

W2: N/A

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

GAU Groundwater Protection Determination **Depth (ft.):** 900.0 **Date:** 03/28/2017
SWR 13 Exception **Depth (ft.):**

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 01/01/2018 **Production method:** Flowing
Number of hours tested: 24 **Choke size:** 39
Was swab used during this test? No **Oil produced prior to test:** 30562.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 1530.00 **Gas (MCF):** 1322
Gas - Oil Ratio: 864 **Flowing Tubing Pressure:** 912.00
Water (BBLs): 3526

CALCULATED 24-HOUR RATE

Oil (BBLs): 1530.0 **Gas (MCF):** 1322
Oil Gravity - API - 60.: 42.0 **Casing Pressure:** 912.00
Water (BBLs): 3526

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	1149			C-POZ/C	735	1423.0	0	Circulated to Surface
2	Intermediate	7	12 1/4	12186			C-POZ/H-POZ	2115	7599.0	0	Circulated to Surface

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
1	4 1/2	6	10844	22230	HSLD87	720	1094.0	10844	Calculation

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	5 1/2	10845	/

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 12054	22195.0

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

Was hydraulic fracturing treatment performed? Yes

Is well equipped with a downhole actuation sleeve? Yes **If yes, actuation pressure (PSIG):** 14000.0

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment: 9500 **Actual maximum pressure (PSIG) during hydraulic fracturing:** 11598

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	19,764,331 PROPPANT/27,933,514 GALLONS CLEAN	12054 22195

FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
RUSTLER	Yes	3000.0	3000.0	Yes	ESTIMATE NOT LOGGED
YATES	Yes	3700.0	3700.0	Yes	ESTIMATE NOT LOGGED
SEVEN RIVERS	Yes	3675.0	3675.0	Yes	ESTIMATE NOT LOGGED
QUEEN	Yes	4000.0	4000.0	Yes	ESTIMATE NOT LOGGED
GLORIETA	Yes	5250.0	5250.0	Yes	ESTIMATE NOT LOGGED
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE	Yes	4550.0	4550.0	Yes	ESTIMATE NOT LOGGED
HOLT	Yes	6000.0	6000.0	Yes	ESTIMATE NOT LOGGED
CLEARFORK	Yes	6050.0	6050.0	Yes	ESTIMATE NOT LOGGED
DELAWARE	Yes	4950.0	4950.0	Yes	ESTIMATE NOT LOGGED
TUBB	Yes	6245.0	6250.0	Yes	ESTIMATE NOT LOGGED
WICHITA ALBANY	Yes	7395.0	7400.0	Yes	ESTIMATE NOT LOGGED
CHERRY CANYON	Yes	6100.0	6100.0	Yes	ESTIMATE NOT LOGGED
WADDELL	Yes	10085.0	10100.0	Yes	ESTIMATE NOT LOGGED
BONE SPRINGS	Yes	8554.0	8559.0	Yes	CASED
WOLFCAMP	Yes	11365.0	11534.0	Yes	CASED/TARGET
MONTOYA	No			No	BELOW TD
PENNSYLVANIAN	No			No	BELOW TD
ATOKA	No			No	BELOW TD
FUSSELMAN	No			No	BELOW TD
DEVONIAN	No			No	BELOW TD
ELLENBURGER	No			No	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

DEPTHS FOR WOLFCAMP "A" REFERENCED FOR WOLFCAMP FORMATION. KOP: 10,700'

RRC REMARKS

PUBLIC COMMENTS:

[RRC Staff 2018-03-06 14:01:31.759] EDL=10141 feet, max acres=704, PHANTOM (WOLFCAMP) oil or gas well

CASING RECORD :

INTERMEDIATE HOLE TAPERED 12 1/4" & 8 3/4"

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

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

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION

Printed Name: Lauren Walsh
Telephone No.: (720) 215-3634

Title: Regulatory Specialist
Date Certified: 02/02/2018



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: Jagged Peak Energy LLC	Operator P-5 No.: 429574
Cementer Name: Compass Cementing Services LLC	Cementer P-5 No.: 169789

WELL INFORMATION

District No.: 08	County: Ward	
Well No.: 2H	API No.: 42-475-37198	Drilling Permit No.: 823215
Lease Name: UTL 2932-17	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

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.): 1155	Est. % wash-out or hole enlargement: 30%
Size of casing in O.D. (in.): 13 3/8	Casing weight (lbs/ft) and grade: 48 / N-80	No. of centralizers used: 3
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.): 1149	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: > 24 hrs	Calculated top of cement (ft.): SURFACE	Cementing date: 4/5/2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	470	C/POZ	SEE REMARKS	1071	1541
2	265	C	SEE REMARKS	352	506
3					
Total	735			1423	2047

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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO	Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

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

III. CASING CEMENTING DATA

Type of casing: <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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <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					

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

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

REMARKS

LEAD= 85%CLASS C+15%LAFARGE POZMIX+5%BENTONITE+1.25%C-45+.3%C-40P+5.24#/SK SALT+4#/SK KOLSEAL.
 TAIL=100%CLASS C+1%CALCIUM CHLORIDE+.1%C-45.

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.

Joshua Hicks Service Supervisor Compass Cementing
 Name and title of cementer's representative Cementing Company Signature
10013 W. County Rd. 157 Midland, TX 79706 325-387-2940 4/5/2017
 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.

Laura Haynes drilling technician
 Typed or printed name of operator's representative Title Signature
1401 Lawrence St., Suite 1700 Denver, CO 80202 720-215-3711 1/30/2018
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
 To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 (http://info.sos.state.tx.us/pls/pub/readtacSext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a callper 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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Form W-15

Rev. 08/2014

CEMENTING REPORT

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

OPERATOR INFORMATION

Operator Name: Jagged Peak Energy LLC	Operator P-5 No.: 429574
Cementer Name: Compass Cementing Services	Cementer P-5 No.: 169789

WELL INFORMATION

District No.: 08	County: Ward	
Well No.: 2H	API No.: 42-475-37198	Drilling Permit No.: 823215
Lease Name: UTL 2932-17	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

I. CASING CEMENTING DATA

Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input checked="" type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production		
Drilled hole size (in.): 12.25 & 8.75	Depth of drilled hole (ft.): 12,200	Est. % wash-out or hole enlargement: 15%
Size of casing in O.D. (in.): 7	Casing weight (lbs/ft) and grade: 32 / P-110	No. of centralizers used: 0
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <small>If no for surface casing, explain in Remarks.</small>	Setting depth shoe (ft.): 12,186	Top of liner (ft.):
		Setting depth liner (ft.):
Hrs. waiting on cement before drill-out: > 24 hrs	Calculated top of cement (ft.): surface	Cementing date: 4-24-2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	1970	C/POZ	SEE REMARKS	7407.2	10672.46
2	145	H/POZ		181.4	1268
3					
Total	2115			7598.6	11940.46

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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth shoe (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:

SLURRY

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

III. CASING CEMENTING DATA

Type of casing: <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.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight(lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <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					



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Form W-15

Rev. 08/2014

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

CEMENTING REPORT

OPERATOR INFORMATION

Operator Name: Jugged Peak Energy LLC	Operator P-5 No.: 429574
Cementor Name: Compass Cementing Services, LLC	Cementor P-5 No.: 169789

WELL INFORMATION

District No.: 08	County: Ward	
Well No.: 2H	API No.: 42-475-37198	Drilling Permit No.: 823215
Lease Name: UTL 2932-17	Lease No.:	
Field Name: Phantom (Wolfcamp)	Field No.: 71052900	

I. CASING CEMENTING DATA

Type of casing: Conductor Surface Intermediate Liner Production

Drilled hole size (in.): 6	Depth of drilled hole (ft.): 22341	Est. % wash-out or hole enlargement: 20%
Size of casing in O.D. (in.): 4.5	Casing weight (lbs/ft) and grade: 13.5/P-110	No. of centralizers used: 0
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If no for surface casing, explain in Remarks.	Setting depth shoe (ft.): 22230	Top of liner (ft.): 10844
		Setting depth liner (ft.): 22230
Hrs. waiting on cement before drill-out: N/A	Calculated top of cement (ft.): 10844	Cementing date: 6-12-2017

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	720	HSLD 87	SEE REMARKS	1094.4	12448
2					
3					
Total	720			1094.4	12448

II. CASING CEMENTING DATA

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

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

SLURRY

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

III. CASING CEMENTING DATA

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

Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:
Tapered string drilled hole size (in.) Upper: Lower:	Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:	Tapered string casing weight (lbs/ft) and grade Upper: Lower:	Tapered string no. of centralizers used Upper: Lower:
Was cement circulated to ground surface (or bottom of cellar) outside casing? <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					

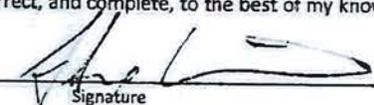
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date							
Size of hole or pipe (in.)							
Depth to bottom of tubing or drill pipe (ft.)							
Cement retainer setting depth (ft.)							
CIBP setting depth (ft.)							
Amount 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

CEMENT HSLD 87 (100), 0.50% C-20, 0.70% C-47B, 0.75% C-41P, 0.10% CSA, 6.00% STE.

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.

ALEX GARCIA CEMENT SUPERVISOR **COMPASS WELL SERVICES**

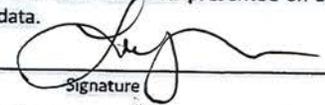
Name and title of cementer's representative Cementing Company  Signature

10013 WEST COUNTY RD 157 MIDLAND, TX, 79706 432-561-5970 7-30-17

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.

Laura Haynes drilling technician

Typed or printed name of operator's representative Title  Signature

1401 Lawrence St., Suite 1700 Denver, CO 80202 720-215-3711 1/30/2018

Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

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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_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&tl=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.

Tracking No.: 185168

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: JAGGED PEAK ENERGY LLC	District No. 08	Completion Date: 11/20/2017
Field Name PHANTOM (WOLFCAMP)	Drilling Permit No. 823215	
Lease Name UTL 2932-17	Lease/ID No. 48635	Well No. 2H
County WARD	API No. 42- 475-37198	

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). _____

Lauren Walsh

 Signature
 JAGGED PEAK ENERGY LLC

 Name (print)

Regulatory Specialist

 Title
 (720) 215-3634

 Phone
 01/31/2018

 Date

-FOR RAILROAD COMMISSION USE ONLY-



Radial Cement Bond
Gamma Ray CCL
Log

Company Jagged Peak Energy LLC.
Well UTL 2932-17 #2H
Field Phantom (Wolfcamp)
County Ward
State Texas

Company Jagged Peak Energy LLC.
Well UTL 2932-17 #2H
Field Phantom (Wolfcamp)
County Ward State Texas

Location: API #: 42-475-37198
910' FNL & 525' FWL
Section 12, Block 17, Abstract A-U51
UL. Survey
SEC TWP RGE
Other Services
TEMP
Elevation
Permanent Datum Ground Level Elevation 2724'
Log Measured From KB 32' APD
Drilling Measured From KB
K.B. 2756'
D.F. 2755
G.L. 2724'

Date	08/06/2017
Run Number	One
Depth Driller	TD
Depth Logger	11530'
Bottom Logged Interval	11528'
Top Log Interval	Surface
Open Hole Size	8 3/4"
Type of Fluid	Water
Density / Viscosity	
Max. Recorded Temp.	174 F
Estimated Cement Top	
Time Well Ready	On Arrival
Time Logger on Bottom	See Log
Equipment Number	WL-810
Location	Midland, Texas
Recorded By	Ricky Omonake
Witnessed By	Reed Ashy

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. Strin				
Production Strin				
Liner				

<<< Fold Here >>>

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, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

***** Thank You For Using Capitan Corporation *****



Man Pass 5 = 100

**RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION
CERTIFICATE OF COMPLIANCE STATEWIDE RULE 36**

FORM H-9
12/12/77

FILE WITH
DISTRICT OFFICE
IN TRIPLICATE

1. Operator			2. Operator Number (See Instruction 13)		3. RRC Dist.			
4. Street or P. O. Box No.			5. City		6. State	7. Zip Code		
8. Name of Lease, Facility or Operation			9. Field or Area Name		10. County			
11. General Operation Type - Circle One: <input checked="" type="radio"/> A - Oil Field Production <input type="radio"/> B - Gas Field Production <input type="radio"/> C - Pipeline or Gathering Sys. <input type="radio"/> D - Gasoline Plant <input type="radio"/> E - Drilling or Workover <input type="radio"/> F - Sweetening Unit <input type="radio"/> G - Combination (explain) <input type="radio"/> H - Other (explain)			Other Explanation					
12. RRC ID# of Operation(s) to be Covered by This Certificate			Type ID Code (See Instruction 12)		Indicate if Filing for Storage Facility Only YES NO		13. Hydrogen Sulfide Concentration _____ PPM	14. Maximum Escape Volume _____ MCF/Day
							15. 100 PPM Radius of Exposure (ROE) _____ Ft.	16. 500 PPM Radius of Exposure (ROE) _____ Ft.
							17. Operation is Existing <input type="checkbox"/> New <input type="checkbox"/>	18. Modification Resulting in Certificate Change Yes <input type="checkbox"/> No <input type="checkbox"/>
							19. Workover or Drilling Well with 100 PPM ROE Greater than 3000 feet on Rule 36 Certified Well/Lease Yes <input type="checkbox"/> No <input type="checkbox"/>	
							20. Previous Certificate Number if Available (For Amended Certificates) _____	
							21. The 100 PPM ROE includes any part of a public area except a public road Yes <input type="checkbox"/> No <input type="checkbox"/>	
							22. The 500 PPM ROE includes any part of a public road Yes <input type="checkbox"/> No <input type="checkbox"/>	
							23. Injection of fluid containing Hydrogen Sulfide (See Instruction 14) Yes <input type="checkbox"/> No <input type="checkbox"/>	
							24. Date (or Depth) of Compliance with all applicable provisions of Rule 36 ___/___/19___ Mo Day Year	
							Depth of Compliance for Drilling Operation _____ Ft. from Surface	
25. Contingency Plan Location of Plan (See Instruction 15)					Has been prepared Yes <input type="checkbox"/> No <input type="checkbox"/>			
26. Location of data used to prepare this certificate (See Instruction 15)								
CERTIFICATE								
I declare under penalties prescribed in Section 91.143, Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision, and that I am qualified to make this certification by virtue of my training and experience, and by my analysis of the operation being certified, or by the analysis of qualified person working under my supervision, and that the data and facts stated therein are true, correct, and complete, to the best of my knowledge.								
Representative of Company		Title		Phone No.		Date		

RAILROAD COMMISSION USE ONLY

This operation and the equipment used therein is approved on the basis of the above certification and is subject to further Commission audit for compliance with the required provisions of Statewide Rule 36. This approval may be cancelled if investigation determines that the operation does not comply with the provisions of Statewide Rule 36.

APPROVED BY: _____

DATE: _____

REMARKS:

CERTIFICATION NUMBER: _____

**CERTIFICATE OF COMPLIANCE
 AND TRANSPORTATION AUTHORITY**

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.: 185168

1. Field name exactly as shown on proration schedule PHANTOM (WOLFCAMP)	2. Lease name as shown on proration schedule UTL 2932-17			
3. Current operator name exactly as shown on P-5 Organization Report JAGGED PEAK ENERGY LLC	4. Operator P-5 no. 429574	5. Oil Lse/Gas ID no 48635	6. County WARD	7. RRC district 08
8. Operator address including city, state, and zip code 1401 LAWRENCE ST STE 1800 DENVER, CO 80202	9. Well no(s) (see instruction E) 2H			11. Effective Date 11/20/2017
10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)				

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

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

OR

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

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

Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left (Attach an additional sheet in same format if more space is needed)	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X	X	TARGA MIDLAND LLC(836046)	0001	100.0	

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

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First (Attach an additional sheet in same format if more space is needed)	Percent of Take
ORYX SO. DELAWARE OGT LLC(627117)	100.0

RRC USE ONLY: Reviewer's initials: RRC Staff Approval date: 04/12/2018

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.

JAGGED PEAK ENERGY LLC Name (print) _____ Regulatory Specialist Title _____ E-mail Address (optional) <u>lwalsh@jaggedpeakenergy.com</u>	Lauren Walsh Signature <input checked="" type="checkbox"/> Authorized Employee of current operator <input type="checkbox"/> Authorized agent of current operator (see instruction G) _____ Date <u>01/29/2018</u> Phone with area code _____ (720) 215-3634
---	--

GROUNDWATER PROTECTION DETERMINATION

Form GW-2



Groundwater Advisory Unit

Date Issued: 29 March 2017 **GAU Number:** 169310

Attention:	JAGGED PEAK ENERGY LLC 1125 17TH STREET SUITE DENVER, CO 80202	API Number:	
Operator No.:	429574	County:	WARD
		Lease Name:	UTL 2932-17
		Lease Number:	
		Well Number:	2H
		Total Vertical Depth:	12000
		Latitude:	31.644581
		Longitude:	-103.204714
		Datum:	NAD27

Purpose: New Drill
Location: Survey-UNIVERSITY LAND; Abstract-U51; Block-12; Section-12

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 Allurossa, which is estimated to occur at a depth between 850 and 900 feet, must be protected.

This recommendation is applicable to all wells within a radius of 1300 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 03/28/2017. If the location information has changed, you must contact the Groundwater Advisory Unit, and submit a new application if necessary. If you have questions, please contact us at 512-463-2741 or gau@rrc.texas.gov.

Groundwater Advisory Unit, Oil and Gas Division

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

Block 17, University Lands Survey Ward County, Texas

8
GRID N: (Y)10571228.883
GRID E: (X)1392107.552

30
GRID N: (Y)10572709.294
GRID E: (X)1397176.765

11
GRID N: (Y)10574189.703
GRID E: (X)1402245.981

353'
234'

LTP (MD 22195)
BHL

N 73°43'12" E 5280.96'

JAGGED PEAK ENERGY

29

N 73°43'12" E 5280.96'

JAGGED PEAK ENERGY

FTP 81'
(MD 12,054')

326'
910'

525'
525'

MD 11,973'

UTL 2932-17 #3H SHL/PP

UTL 2932-17 #2H SHL/PP
EL. 2724

Tract B
320.35 Acres (Called)

Tract A
320.35 Acres (Called)

N 16°14'51" W 2643.81'

UTL 2932-17

UTL 2932-17

UTL 2932-17-1H

GRID N: (Y)10568690.656
GRID E: (X)1392847.252

GRID N: (Y)10571653.556
GRID E: (X)1402986.307

Bottom Hole Location (BHL)
GRID N: (Y)10570941.700
GRID E: (X)1392435.430
NAD'83 Lat/Long
Lat: 31°38'13.303" N
Long: 103°14'20.026" W
Lat: 31.637029 N
Long: 103.238896 W

Last Take Point (LTP)
GRID N: (Y)10570977.067
GRID E: (X)1392548.983
NAD'83 Lat/Long
Lat: 31°38'13.682" N
Long: 103°14'18.724" W
Lat: 31.637134 N
Long: 103.238534 W

Driving Directions To Location:
From the intersection of Highway 115 and Farm-To-Market Road 1232 in Wink, Texas; Drive South on Hwy 115 5.1 miles to Little Joe Road, drive 2.9 miles to "Y" in road; Take left leg at "Y", drive 0.8 miles to lease road at Lat: 31°39'42.99", Long: 103°12'22.72"; Turn left (South) on to lease road, drive 0.2 miles to dirt road; Turn left (South) on to dirt road, drive 1.1 miles to Lat: 31°38'39.03", Long: 103°12'48.61"; Location is left (East) 2,720 feet.

First Take Point (FTP)
GRID N: (Y)10573853.887
GRID E: (X)1402259.741
NAD'83 Lat/Long
Lat: 31°38'44.640" N
Long: 103°12'27.291" W
Lat: 31.645733 N
Long: 103.207581 W

Surface Hole Location (SHL)/
Penetration Point (PP)
GRID N: (Y)10573463.483
GRID E: (X)1403004.891
NAD'83 Lat/Long
Lat: +31°38'40.968"
Long: -103°12'18.557"
Lat: +31.644713°
Long: -103.205155°

7

6

32
GRID N: (Y)10566152.428
GRID E: (X)1393586.952

S 73°42'01" W 5282.14'

GRID N: (Y)10567634.919
GRID E: (X)1398656.792

28

S 73°42'01" W 5282.15'

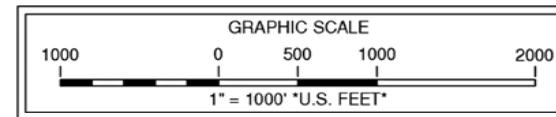
12

GRID N: (Y)10569117.408
GRID E: (X)1403726.633

13

WELL BORE LENGTHS

SHL/PP - FTP	1477.71'
FTP - LTP	10137.22'
LTP - BHL	118.93'
SHL - BHL	11733.86'



Note: Well is located 8.2 miles South-Southwest of the city of Wink, Texas.
Note: Survey Reconstruction filed in the Office of Pennell & Marlowe Land Surveyors, Inc.
Note: Well bore location determined from survey report provided by client.
Location of surface hole is as-staked and was not re-surveyed for this plat.
Note: Coordinates shown herein are on The Texas Coordinate System of 1983, Central Zone.
Note: Bearings and distances are based on The Texas Coordinate System of 1983, Central Zone.
Note: Example: (S-99999) indicates General Land Office file number.

September 15, 2017
170915K2-KRM

Revised: 01/23/2018-KRM
USGS Quadrangle Sheet: Wink South, Tex.
Railroad Commission Permit Plat

JAGGED PEAK ENERGY
UTL 2932-17#2H (As-Drilled)
910' FROM NORTH LINE
525' FROM WEST LINE
UTL 2932-17 Lease
640.7 Acres (Called) being the N/2 of
Sections 29 & 32, Block 17
University Lands Survey
Ward County, Texas

Scale: 1" = 1000'