



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 03/22/2017
Tracking No.: 164999

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 CHELSEA CANTRELLE 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: Initial Potential
Type of completion: New Well
Well Type: Producing Completion or Recompletion Date: 10/06/2016
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: 10/06/2016
Date plug back, deepening, recompletion, or drilling operation commenced: 01/06/2016 Date plug back, deepening, recompletion, or drilling operation ended: 10/06/2016
Number of producing wells on this lease in this field (reservoir) including this well: 32 Distance to nearest well in lease & reservoir (ft.): 407.0
Total number of acres in lease: 34139.43 Elevation (ft.): 2624 GL
Total depth TVD (ft.): 6531 Total depth MD (ft.): 17295
Plug back depth TVD (ft.): Plug back depth MD (ft.): 17246
Was directional survey made other than inclination (Form W-12)? Yes Rotation time within surface casing (hours): 81.0
Is Cementing Affidavit (Form W-15) attached? Yes
Recompletion or reclass? No Multiple completion? No
Type(s) of electric or other log(s) run: None
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

PACKET: N/A

W2: N/A

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

**GAU Groundwater Protection Determination**      **Depth (ft.):** 800.0      **Date:** 10/16/2015  
**SWR 13 Exception**      **Depth (ft.):**

**INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION**

**Date of test:** 11/08/2016      **Production method:** Gas Lift  
**Number of hours tested:** 24      **Choke size:** 64  
**Was swab used during this test?** No      **Oil produced prior to test:** 14637.00

**PRODUCTION DURING TEST PERIOD:**

**Oil (BBLs):** 1197.00      **Gas (MCF):** 706  
**Gas - Oil Ratio:** 589      **Flowing Tubing Pressure:** 381.00  
**Water (BBLs):** 1288

**CALCULATED 24-HOUR RATE**

**Oil (BBLs):** 1197.0      **Gas (MCF):** 706  
**Oil Gravity - API - 60.:** 41.5      **Casing Pressure:** 983.00  
**Water (BBLs):** 1288

**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	9 5/8	12 1/4	1008			C/POZ	335	641.0	0	Circulated to Surface
2	Conventional Production	5 1/2	8 3/4	17290			C/H	2510	4149.0	0	Calculation

**LINER RECORD**

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
N/A									

**TUBING RECORD**

Row	Size (in.)	Depth (ft.)	Packer Depth (ft.)/Type
1	2 7/8	6524	6514 / RETRIEVABLE

**PRODUCING/INJECTION/DISPOSAL INTERVAL**

Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 7046	17196.0

**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):** 8850.0

**Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:** 8000      **Actual maximum pressure (PSIG) during hydraulic fracturing:** 8076

**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	ADD PERFS AND FRAC (SEE FRACFOCUS FOR DETAILS)	7046 17196

**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	Yes	1116.8	1116.8	Yes	LOGGED
SAN ANDRES	Yes	1477.3	1478.1	Yes	LOGGED
LEONARD	Yes	3473.3	3514.9	Yes	ESTIMATED
WOLFCAMP	Yes	5765.3	6171.4	Yes	RODUCING
CANYON	No			No	NOT PENETRATED
STRAWN	No			No	NOT PENETRATED
DEVONIAN	No			No	NOT PENETRATED
ELLENBURGER	No			No	NOT PENETRATED

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. KOP=6181'. ALL REQUIRED ADDITIONAL FORMS OR ATTACHMENTS WERE PREVIOUSLY SUBMITTED WITH WRO W-2, TRACKING #156619.

**RRC REMARKS****PUBLIC COMMENTS:**

[RRC Staff 2016-12-05 17:14:30.328] EDL=10120 feet, max acres=400, LIN (WOLFCAMP) oil 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: Jessica High

Title: Regulatory Analyst II

Telephone No.: (713) 997-6632

Date Certified: 01/05/2017



# RAILROAD COMMISSION OF TEXAS

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

### 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.): ~~1015~~ 1008'      Top of 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					

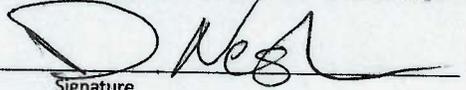
**CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON**

	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.

Digitally signed by Linda Renken  
 DN: cn=Linda Renken, o=EP Energy E&P  
 Company, L.P., ou=HSER,  
 email=linda.renken@epenergy.com, c=US  
 Date: 2016.06.07 14:26:58 -05'00'

**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.



# RAILROAD COMMISSION OF TEXAS

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

### OPERATOR INFORMATION

Operator Name: EP ENERGY E&P Company, L.P. Operator P-5 No.: 253385  
 Cementer Name: Compass Cementing Services, LLC Cementer P-5 No.: 169789

### WELL INFORMATION

District No.: 7C County: Crockett  
 Well No.: 4101GH API No.: 42-105-42313 Drilling Permit No.: 811281  
 Lease Name: University Salt Draw Lease No.: 17576  
 Field Name: Lin (Wolfcamp) Field No.: 53613750

### I. CASING CEMENTING DATA

Type of casing:  Conductor  Surface  Intermediate  Liner  Production  
 Drilled hole size (in.): 8 3/4" x 8 1/2" Depth of drilled hole (ft.): 17295' Est. % wash-out or hole enlargement: 0  
 Size of casing in O.D. (in.): 5 1/2" Casing weight (lbs/ft) and grade: 17# HC-P110 No. of centralizers used: 92  
 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.): 17290' Top of liner (ft.):  
 Hrs. waiting on cement before drill-out: Calculated top of cement (ft.): 0' Cementing date: 06/16/2016

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1	575	C	See Remarks	1575.5	6167'
2	1935	H	See Remarks	2573.55	11123'
3				4149.05	17290'
<b>Total</b>	2510				

### 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:  
 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					
<b>Total</b>					

### 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:  
 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					
<b>Total</b>					

**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)							

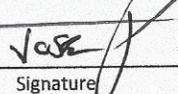
**REMARKS**

Slurry 1: Gel,C-45,C-47B,Citric Acid,CSA-1000,Kol Seal,Gyp Seal. Slurry 2: Gel,C-20,C-47B,CSA-1000, COMMENTS:  
Circulated 1 bbls Of 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.

**Jose M Perez / Cementser**

Compass Cementing Services, LLC



Name and title of cementer's representative

Cementing Company

Signature

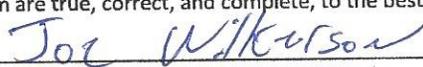
10013 West County Rd. 157

Midland, TX 79706 432-561-5970

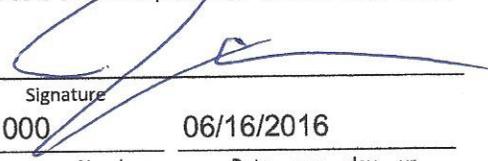
06/16/2016

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.



Site Supervisor



Typed or printed name of operator's representative

Title

Signature

EP Energy E&P Company, L.P., P.O. Box 4660, Houston Tx 77210-4660

(713) 997-1000

06/16/2016

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.

Tracking No.: 164999

*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: EP ENERGY E&P COMPANY, L.P.	District No. 7C	Completion Date: 10/06/2016
Field Name LIN (WOLFCAMP)	Drilling Permit No. 811281	
Lease Name UNIVERSITY SALT DRAW	Lease/ID No. 18942	Well No. 4101GH
County CROCKETT	API No. 42- 105-42313	

**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: GAMMA RAY LOG ATTACHED

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). \_\_\_\_\_

Jessica High  
 Signature  
EP ENERGY E&P COMPANY, L.P.  
 Name (print)

Regulatory Analyst II  
 Title  
(713) 997-6632 01/05/2017  
 Phone Date

-FOR RAILROAD COMMISSION USE ONLY-



RAILROAD COMMISSION OF TEXAS

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: EP ENERGY E&P COMPANY, L.P. Operator P-5 No.: 253385
Operator Address: P.O. BOX 4660, HOUSTON, TX 77210-4660

SECTION II. WELL INFORMATION

District No.: 7C County: CROCKETT Purpose of Filing:
Well No.: SEE BELOW API No.: SEE BELOW
Total Lease Acres: 34,139.427 Drilling Permit No.:
Lease Name: UNIVERSITY SALT DRAW Lease No.: 18942
Field Name: LIN (WOLFCAMP) Field No.: 53613750
Completion Report (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 estate under each tract for which filer is listed as operator below.

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER

Table with 8 columns: RRC ID No. or Lease No., Well No., H-Horizontal D-Directional V-Vertical, Lease Name, API No., Acres Assigned, SWR 38 Except. (Y/N), Operator Name and Operator No. (if different from filing operator)

Summary table for Section III with columns for Total Well Count, Total Assigned Horiz. Acreage, Total Remaining Horiz. Acreage, Total Assigned Vert./Dir. Acreage, Total Remaining Vert./Dir. Acreage, and Total Assigned Acreage.

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

TOTALS ON PG 1A.

Attach Additional Pages As Needed. [ ] No additional pages [x] Additional Pages: 1 (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature: Jessica D. High, Regulatory Analyst II, jessica.high@epenergy.com

Address: PO BOX 4660 HOUSTON, TX 77210 City, State, Zip Code Tel: (713) 997-6632 Date: 11/23/16



## 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](http://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: 31.037781° N  
 Longitude: 101.119764° W  
 X=1753708.05  
 Y=499522.70  
 2550' FNL & 2492' FWL

First Take Point (FTP Sec. 1)  
 Latitude: 31.036172° N  
 Longitude: 101.119876° W  
 X=1753668.96  
 Y=498937.86  
 2307' FSL & 2455' FWL

Last Take Point (LTP Sec.13)  
 Latitude: 31.008285° N  
 Longitude: 101.119836° W  
 X=1753609.74  
 Y=488795.93  
 2398' FNL & 2426' FWL

Bottom Hole Location (BHL Sec.13)  
 Latitude: 31.008015° N  
 Longitude: 101.119796° W  
 X=1753621.56  
 Y=488697.64  
 2496' FNL & 2438' FWL

**EP ENERGY<sup>®</sup>**  
 Lease Name and Well Number  
**UNIVERSITY SALT DRAW 4101GH AS-DRILLED**  
 Topography and Vegetation  
 SCATTERED MESQUITE and CACTUS  
 636 MILES SOUTHEAST OF BARNHART, TEXAS

Unit Boundary	Distance
SHL	8321' FNL & 8407' FWL
PP	7992' FNL & 7780' FWL
FTP	8577' FNL & 7743' FWL
LTP	18719' FNL & 7716' FWL
BHL	18817' FNL & 7728' FWL

FTP-LTP 10150'

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



NOTE: This Plat does not, in anyway represent a "Boundary Survey", and does not comply with the current T.S.P.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.

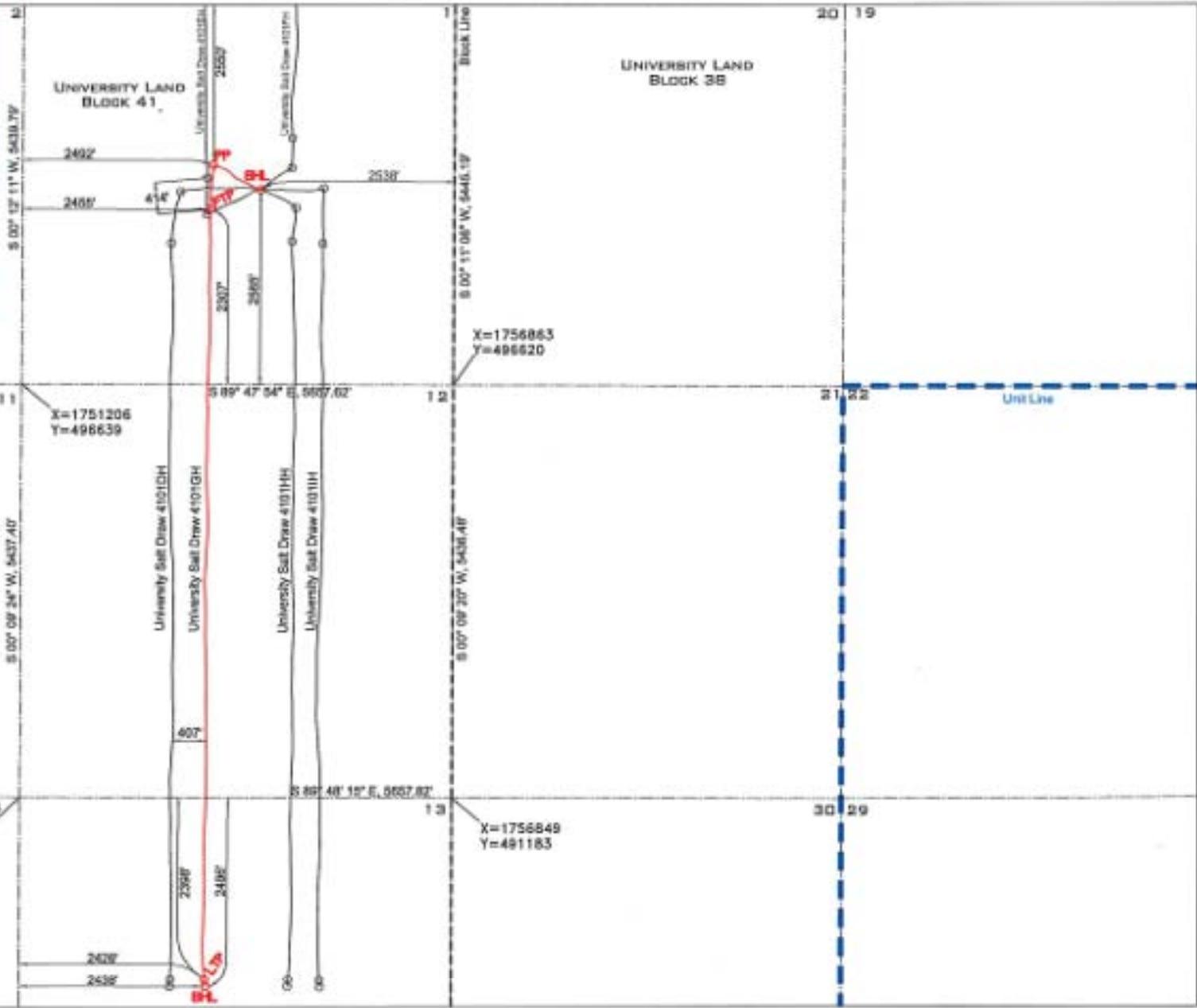
NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations.

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



22 Nov 2016  
 DATE

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



**KSA Energy Services**

140 E. Tyler St., Ste 400 Longview, Texas 75801  
 T: 409-336-7700 F: 409-336-0178  
 www.ksaenergy.com  
 Equal Opportunity Employer

EP ENERGY E&P COMPANY, L.P.

EPEN454

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

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: 31.037781° N  
 Longitude: 101.119764° W  
 X=1753708.05  
 Y=499522.70  
 2550' FNL & 2492' FWL

First Take Point (FTP Sec. 1)  
 Latitude: 31.036172° N  
 Longitude: 101.119876° W  
 X=1753668.96  
 Y=498937.86  
 2307' FSL & 2455' FWL

Last Take Point (LTP Sec.13)  
 Latitude: 31.008285° N  
 Longitude: 101.119836° W  
 X=1753609.74  
 Y=488795.93  
 2398' FNL & 2426' FWL

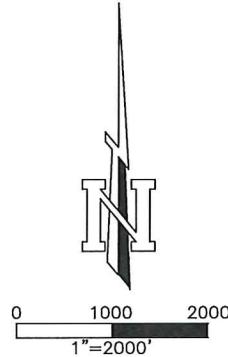
Bottom Hole Location (BHL Sec.13)  
 Latitude: 31.008015° N  
 Longitude: 101.119796° W  
 X=1753621.56  
 Y=488697.64  
 2496' FNL & 2438' FWL

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

Unit Boundary Distance	
SHL	8321' FNL & 8407' FWL
PP	7992' FNL & 7780' FWL
FTP	8577' FNL & 7743' FWL
LTP	18719' FNL & 7716' FWL
BHL	18817' FNL & 7728' FWL

FTP-LTP 10150'

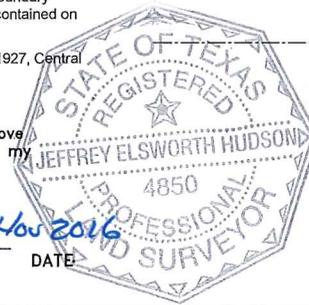
EP ENERGY  
 E&P COMPANY, L.P.  
 34,139.427 Acres (Called)  
 "University Salt Draw"



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.

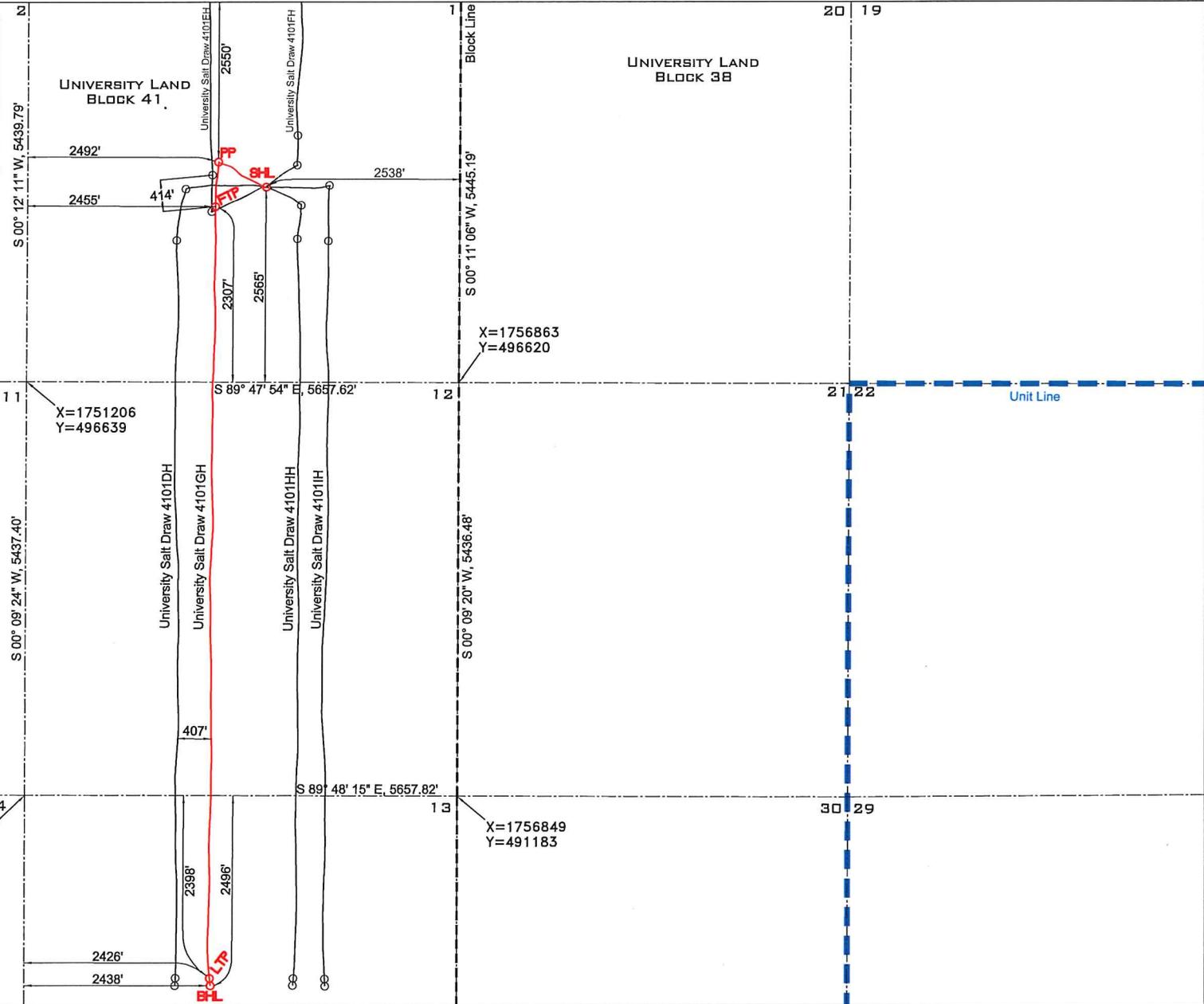
NOTE: Bearings and coordinates refer to the Texas Coordinate System of 1927, Central Zone (4203), as observed by GPS observations

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



DATE

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



**KSA** Energy Services

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

EP ENERGY E&P COMPANY, L.P.

EPEN.454

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