



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 06/30/2016
Tracking No.: 156619

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

OPERATOR INFORMATION

Operator Name: EP ENERGY E&P COMPANY, L.P. Operator No.: 253385
Operator Address: ATTN JOSEPH ARAIZA PO BOX 4660 HOUSTON, TX 77210-4660

WELL INFORMATION

API No.: 42-105-42313 County: CROCKETT
Well No.: 4101GH RRC District No.: 7C
Lease Name: UNIVERSITY SALT DRAW Field Name: LIN (WOLFCAMP)
RRC Lease No.: 18942 Field No.: 53613750
Location: Section: 1, Block: 41, Survey: UNIVERSITY LANDS, Abstract:

Latitude: Longitude:
This well is located 6.98 miles in a SOUTHEAST
direction from BARNHART,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: New Well
Well Type: Shut-In Producer Completion or Recompletion Date: 01/07/2016

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	12/11/2015	811281
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 01/06/2016	Date of first production after rig released: 01/07/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 01/06/2016	Date plug back, deepening, recompletion, or drilling operation ended: 01/07/2016
Number of producing wells on this lease in this field (reservoir) including this well: 27	Distance to nearest well in lease & reservoir (ft.): 668.0
Total number of acres in lease: 34139.43	Elevation (ft.): 2624 GL
Total depth TVD (ft.): 1013	Total depth MD (ft.): 1013
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? No	Rotation time within surface casing (hours): 0.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: None	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: 8321.0 Feet from the North Line and 8407.0 Feet from the West Line of the UNIVERSITY SALT DRAW 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.): 825.0	Date: 07/08/2015
SWR 13 Exception		Depth (ft.):	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test:		Production method:
Number of hours tested: 24		Choke size:
Was swab used during this test? No		Oil produced prior to test:
PRODUCTION DURING TEST PERIOD:		
Oil (BBLs):		Gas (MCF):
Gas - Oil Ratio: 0		Flowing Tubing Pressure:
Water (BBLs):		
CALCULATED 24-HOUR RATE		
Oil (BBLs):		Gas (MCF):
Oil Gravity - API - 60.:		Casing Pressure:
Water (BBLs):		

CASING RECORD											
		<u>Casing</u>	<u>Hole</u>	<u>Setting</u>	<u>Multi -</u>	<u>Multi -</u>		<u>Cement</u>	<u>Slurry</u>	<u>Top of</u>	<u>TOC</u>
<u>Row</u>	<u>Type of</u>	<u>Size</u>	<u>Size</u>	<u>Depth</u>	<u>Stage Tool</u>	<u>Stage Shoe</u>	<u>Cement</u>	<u>Amount</u>	<u>Volume</u>	<u>Cement</u>	<u>Determined</u>
	<u>Casing</u>	<u>(in.)</u>	<u>(in.)</u>	<u>(ft.)</u>	<u>Depth (ft.)</u>	<u>Depth (ft.)</u>	<u>Class</u>	<u>(sacks)</u>	<u>(cu. ft.)</u>	<u>(ft.)</u>	<u>By</u>
1	Surface	9 5/8	12 1/4	1008			CLASS C	335	641.0	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
N/A									

TUBING RECORD			
Row	Size (in.)	Depth	Size (ft.)
N/A			

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
N/A			

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed? No			
Is well equipped with a downhole actuation sleeve? No			
If yes, actuation pressure (PSIG):			
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:			
Actual maximum pressure (PSIG) during hydraulic fracturing:			
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No			
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
N/A			

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>
QUEEN	No			No	
SAN ANDRES	No			No	
LEONARD	No			No	
WOLFCAMP	No			No	
CANYON	No			No	
STRAWN	No			No	
DEVONIAN	No			No	
ELLENBURGER	No			No	

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
UNIVERSITY SALT DRAW 4101GH. THIS WELL ONLY HAS SURFACE CASING SET.

RRC REMARKS
<div>PUBLIC COMMENTS:</div> <div>CASING RECORD :</div> <div>TUBING RECORD:<div>WELL ONLY HAS SURFACE CASING SET.</div></div> <div>PRODUCING/INJECTION/DISPOSAL INTERVAL :</div> <div>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</div> <div>POTENTIAL TEST DATA:</div>

OPERATOR'S CERTIFICATION	
Printed Name: LINDA RENKEN	Title: Sr. Regulatory Analyst
Telephone No.: (713) 997-5138	Date Certified: 06/09/2016



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: Ep Energy E&P Company, L.P.

Operator P-5 No.: 253385

Cementer Name: Compass Cementing Services

Cementer P-5 No.: 169789

WELL INFORMATION

District No.: 7C

County: Crockett

Well No.: 4101 GH

API No.: 42-105-42313

Drilling Permit No.: 811281

Lease Name: University Salt Draw

Lease No.: 18942

Field Name: Lin (Wolfcamp)

Field No.: 53613750

I. CASING CEMENTING DATA

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

Drilled hole size (in.): 12 1/4

Depth of drilled hole (ft.): 1008

Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.): 9 5/8

Casing weight (lbs/ft) and grade: 40

No. of centralizers used: 8

Was cement circulated to ground surface (or bottom of cellar) outside casing? ☒ YES ☐ NO If no for surface casing, explain in Remarks.

Setting depth shoe (ft.):

~~1088~~ 1008'

Top of liner (ft.):

Setting depth liner (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.): Surface 0'

Cementing date: 1/7/16

SLURRY

Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	185	C/Poz	See Remarks	438.5	1340
2	150	C	See Remarks	202.5	646.5
3					
Total	335			640.95	1986

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.)

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? ☐ YES ☐ NO

Setting depth shoe (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

SLURRY

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

III. CASING CEMENTING DATA

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

Drilled hole size (in.):

Depth of drilled hole (ft.):

Est. % wash-out or hole enlargement:

Size of casing in O.D. (in.):

Casing weight (lbs/ft) and grade:

No. of centralizers used:

Tapered string drilled hole size (in.)

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? ☐ YES ☐ NO

Setting depth tool (ft.):

Hrs. waiting on cement before drill-out:

Calculated top of cement (ft.):

Cementing date:

SLURRY

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

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

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

REMARKS

Lead: 85% Class C, 15% Poz-Mix, 6% Bentonite, 1.25% C-45, .75% C-41p, 5.44% Salt, 6% Kol-Seal, 2% Phenoseal. Tail: 100% Class C .25% C-41p, 1.61% Salt. Circulated 40bbls (95sks) cement to surface

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

Dustin Nestor SS II

Compass Cementing Services

Name and title of cementer's representative

Cementing Company

Signature

1930 S HWY 277

Sonora, TX

76950

325-387-2940

1/7/16

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.

Linda Renken

Sr. Regulatory Analyst

Typed or printed name of operator's representative

Title

Signature

P.O. Box 4660, Houston, TX 77210-4660

(713) 997-5138

June 7, 2016

Address

City,

State, Zip Code

Tel: Area Code

Number

Date: mo. day yr.

Instructions for Form W-15, Cementing Report

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

- A. What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 156619

This facsimile P-15 was generated electronically
from data submitted to the RRC.

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the EP ENERGY E&P COMPANY, L.P. ,

OPERATOR

UNIVERSITY SALT DRAW

LEASE

No. 4101GH

WELL

; that such well is

completed in the LIN (WOLFCAMP) Field, CROCKETT County,

Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces _____

300.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge,

Date 06/07/2016 Signature LINDA RENKEN

Telephone (713) 997-5138 Title Sr. Regulatory Analyst
AREA CODE

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

Form GW-2

Groundwater Advisory Unit

Date: 08 July 2015

GAU Number:

11186

Attention: EP ENERGY E&P COMPANY, L.P.

ATTN CHELSEA CHAPMAN

HOUSTON, TX 77210

P-5#: 253385

API Number:

County:

CROCKETT

Lease Name:

University Salt Draw

RRC Lease Number:

Well Number:

4101DH

Total Vertical Depth:

8999

Latitude:

31.036887

Longitude:

-101.117949

Datum:

NAD27

Purpose: New Drill

Location: Survey-UL; Block-41; Section-1

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

The interval from the land surface to a depth of 825 feet must be protected.

This recommendation is applicable to all wells within a radius of 200 feet of this location.

This determination is based on information provided when the application was submitted on 07/07/2015. 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

Rev. 02/2014

Internet address: www.rrc.texas.gov

NAD 83, Zone 4203
Surface Hole Location (SHL Sec. 1)
Latitude: 31.037053° N
Longitude: 101.118147° W
X=2050801.14
Y=10341772.17
Elev.=2624'
2565' FSL & 2538' FEL

NAD 27, Zone 4203
Surface Hole Location (SHL Sec. 1)
Latitude: 31.036888° N
Longitude: 101.117758° W
X=1754334.08
Y=499193.45
Elev.=2624'
2565' FSL & 2538' FEL

Point of Penetration (PP Sec. 1)
Latitude: 31.036924° N
Longitude: 101.118074° W
X=1754235.04
Y=499207.30
2579' FSL & 2637' FEL

First Take Point (FTP Sec. 1)
Latitude: 31.037174° N
Longitude: 101.120266° W
X=1753549.21
Y=499303.20
2672' FSL & 2334' FWL

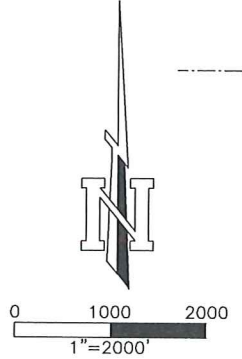
Last Take Point (LTP Sec.12 Blk.41)
Latitude: 31.015087° N
Longitude: 101.120162° W
X=1753524.99
Y=491270.43
76' FSL & 2334' FWL

Bottom Hole Location
(BHL Sec.12 Blk.41)
Latitude: 31.014881° N
Longitude: 101.120161° W
X=1753524.79
Y=491195.43
1' FSL & 2334' FWL

EP ENERGY
Lease Name and Well Number
UNIVERSITY SALT DRAW 4101GH
Topography and Vegetation
SCATTERED MESQUITE and CACTUS
6.98 MILES SOUTHEAST OF BARNHART, TEXAS

Unit Boundary Distance	
SHL	8321' FNL & 8407' FWL
PP	8307' FNL & 8308' FWL
FTP	8212' FNL & 7622' FWL
LTP	16245' FNL & 7623' FWL
BHL	16320' FNL & 7623' FWL

EP ENERGY
E&P COMPANY, L.P.
34,139.427 Acres (Called)
"University Salt Draw"



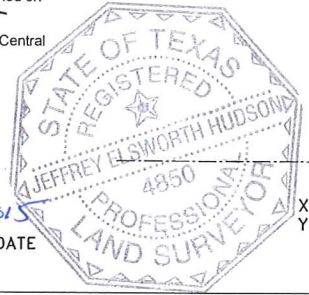
NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.B.P.L.S. Minimum Standards of Procedures for Boundary Survey. Acreage shown herein were furnished by others. The information contained on this plat is intended for the sole use of EP ENERGY E&P COMPANY, L.P.

NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations

I, Jeffrey Elsworth Hudson do hereby certify that the above described well location was staked on the ground under my supervision, as shown.

Jeffrey Elsworth Hudson
JEFFREY ELSWORTH HUDSON
REGISTERED PROFESSIONAL LAND SURVEYOR
TEXAS REGISTRATION NO. 4850

11 Dec 2015
DATE



KSA Energy Services
140 E. Tyler St. Ste 600 Longview, Texas 75601
T. 903-236-7700 F. 903-236-7779
www.ksaeng.com
tbpls firm reg. no. 1011500

EP ENERGY E&P COMPANY, L.P.

EPEN.178

University Salt Draw 4101GH
Block 41, Section 1
Crockett County, Texas

