Analyst IITelephone No.:(432) 247-3549Date Certified:02/12/2018

Rev. 08/2014

Operator Name:

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

RAILROAD COMMISSION OF TEXAS

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

CEMENTING REPOR

Anadarko E&P Onshore, LLC

CEMENTING REPORT	
OPERATOR INFORMATION	

Operator Name:	Anadarko I	E&P Onshore, LLC Operator P-5 No.: 020578			
Cementer Name: BJ Serv	rices, LLC		Cementer P-5 No.: 403101		
State English to the State of	and the second second	and the state of the state of the state of			
		WELLIN	VEORMATION	AUTO PROPERTY OF THE PARTY OF T	
District No.: DA			County:	Lov	ing
Well No.:		#14H	API No.: 42.301.331		
Lease Name:	Yellowiac	ket UL Unit 19-3	Lease No.:	U Dinnig i Cinnic	0 2030 1
Field Name: Phanton			Field No.: 71052900		
T TOTAL OFF	moti carry 1	Colorador A A ANGELO -	71032900)	
DECEMBER OF THE PROPERTY OF TH		I CASING C	EMENTING DATA	AND DESCRIPTION OF THE PARTY OF	
Type of casing:	Conductor.				
Drilled hole size (in.):	Conductor	Surface	Intermediate		Production
Size of casing in O.D. (in.	-	Depth of drilled hole (f		Est. % wash-out or hole en	llargemenr.
	77 7 7 7	Casing weight (lbs/ft) a		No. of centralizers used	
Was cement circulated to			Setting depth shoe (ft.)	The second secon	
casing? If no for surface				Setting depth li	ner (ft.):
Hrs. waiting on cement b	etore drill-out:	Calculated top of ceme		Cementing date:	3/4/2017
		S	LURRY		
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1					
2					
3					
Total	A CONTRACTOR	0	A CAMPANY SOUTH	0	Ó
	190	there's and the	projections the At Industries	I come of Parish and a second	Service and the service and th
		II. CASING C	EMENTING DATA		STATE OF THE PERSON NAMED IN
Type of casing:	Surface Interr	nediate Production	Tapered production	Multi-stage cement shoe	Multiple parallel strings
Drilled hole size (in.): 12		Depth of drilled hole (f		Est. % wash-out or hole er	
Size of casing in O.D. (in.		Casing weight (lbs/ft) a		No. of centralizers used:3	
Tapered string drilled ho		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Tapered string drilled h		,
Tapered string size of cas		Tanarad string casing u	veight(lbs/ft) and grade		-11
		tom of cellar) outside casi		Tapered string no. of centr	
Hrs. waiting on cement b		Calculated top of ceme	ng? YES V NO	Setting depth shoe (ft) 50	
1113. Waiting off Centent L	eiore arm-out. 247	calculated top of ceine	LURRY	Cementing date:	3/4/2017
Chuma Na	No of Cooks			1 11 (6)	
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	1014	С	REMARKS	2474	7900
2	298	C	REMARKS	396	1264
3					
Total	1312 -			2870 •	9164 •
		III. CASING (CEMENTING DATA		
Type of casing:	Surface Interm	ediate Production	Tapered production	✓ Multi-stage cement/DV tool	DM. (Male asset) of states
Drilled hole size (in.): 12		Depth of drilled hole (f		Est. % wash-out or hole er	Multiple parallel strings
Size of casing in O.D. (in.		Casing weight (lbs/ft) a		No. of centralizers used:	naigement.
Tapered string drilled ho		casing weight (ibs/ft) a	Tapered string depth of		
Upper:					
	Lower:	Toward string and an a	Upper:	Lower:	
Tapered string size of cas			veight(lbs/ft) and grade	Tapered string no. of centr	
Upper:	Lower:		Lower:	Upper: Low	
		tom of cellar) outside casi		Setting depth tool (ft): 121	
Hrs. waiting on cement b	erore arill-out:	Calculated top of ceme		Cementing date:	3/4/2017
AV Substitution	1		LURRY		
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	598	C	REMARKS	1507	4811
2				U DESTRUCTION OF THE PROPERTY	
3					
Total					

	CEMENTING TO	SQUEEZE, PLUG	BACK OR PLUG A	ND ABANDON			7 B 2 B 2 B 20
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date						1. 12.50	1200 117
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)				7			
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)		STATE I	E 7. F. 19				
Amount of cement on top of CIBP (ft.)	N. P. P. CO. S. L.						
Sacks of cement used							
Slurry volume pumped (cu. ft.)		THE RESERVE					
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)	t alie	AUG TO WIND					
Class/type of cement				E CHARLES			
Perforate and squeeze (YES/NO)		CAUTE OF B					111111

REMARKS

1ST STAGE LEAD 1014 SKS CLASS C,CA-400 .66%, CA-200 3.58%, CDF-100 .19%, CR-100 .76% 1ST STAGE TAIL 298 SKS CLASS C CDF-100 .19%, CR-100 .24%. 2ND STAGE LEAD 598 SKS CLASS C CA-400 2.82%, CA-200 6.16%, CDF-100 .19%.—DID NOT CIRCULATE CMT ON 1ST STAGE—CIRCULATED CMT ON 2ND STAGE 165 8BL 368 SKS CMT 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.

JEREMY DICKMAN	BJ Services, LLC	Mana 6126	
Name and title of cementer's representative	Cementing Company	Signature	
8711 W. CR 127	Midland Texas 79706	(432) 563-4440	3/4/2017
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.

Typed or printed name of operator's representative

Regulatory Analyst

Chartie Smith

6.12.17

1 0

Po Rox 1330

Houston, Tx 77251
City, State, Zip Code

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 representatives. 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 Commisssioner's Online System (https://webapps.rrc.state.bx.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 78711-2697).
- 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 fromt 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.bx.us/pls/pub/readtac\$ext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc&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% (or30% 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 Cement 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 sumbit 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.

1701 N. Congress P.O. Box 12967 Austin, Texas 78701-2967 Form W-15 Rev. 08/2014

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

CEMENTING REPORT

		OPERATO	OR INFORMATION		
Operator Name:	Anadarko	E&P Onshore, LLC	Operator P-5 No.: 02	0629	
Cementer Name: BJ Se	rvices, LLC		A THE RESERVE OF THE PARTY OF T	103101	THE PARTY OF THE PARTY OF
				.00202	Commence of the control of the
200	对对,但是是是是	WELL	INFORMATION	K MANAGE TO	
District No.: 08			County:	L	oving
Well No.:		#14H	API No .: 42.301.3311	O Drilling Perm	nit No.: 920301
Lease Name:	Yellowjac	cket UL Unit 19-3	Lease No.:		USV.)VI
Field Name: Phanton	1 (Wolfcamp)		Field No.: 7/05290	0	
GENERAL SEE					
Type of casing:			CEMENTING DATA		
Drilled hole size (in.):	Conductor	Surface	Intermediate	Liner	Production
Size of casing in O.D. (ir		Depth of drilled hole	(ft.): 1(1 ₆ 50	Est. % wash-out or hole	enlargemen* L \).
		Casing weight (lbs/ft)	and grade: 29 / HCP·110	No. of centralizers used:	
cosing? If no fee and	to ground surface (or bo	ttom of cellar) outside	Setting depth shoe (ft.)	Contract Con	
Casingr ir no for surrace	e casing, explain in Rema		11650	Setting depth	liner (ft.): _
Hrs. waiting on cement	before drill-out: 24	Calculated top of cem		Cementing date:	3/11/2017
et		Land Control of the C	SLURRY		
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	* 386	H	see remarks	1038.34	6732.22
2	- 380	H	see remarks	463.6	3073.8
3					
Total	766	Н	see remarks	1501.94 *	9806.02
					ed Language de la
Type of casing:			CEMENTING DATA		
Drilled hole size (in.):	Surface Intern	mediate Production	Tapered production	Multi-stage cement shoe	Multiple parallel strings
Size of casing in O.D. (in	1	Depth of drilled hole		Est. % wash-out or hole	enlargement:
		Casing weight (lbs/ft)		No. of centralizers used:	
Tapered string drilled he			Tapered string drilled h		mal Iri
Tapered string size of ca		Tapered string casing	weight(lbs/ft) and grade	Tapered string no. of cer	ntralizers used
Was tellient circulated	to ground surrace (or bot	tom of cellar) outside cas		Setting depth shoe (ft):	
Hrs. waiting on cement	perore drill-out:	Calculated top of ceme		Cementing date:	3/11/2017
Clause Ma	The state of the s	and the state of t	SLURRY		
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	des Ballier Mark				
2					
3			AL SECTION AND AND ADDRESS OF THE PARTY AND AD		国民政治公司
Total			and all the second		
		III. CASING	CEMENTING DATA		
Type of casing:	Surface Interme	ediate Production	Tapered production	Multi-stage cement/DV tool	Multiple parallel strings
Drilled hole size (in.):		Depth of drilled hole (it.):	Est. % wash-out or hole	enlargement.
Size of casing in O.D. (in	.):	Casing weight (lbs/ft) a	and grade:	No. of centralizers used:	
Tapered string drilled ho	ole size (in.)		Tapered string depth of		
Upper:	Lower:		Upper:	Lower:	
Tapered string size of ca	sing in O.D. (in.)	Tapered string casing v	veight(lbs/ft) and grade	Tapered string no. of cen	
Upper:	Lower:	Upper:	Lower:	(Indiana)	ower:
Nas cement circulated t	o ground surface (or bot	tom of cellar) outside casi	ing? TYES NO	Setting depth tool (ft):	ower.
drs. waiting on cement l	before drill-out:	Calculated top of ceme		Cementing date:	2/11/2017
			SLURRY	3.5.5	3/11/2017
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)
1	The second second	正是其他的 中国共			meight (it.)
2	A LONG TO	A LAW CLASSICS	AND AND THE SHAPE		
3	de de de de la constitución de l				

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	DILLO UE	
Cementing Date				, 200117	PLUG #5	PLUG #6	PLUG #7
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.)	8 720 5 0				9.5		
Sacks of cement used	THE WALKER OF	CONTRACTOR OF THE PARTY OF THE					
Slurry volume pumped (cu. ft.)							
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							WHEELE PARTY
Slurry weight (lbs/gal)							9.1
Class/type of cement					B. CHARLET		
Perforate and squeeze (YES/NO)				CONTRACTOR S		ALL OF LOND	A TISON

REMARKS

LEAD CEMENT CLASS H 47/37 POZMIX. 8.40% GEL, 5.0LB/SK SODIUM CHLORIDE, 0.42% SODIUM METASILICATE, 0.17% DEFOAMER, 5.0LB/SK KOL-SEAL, 0.25LB/SK FLO-SEAL, 0.25LB/SK COPOLYMER FIBER, 0.55% LTR. TAIL 47/37 POZMIX 1.68% GEL, 0.30% FLUID LOSS, 0.26% RETARDER.

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.

Chris Caylor Name and title of cementer's representative	BJ Services, LLC	Chris Cayler Signature		
wante and title of cementer's representative	Cementing Company			
8711 W. CR 127	Midland Texas 79706			
Address	City, State, Zip Code	(432) 563-4440 Tel: Area Code Number	3/11/2017	

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 am authorized to make this certification, that I complete to the best of my knowledge. This certification covers all well data.

Christing Stith
Typed or printed name of operator's representative

PO Box 1330

Houston, Tr. 77251

Address

City, State, Zip Code

Analyst

Christing Smith

Signature

432.747.3649

Tel: Area Code Number

Date: mo Day, vr.

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 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
- 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 representatives. 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 Commisssioner'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 78711-2697).
- 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 fromt the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an 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_dire=&p_rloc=&p_tloc&pg=1&p_tac=&ti=16&pt=1&ch=3&rl+14). Cementing companies, service regulations.
- D. Estimated % wash-out: If the estimated % wash-out is less than 20% (or30% 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 Cement 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 sumbit 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.

1701 N. Congress P.O. Box 12967

Form W-15

Rev. 08/2014

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

Austin, Texas 78701-2967 **CEMENTING REPORT**

		OPERATOR	INFORMATION					
Operator Name:	Anadarko	E&P Onshore, LLC	Operator P-5 No.: 6	20570				
Cementer Name: Allied	OFS, LLC		Cementer P-5 No.: 014442					
	and the second second							
		WELL INF	ORMATION			M value		
District No.: 08			County: Loving					
Well No.:		#14H	API No.: 42:301: 33110 Drilling Permit No.: 020301					
Lease Name:	Yellowjac	ket UL Unit 19-3	Lease No.:	7110	020301			
Field Name: Phonto	M (Wolfcamp)		Field No.: 7105290	10				
The second second second			110001	Adoly and runty of many many or		4		
		I. CASING CEI	VIENTING DATA		SIE LEDETAL			
Type of casing:	Conductor	Surface	Intermediate	☑ Liner	Production			
Drilled hole size (in.):6 1		Depth of drilled hole (ft.)	18674	Est. % wash-out or hole	enlargement: 70:	1		
Size of casing in O.D. (in.	.):4.5	Casing weight (lbs/ft) and	d grade:13.51/HCPIIO	No. of centralizers used	- IC	/-		
Was cement circulated t	o ground surface (or bot	ttom of cellar) outside	Setting depth shoe (ft.): Top of liner				
casing? If no for surface	casing, explain in Rema	rks. YES V NO	17492	Setting dent	h liner (ft.) 7492	7		
Hrs. waiting on cement l	pefore drill-out: 🚤	Calculated top of cement	(ft.):10723	Cementing date:				
			JRRY	Tomanang acces	3/24/2017	AT ALL COMME		
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Majaha (6)			
1	5	60 CLASS H	REMARKS	650	Height (ft.)			
2				050		6776		
3			Manager and State					
Total	5	60		650		-		
10-71 12 12 12 12 12 12	and the state of the state of	and district the recovery		050		6776		
		II. CASING CER	MENTING DATA			The state of		
Type of casing:	☐ Surface ☐ Inter	mediate Production	Tapered production					
Drilled hole size (in.):		Depth of drilled hole (ft.)	:	Multi-stage cement shoe Est. % wash-out or hole	Multiple parallel str	inas		
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and		No. of centralizers used	emargement:	11 - 1		
Tapered string drilled ho		1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Tapered string drilled i					
Tapered string size of cas	sing in O.D. (in.)	Tapered string casing wei		Tapered string no. of ce		1		
Was cement circulated to	ground surface (or bot	tom of cellar) outside casing	? YES NO	Setting depth shoe (ft):	nualizers used			
Hrs. waiting on cement b	efore drill-out:	Calculated top of cement		Cementing date:	2/24/2047	BANK TO SE		
		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	IRRY	cementing date.	3/24/2017			
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	1 11 11 10 10			
1		A MEN TO A MEN THE WORLD	Additives	voidine (ca.tc.)	Height (ft.)			
2	Mark Shares Street							
3	of the Asia design reason							
Total	PINCEL					L. Marie		
Tymo of engines			VIENTING DATA					
Type of casing:	Surface Interm	nediate Production	Tapered production	Multi-stage cement/DV tool	Multiple parallel strin	nas		
Drilled hole size (in.):		Depth of drilled hole (ft.):		Est. % wash-out or hole	enlargement:	100		
Size of casing in O.D. (in.)		Casing weight (lbs/ft) and		No. of centralizers used:				
Tapered string drilled hol			Tapered string depth of	drilled hole (ft.)				
Upper:	Lower:	the state of the s	Upper:	Lower:	200			
Tapered string size of cas		Tapered string casing weig	sht(lbs/ft) and grade	Tapered string no. of cer	tralizers used			
Upper:	Lower:	Upper: Lov	ver:		ower:			
		tom of cellar) outside casing		Setting depth tool (ft):				
Hrs. waiting on cement b	erore drill-out:	Calculated top of cement		Cementing date:	3/24/2017			
Claim At		SLU						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu.ft.)	Height (ft.)			
1 1	described to the	LANGE A SECOL						
3	With the water of the same of		The state of the state of			RELET		
Total								

	PLUG #1	PLUG #2	DILLC MS	DI LIC MA		The state of the s	The second second
Cementing Date	1 200 1/2	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of hole or pipe (in.)		1002-69					
Depth to bottom of tubing or drill pipe (ft.)			1				
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount of cement on top of CIBP (ft.)	35 705		ar .			1	
Sacks of cement used	A CONTRACTOR				-		
Slurry volume pumped (cu. ft.)		4 - 1					
Calculated top of plug (ft.)							
Measured top of plug, if tagged (ft.)							
Slurry weight (lbs/gal)	AU TO THE WAY	別・子のど・こを の	SHIP THE STATE OF				
Class/type of cement	- 4/16						
Perforate and squeeze (VES/NO)		7 J H 1				ent est Elite	J. J. J.

REMARK

CEMENT WAS 560 SKS OF CLASS H WITH .38% FLUID LOSS, 10% SUSPENSION AGENT, 43% RETARDER, 19% DEFOAMER, 19% DISPERSANT

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.

ALBERT SNYDER SS2	Allied OFS, LLC	Albert Sander			
Name and title of cementer's representative	Cementing Company	Signature	110-1		
8711 W. CR 127	Midland Texas 79706	(432) 563-4440	2/24/2017		
Address	City, State, Zip Code	Tel: Area Code Number	3/24/2017		

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.

Typed or printed name of operator's representative

Rigulatory analys

Christine Smith

.247.3549

6.12.17

PD Box 1330

ouston, 1x 77251

City, State, Zip Code

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

- 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 representatives. 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 Commisssioner'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 78711-2697).
- 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 fromt 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/readtacSext.TacPage?sl=R&app=9&p_dire=&p_rloc=&p_tloc&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% (or30% 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 Cement 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 sumbit 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.

DAVID PORTER, CHAIRMAN CHRISTI CRADDICK, COMMISSIONER RYAN SITTON, COMMISSIONER



LORI WROTENBERY DIRECTOR, OIL AND GAS DIVISION

LOVING

D. CRAIG PEARSON DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS **OIL AND GAS DIVISION**

OPERATOR Name: ANADARKO E&P ONSHORE LLC Lease: YELLOWJACKET UL UNIT 19-3 RF:

ATTN FRANK A. DAVIS Address1:

14H Well No: PO BOX 1330 Address2:

3 Block: 19 Sec: HOUSTON City:

County: ΤX State: UL **Survey Name:**

SWR13EX Application Number: 11550 820301 **Drilling Permit No:**

SWR 13 CASING EXCEPTION APPLICATION/ALTERNATIVE REQUEST APPROVED

The Proposed Casing and Cementing Program submitted for the LEASE NAME: YELLOWJACKET UL UNIT 19-3 : **WELL NUMBER: 14H** has been approved by the Railroad Commission of Texas District Office.

- A copy of this approved letter must be kept on location during all phases of drilling and/or plugging a. operations. Once approved, changes CANNOT be made to the Proposed Casing Program on the original application without additional approval from the Railroad Commission of Texas District Office.
- b. Any substantive modifications to the cement program require prior approval from the Railroad Commission of Texas District Office, and may require re-submission of the SWR 13 (Statewide Rule 13) Alternate Surface Casing Application. Contact the Railroad Commission of Texas District Office for more information.
- c. The tail slurry must be sufficient to fill the Zone of Critical Cement as described in Statewide Rule 13(b)(1)(H)(i). In addition, all cement slurries must be mixed on location as described in Application for Alternate Surface Casing Program.
- d. The casing and cement program shall adhere to the following specifications:

Set 5161 feet of surface casing with a multistage tool set at a depth of not less than 1150 feet. Circulate cement from the multistage tool to the ground surface. If cement does not circulate to surface during the first stage, the multistage tool MUST be opened and neat cement be circulated from the tool to the surface.

The proposed alternative drilling fluid program for the fresh water protected interval is hereby approved.

Please notify the Midland District Office immediately if any gas, H2S or otherwise, is encountered before surface casing is set.

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(b)(1)(H)(iii) OR AS REQUIRED BY THE RAILROAD COMMISSION OF TEXAS DISTRICT OFFICE.

You must comply with all other provisions of SWR 13 (Statewide Rule 13) and a representative of the cementing company who performs the cementing job for the protection of usable quality water strata must sign the Form W-15 attesting to the information regarding cementing operations performed; including circulation of cement. (Note: If surface casing is set below the approved depth, this can result in denial of future Statewide Rule 13(b)(1)(H)(i) requests.) A condition of the approved drilling permit requires notification to the Railroad Commission of Texas District Office eight (8) hours prior to the time casing is to be set/cemented in the well. If your exception request was submitted after the subject well has been drilled and completed, the operator may be referred for enforcement action.

This authorization shall expire within five (5) years from the date the Groundwater Protection Determination was issued, or at the expiration of the drilling permit (if the well is not spudded prior to expiration) for the referenced well, whichever occurs first. Furthermore, this authorization supersedes any prior authorizations issued for the referenced well.

This exception is based on information provided when the application was submitted on 12/01/2016 . If any information has changed, you must contact the appropriate Railroad Commission of Texas District Office, and submit a new application if applicable. If you have questions, please contact the appropriate Oil and Gas District office.

RRC APPROVAL BY: Erik Hanson DATE: 12/02/2016

D. CRAIG PEARSON DISTRICT DIRECTOR

RAILROAD COMMISSION OF TEXAS Oil and Gas Division

ELECTRIC LOG STATUS REPORT

Instructions

FORM L-1

Tracking No.: 176006 This facsimile L-1 was generated electronically from data submitted to the RRC.

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, reclassifications, 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
- 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. ID	ENTIFICATION	T			
Operator Name: ANADARKO E&P ONSHORE LLC	District No. 08	3/2017			
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 820301				
Lease Name YELLOWJACKET UL UNIT 19-3	Lease/ID No. 47109		Well No. 14H		
County LOVING	API No. 42- 301-33110				
SECTION II. LOG STAT		B)			
A. BASIC ELECTRIC LOG NOT RUN		,			
X B. BASIC ELECTRIC LOG RUN. (Select one)					
X 1. Confidentiality is requested and a copy of the header	for each log that has been run o	n the well is attach	ned.		
Confidentiality already granted on basic electric log confidence.	overing this interval (applicabl	e to deepened well	s only).		
3. Basic electric log covering this interval already on file	e with Commission (applicable	to deepened wells	only).		
4. Log attached to (select one):		•	•		
(a) Form L-1 (this form). If the company/lease please enter name on log here: ANADARI		that shown in Secti	ion I,		
Check here if attached log is being submitte	d after being held confidential.				
(b) Form P-7, Application for Discovery Allow	able and New Field Designation	n.			
(c) Form W-4, Application for Multiple Compl	etion:				
Lease or ID No(s).		_			
Well No(s).		_			
Christine Smith	Regulatory Analyst II				
Signature		Title			
	(432) 247-3549	07/06/			
Name (print)	Phone		Date		
-FOR RAILROAD COI	MMISSION USE ONLY-				



Premier Directional Drilling

363 N Sam Houston Pkwy E Ste. 300 Houston, TX 77060 281-673-4000

Yellowjacket UL Unit 19-3 14H Scale 5":100' - MD

3/29/2017 8:19 PM

Location: Lat:31° 43' 11.941N Long: 103° 24' 55.475W

Oper. Company: Anadarko Petroleum

Well: Yellowjacket UL Unit 19-3 14H

Field: Wolfcamp

Rig: PD 576

Well ID: 42301331100000

Job Number: M17068

Notes: Recorded Memory Log
Gamma Correction Determined by Pipe ID, OD, Mud Weight, & Bit Size

Latitude: 31° 43' 11.941 N

Longitude: 103° 24' 55.475 W

Elev GL: 2769'

State: TX

Country: USA

County: Loving Co.

Start Date: 03/08/2017 05:17:00

End Date: 03/19/2017 22:14:00

Elev DF: 27'

Elev KB: 2796'

Notes: Datum: NAD 1927Projection: Texas Central 4203Total Correction: 8.70°Grid Convergence: -1.59°

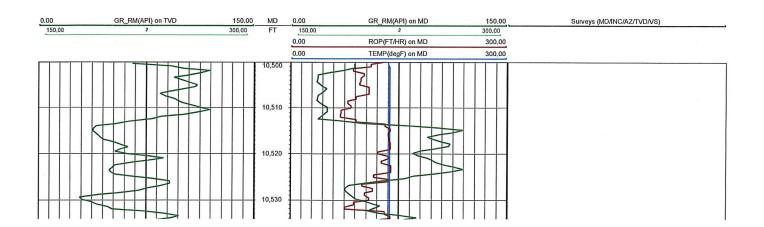
Operator 1: Jesse Montes

Operator 2: Jim Thammavong

Notes: Smoothing: 7Gap Fill: 10 Survey Tool Type: EVOCalculation Method: Minimum Curvature

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	ELP-0127	ELP-0134	ELP-0179		
Bit Size	8.75	8.75	6.125		
Cal Factor	2.84	2.84	1.94		
Survey Offset	77.37	57.21	62.26		
Gamma Offset	76.18	56.02	61.10		
Resisitivity Offset	0.00	0.00	0.00		
Start Depth	10500.00	10738.00	11594.00		
StartDate	3/8/2017	3/9/2017	3/13/2017		
StartTime	05:15	07:55	21:25		
EndDepth	10737.00	11593.00	18878.00		
EndDate	3/8/2017	3/9/2017	3/19/2017		
EndTime	08:00	23:55	22:14		
Mud Type	Brine	Brine	ОВМ		
Mud Weight	9.5	9.5	12.5		
Hole Data				Casing Data	
Size	From	То	Size	From	То
12 1/4"	120.00	5073.00	9 5/8"	0.00	5073.00
8 3/4"	5073.00	11650.00	7"	7" 0.00	
6 1/8"	11650.00	18879.00	4 1/2"	11650.00	18879.00

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.



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

CERTIFICATE OF POOLING AUTHORITY

P-12

Revised 05/2001

1. Field Name(s)		2. Lease/ID Number (if assigned)	3. RRC District Number		
PHANTO	M (WOLFCAMP)	47109	08		
4. Operator Nam	ne	5. Operator P-5 Number	6. Well Number		
ANADAR	KO E&P ONSHORE LLC	020528	14H		
7. Pooled Unit N		8. API Number	9. Purpose of Filing		
	JACKET UL UNIT 19-3	42-301-33110	Drilling Permit (W-1)		
10. County		11.Total acres in pooled unit	X Completion Report		
LOVING		967.62			
2	DESCRIPTION OF INDIVIDUAL TR	RACTS CONTAINED WITHIN THE POOL	ED UNIT		
TRACT/PLAT	TRACT	ACRES IN TRACT	INDICATE UNDIVIDED INTERESTS		
IDENTIFIER	Name	(See inst. #7 below)	UNLEASED NON-POOLED		
1	HARRISON, ET AL	647.27			
2	UNIVERSITY LANDS	320.35			
	II.				
			ПП		
		2	ПП		
	e e				
CERTIFICATION					
foregoing state	r penalties prescribed pursuant to the Sec. 9 ements and that the information provided by emplete to the best of my knowledge.	01.143, Texas Natural Resources Code, the me or under my direction on this Certification.	nat I am authorized to make the ate of Pooling Authority is true,		
N	(CHRISTINE SMITH			
Signature	Shart	Print Name			
REGULATOR	Y ANALYST	07/06/2017	432-247-3549		
Title	E-mail (if available)	Date	Phone		

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

	4		4
Page	1	of	1

1701 N. Congress P.O. Box 12967 Austin, Texas 78701-2967 Form P-16 Page 1

Rev. 01/2016

Acreage Designation SECTION I. OPERATOR INFORMATION

Operator Name:		ko E&P Onsho				rator P-5 No.			
Operator Address: ATTN: Frank A. Davis, P.O. Box 1330, Houston, TX 77251-1330									
MATERIAL PROPERTY.				SECTION	. WELL INFO	RMATION			
District No.: 08				3201101111		nty: LOVIN	G		Purpose of Filing:
Well No.: 14H						No.: 42-301			
Total Lease Acres:	967 62					ing Permit No			Drilling Permit Application (Form W-1)
Lease Name: YEL		CKET UL UNI	T 19-3	39.1		se No.: 4710		Completion Report	
Field Name: PHA			1 10 0			No.: 7105			(Form G-1/W-2)
Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral esta									
as operator below	essee, or n	as been authorized	by the owi	the number of	f assigned acre	livided portion	of the minera	rent Commi	er each tract for which filer is listed
authorized by the cur							incutcu on tu	Tene commi	ssion records of the mer has been
							CDEACE AC	THELEACE	POOLED LINUT
315	CHON III.	LISTING OF ALL V				ECTION II ABC		THE LEASE,	POOLED UNIT,
	Maria et la s	H-Horizontal	UNITIZED	TRACT DESIG	INATED IN SI	CHON II ABC	VE DI FILEK	SWR 38	On a retay News a sud
RRC ID No. or	Well	D-Directional	1	Lease Nam	۵	API No.	Acres	Except.	Operator Name and Operator No.
Lease No.	No.	V-Vertical		Lease Hairi		A TINO.	Assigned	(Y/N)	(if different from filing operator)
47109	15H	Н	YELLOW	JACKET UL U	NIT 19_3	42-301-32588	704.00	N	(ii different from filling operator)
47109	14H	H		JACKET UL U		42-301-33110	263.62	N	
17 100	1		TELECTI	O' TOTAL TOLO	1111 10 0	12 001 00110	200.02	1.8	
) lie									
								4	
Total Well Count >	2		< A. Tota	al Assigned H	oriz. Acreage	2	967.62	< C. Total A	Assigned Acreage
			< Tota	al Remaining	Horiz. Acrea	ge	0	< Total I	Remaining Acreage
			< B. Tota	al Assigned V	ert./Dir. Acre	eage			
				l Remaining					
			TIONING	DENABUG / D	NIPPOSE OF				
30000000000000000000000000000000000000		SEC	TION IV.	REMARKS / F	URPOSE OF	FILING (see in	istructions)		
Initial potential co	mpletion	report for 14H.							
									1
Attach Additional P	ages As N	eeded. X	No addition	onal pages	☐ Add	ditional Pages	: (No.	of addition	al pages)
CERTIFICATION: I decl	are under r	nenalties prescriber	l in Sec 91	143 Tevas Na	atural Resourc	es Code that t	his report wa	s nronarod h	y me or under my supervision or
									the best of my knowledge.
1	6.					nor see and a common manufacture of the common and			
(hrist-	Smit C			istine Smitl					
Signature			Name a	nd title (type o	or print)		100		ss only if you affirmatively
, T				allo dender 12			consent to its	•	
P.O. Box 1330		Но	uston	TX	77251-13	330	432-247-	3549	07/06/2017
Address			City,	State,	Zip Code	Tel: Aı	rea Code	Number	Date: mo. day yr.



Operator No.:

Groundwater Advisory Unit

Date Issued:15 November 2016GAU Number:163186

Attention: ANADARKO E&P ONSHORE API Number:

ATTN FRANK A. DAVIS County: LOVING

HOUSTON, TX 77251 Lease Name: YELLOWJACKET UL UNIT 19-3

Lease Number:

Well Number: 14H

Total Vertical Depth: 13000

Latitude: 31.719983

Longitude: -103.415409

Datum: NAD27

Purpose: New Drill

020528

Location: Survey-UNIVERSITY LAND; Abstract-NONE; Block-19; Section-3

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 the base of the Rustler, which is estimated to occur at a depth of 1000 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 11/11/2016. 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

