



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Approved
Date: 11/24/2015
Tracking No.: 120214

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

OPERATOR INFORMATION

Operator Name: JAGGED PEAK ENERGY LLC Operator No.: 429574
Operator Address: 1125 17TH STREET SUITE 2400 DENVER, CO 80202-0000

WELL INFORMATION

API No.: 42-475-36612 County: WARD
Well No.: 1H RRC District No.: 08
Lease Name: UTL 38-17 Field Name: TWO GEORGES (BONE SPRING)
RRC Lease No.: 47043 Field No.: 92100050
Location: Section: 38, Block: 17, Survey: UL, Abstract:

Latitude: 31.55633 Longitude: -103.19268
This well is located 5 miles in a NW
direction from PYOTE,
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: 09/01/2014

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	01/10/2014	776529
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 01/31/2014	Date of first production after rig released: 09/01/2014
Date plug back, deepening, recompletion, or drilling operation commenced: 01/31/2014	Date plug back, deepening, recompletion, or drilling operation ended: 05/08/2014
Number of producing wells on this lease in this field (reservoir) including this well: 1	Distance to nearest well in lease & reservoir (ft.): 0.0
Total number of acres in lease: 320.35	Elevation (ft.): 2658 GL
Total depth TVD (ft.): 12065	Total depth MD (ft.): 12065
Plug back depth TVD (ft.):	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? Yes	Rotation time within surface casing (hours): 100.0
Recompletion or reclass? No	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: Gamma Ray (MWD)	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: 300.0 Feet from the NE Line and 990.0 Feet from the NW Line of the UTL 38-17 Lease.	

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

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

PACKET: N/A

W2:	N/A		
FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:			
GAU Groundwater Protection Determination	Depth (ft.):	1000.0	Date: 01/08/2014
SWR 13 Exception	Depth (ft.):	5100.0	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION		
Date of test: 10/13/2014		Production method: Flowing
Number of hours tested: 24		Choke size: 20
Was swab used during this test? No		Oil produced prior to test: 117.88
PRODUCTION DURING TEST PERIOD:		
Oil (BBLS): 92.00		Gas (MCF): 151
Gas - Oil Ratio: 1641		Flowing Tubing Pressure: 20.00
Water (BBLS): 165		
CALCULATED 24-HOUR RATE		
Oil (BBLS): 92.0		Gas (MCF): 151
Oil Gravity - API - 60.: 42.2		Casing Pressure: 20.00
Water (BBLS): 165		

CASING RECORD											
Row	Type of Casing	Casing	Hole	Setting	Multi -	Multi -	Cement	Cement	Slurry	Top of	TOC
		Size	Size	Depth	Stage	Tool		Amount	Volume	Cement	Determined
		(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
1	Surface	9 5/8	12 1/4	4899			C	1850	3527.7	0	Circulated to Surface
2	Intermediate	7	8 3/4	11145			C	785	1582.0	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	Size (ft.)
1	2 7/8	10941	
		Packer Depth (ft.)/Type	
		/	

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	Yes	L1 9800	11442.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		No	
Is well equipped with a downhole actuation sleeve?		If yes, actuation pressure (PSIG):	
No			
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>	
RUSTLER	Yes	1700.0	1700.0	Yes	CASING SET THRU THIS ZONE	
YATES	Yes	2000.0	2800.0	Yes	CASING SET THRU THIS ZONE	
SEVEN RIVERS	Yes	2375.0	2375.0	Yes	CASING SET THRU THIS ZONE	
QUEEN	Yes	2200.0	2200.0	Yes	CASING SET THRU THIS ZONE	
GLORIETA	Yes	3900.0	3900.0	Yes	CASING SET THRU THIS ZONE	
SAN ANDRES - HIGH FLOWS, H2S, CORROSIVE HOLT	Yes	4500.0	4500.0	Yes	CASING SET THRU THIS ZONE	
	Yes	4600.0	4600.0	Yes	CASING SET THRU THIS ZONE	
CLEARFORK	Yes	4500.0	4500.0	Yes	CASING SET THRU THIS ZONE	
DELAWARE	Yes	2300.0	2300.0	Yes	CASING SET THRU THIS ZONE	
TUBB	Yes	4600.0	4600.0	Yes	CASING SET THRU THIS ZONE	
WICHITA ALBANY	Yes	6000.0	6000.0	Yes	CASING SET THRU THIS ZONE	
CHERRY CANYON	Yes	7800.0	7800.0	Yes	CASING SET THRU THIS ZONE	
WADDELL	Yes	7600.0	7600.0	Yes	CASING SET THRU THIS ZONE	
BONE SPRINGS	Yes	8376.0	8384.0	Yes	PRODUCING ZONE	
WOLFCAMP	No			No	NOT DRILLED TO THIS DEPTH	
MONTOYA	No			No	NOT DRILLED TO THIS DEPTH	
PENNSYLVANIAN	No			No	NOT DRILLED TO THIS DEPTH	
ATOKA	No			No	NOT DRILLED TO THIS DEPTH	
FUSSELMAN	No			No	NOT DRILLED TO THIS DEPTH	
DEVONIAN	No			No	NOT DRILLED TO THIS DEPTH	
ELLENBURGER	No			No	NOT DRILLED TO THIS DEPTH	
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

RRC REMARKS	
PUBLIC COMMENTS: [RRC Staff 2015-08-14 09:34:43.666] EDL=1642 feet, max acres=480, TWO GEORGES (BONE SPRING) 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: Connie Mitchell	Title:
Telephone No.: (720) 215-3628	Date Certified: 11/20/2015

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

LROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) JAGGED PEAK ENERGY	2. RRC Operator No.	3. RRC District No.	4. County of Well Site WARD
5. Field Name (Wildcat or exactly as shown on RRC Records)		6. API No.	7. Drilling Permit No.
8. Lease Name UNIVERSITY LANDS 38-17	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 1H

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						2/7/14	2/7/14
13. • Drilled Hole Size							12-1/4"
• Est. % wash or hole enlargement							9-5/8"
14. Size of casing (in. O.D.)							
15. Top of liner (ft.)							4899'
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1 st Slurry	19. API cement used: No. of sacks ▶					390	1460
	Class ▶					C	C
	Additives ▶					REMARKS 3	REMARKS 1
2 nd Slurry	No. of sacks ▶						250
	Class ▶						C
	Additives ▶						REMARKS 2
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 st	20. Slurry pumped: Volume (cu. ft.) ▶					668.4	2525.3
	Height (ft.) ▶					3567.5	8067.2
2 nd	Volume (cu. ft.) ▶						334
	Height (ft.) ▶						1057.7
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶					668.4	2859.3
	Height (ft.) ▶					3567.5	9124.9
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?						YES	NO
(22).Remarks 1: .005 lbs/sks Static Free + .5% bwoc Calcium Chloride + .3% bwoc R-3 + .1% bwoc CD-32 + .3% bwoc FL-52 + .005 gps FP-6L + 4% bwoc Bentonite Remarks 2: .005 lbs/sks Static Free + 1% bwoc Calcium Chloride + .2% bwoc R-3 + .005 gps FP-6L Remarks 3: .005 lbs/sks Static Free + 1% bwoc Calcium Chloride + .005 gps FP-6L + 4% bwoc Bentonite Remarks: 30 BBLS CEMENT TO SURFACE = 99 SKS							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties 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.

James Home-Service Supervisor

Name and title of cementer's representative

BJ Services Company

Cementing Company

Signature

P.O. Box 4717

Address

Odessa,

City,

Texas

State,

79760

Zip Code

(432) 381-2301

Tel: Area Code

Number

2/7/14

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.

Jonathan Jagers

Typed or printed name of operator's representative

Facilities Engineer

Title

Signature

1125 17th Street, Suite 2400, Denver, CO, 80202

Address

City,

State,

Zip Code

720-215-3629

Tel.: Area Code

Number

10/14/15

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

- 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. Form W-15 should be filed with the following.
 - An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
 - Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
 - Form W-3, Plugging Record, unless the 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. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.
- D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.

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

LAND COMMISSION OF TEXAS
Oil and Gas Division

RECEIVED
APR 21 2014

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form F-5, Organization Report) JAGGED PEAK ENERGY	2. RRC Operator No.	3. RRC District No. Per	4. County of Well Site WARD
5. Field Name (Wildcat or exactly as shown on RRC Records)		6. API No. 42475366120000	7. Drilling Permit No.
8. Lease Name UNIVERSITY LANDS 38-17	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 1H

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						04/08/2014	04/08/2014
13. • Drilled Hole Size							8-3/4"
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)							7"
15. Top of liner (ft.)							
16. Setting depth (ft.)							11,145'
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1 st Slurry	19. API cement used: No. of sacks ▶					100	585
	Class ▶					50 POZ 50 C:10 GEL	50 POZ 50 H 10 GEL
	Additives ▶					Remarks #3	Remarks #1
2 nd Slurry	No. of sacks ▶					100	200
	Class ▶					C	H
	Additives ▶					Remarks # 4	Remarks #2
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						Remarks #
1 st	20. Slurry pumped: Volume (cu. ft.) ▶						1346
	Height (ft.) ▶						8955
2 nd	Volume (cu. ft.) ▶						236
	Height (ft.) ▶						1570
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						1582
	Height (ft.) ▶						10525
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?							NO
(22) Remarks #1 10% BENTONITE+0.005#/SK STAINC FREE+0.2% CD-32+0.5% FL-52A+0.15% SAS-301+0.005 GPS FP-6L+0.2% R-21+130.4% FRESH WATER							
Remarks #2 0.005#/SK STSTIC FREE+0.5% FL-25+0.005 GPS FP-6L+0.2% SODIUM METASILICATE+42.6% FRESH WATER							
Remarks #3 CANCELED SECOND STAGE							
Remarks #4 -CIR. TO PIT BBL SKS							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date								
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)								
27. Slurry volume pumped (cu. ft.)								
28. Calculated top of plug (ft.)								
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)								
31. Type cement								

CEMENTER'S CERTIFICATE: I declare under penalties 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.

RENE MARTINEZ—Service Supervisor

Name and title of cementer's representative

Baker Hughes Pressure Pumping Services

Cementing Company


Signature

P.O. Box 4717

Address

Odessa,

City,

Texas

State,

79760

Zip Code

(432) 381-2301

Tel: Area Code

Number

04/08/2014

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.

Jonathan Jaggers

Typed or printed name of operator's representative

Facilities Engineer

Title


Signature

1125 17th Street, Suite 2400, Denver, CO, 80202

Address

City,

State,

Zip Code

720-215-3629

Tel.: Area Code

Number

10/14/15

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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. Form W-15 should be filed with the following.

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the 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. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.

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

ILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report) JAGGED PEAK ENERGY	2. RRC Operator No.	3. RRC District No.	4. County of Well Site WARD
5. Field Name (Wildcat or exactly as shown on RRC Records)		6. API No. 42475366120000	7. Drilling Permit No.
8. Lease Name UNIVERSITY LANDS 38-17	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No. 1H

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date							
13. • Drilled Hole Size							
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)							
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1 st Slurry	19. API cement used: No. of sacks ▶						
	Class ▶						
	Additives ▶						
2 nd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
3 rd Slurry	No. of sacks ▶						
	Class ▶						
	Additives ▶						
1 st	20. Slurry pumped: Volume (cu. ft.) ▶						
	Height (ft.) ▶						
2 nd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
3 rd	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
Total	Volume (cu. ft.) ▶						
	Height (ft.) ▶						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?							
22. Remarks 1.) C CEMENT+0.005% STATIC FREE+1% SODIUM CHLORIDE+0.5% CD-32+1.2% FL-62+0.005 GPS FP-6L+0.5% SODIUM METASILICATE+77.9% FRESH WATER 2.) CEMENT PUMPED VIA 2IN IRON THROUGH 4" DRILL PIPE SHOE SQUEEZE.							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date	3/1/2014							
24. Size of hole or pipe plugged (in.)								
25. Depth to bottom of tubing or drill pipe (ft.)								
26. Sacks of cement used (each plug)	200							
27. Slurry volume pumped (cu. ft.)	60							
28. Calculated top of plug (ft.)	4393							
29. Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)	14.8							
31. Type cement	C							

CEMENTER'S CERTIFICATE: I declare under penalties 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.

Rene Martinez—Service Supervisor

Name and title of cementer's representative

Baker Hughes Pressure Pumping

Cementing Company

Signature

P.O. Box 4717

Address

Odessa,

City,

Texas

State,

79760

Zip Code

(432) 381-2301

Tel: Area Code

Number

03/01/2014

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.

Jonathan Jagers

Typed or printed name of operator's representative

Facilities Engineer

Title

Signature

1125 17th Street, Suite 2400, Denver, CO, 80202

Address

City,

State,

Zip Code

720-215-3629

Tel: Area Code

Number

10/14/15

Date: mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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. Form W-15 should be filed with the following.

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the 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. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.



RAILROAD COMMISSION OF TEXAS

STATEWIDE RULE 13 EXCEPTION APPLICATION/ALTERNATIVE REQUEST

Surface Casing: 13(b)(1)(H), Tubing: 13(b)(4)(B), Drilling Fluid: 13(a)(6)(C), or Non-standard Cement 13(b)(1)(D)

1. Operator: Jagged Peak Energy		2. P-5 No.: 429574		3. Lease Name: UTL 38-17		4. Well No.: 1H	
5. Street Address: 1125 17th St. Suite 2400 Denver, CO 80202				6. RRC District: 8		7. Drill Permit No.: 776529	
8. Field Name: Pyote West		9. County: Ward		10. Proposed Depth: 5100		<input type="checkbox"/> TVD <input type="checkbox"/> MD	
11. Survey: UL		12. Abstract No: A-		13. Block/Township: 17		14. Section: 38	
15. GPS Datum: Texas 1927		Coordinates: N 698648.626 N, W 1109591.812 E					
16. GAU No.: 8036 (attach letter)		Recommendation Type (below)		17. Usable-Quality Water (determined by GAU): 1000 ft.			
<input type="checkbox"/> Well <input type="checkbox"/> Lease <input type="checkbox"/> Survey <input type="checkbox"/> Pad <input type="checkbox"/> Radius:		Separation points: ft.					

18. Exception Request: <input type="checkbox"/> Short Surface Csg <input checked="" type="checkbox"/> Excess Surface Csg <input type="checkbox"/> Single-string <input type="checkbox"/> Tubing <input type="checkbox"/> Area-wide ²	
19. Alternate Program Request: <input checked="" type="checkbox"/> Drilling Fluid Program <input type="checkbox"/> Non-API Cement <input type="checkbox"/> Other: _____	
20. Reason for this request: <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Technical <input type="checkbox"/> Other Please explain: Additional Casing string for zone isolation will be mor If this application includes a request for exception to tubing requirements outlined in 13(b)(4)(A), indicate requested duration: _____	
21. Is this a proposed injection or disposal well ³ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
22. Is this a Minimum Separation well ⁴ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
23. Are there any water wells within 1/4 mile of this proposed well location ⁵ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, provide information requested below Type of water well: _____ Depth: _____ Distance: _____ Direction: _____	
24. Are there any INJECTION or DISPOSAL wells within 1/4 mile of the proposed well location ⁶ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, list names and depths of all formations permitted for INJECTION OR DISPOSAL within 1/4 miles of the well location ⁷ : _____	
25. Have there been any blowouts within a mile of this wellsite ⁸ ? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, name operator(s), lease(s), and date(s) blowout(s) occurred: _____	

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST CONTACT THE DISTRICT OFFICE IMMEDIATELY AND FOLLOW THE PROCEDURES SET OUT IN RULE 13(B)(2)(g)(III) OR AS REQUIRED BY THE DISTRICT OFFICE.

		Surface Casing			Intermediate Casing			Production Casing		
26. Proposed Casing and Cementing Program		12.25			8.75			6.125		
Hole Size (in.)		12.25			8.75			6.125		
O.D. (in.), Grade, Weight (lb/ft.)		9.625	J-55	40	7	P-110	29	4.5	P-110	13.5
Setting Depth (ft.)		5100			11,800			16,125		
Multi-Stage Tool Depth (ft.)		1050			5150			Liner		
LEAD/FILLER CEMENT	Type and Free Water Content	WB - Class C 0			WB - Class H 1.0 ml at 45 deg.			1 blend job		
	# of Sacks and Yield (cu. ft/sk)	1945 1.74			610 2.3					
	Cement Additives	2% bwoc Calcium Chloride, 4% Ber			10% bwoc Bentonite					
	24/72-Hr. Comp. Strength (psi)	805 1406			156 500					
	Cement Height (TOC) (ft.)	surface			5100					
	% Excess	130			70					
	Type and Free Water Content	WB - Class C 1.0 ml at 90 deg.			WB - Class H 0 at 45 deg.			WB - Class H 0		
	# of Sacks and Yield (cu. ft/sk)	250 1.34			200 1.18			255 1.61		
TAIL/CRITICAL CEMENT	Cement Additives	1% Calcium Chloride, 4% Bentonite			10% bwoc Bentonite			1% bwoc Fluid Loss additive		
	24/72-Hr. Comp. Strength (psi)	949 1961			1409 3010			1900 2500		
	Cement Height (TOC) (ft.)	4050			1270			10800		
	Centralizers No. & Placement ⁹	30 centralizers, 1 on shoe joint and			60, 1 on shoe joint and one every 4			None		
	% Excess	100			20			30		

PROVISIONS APPLICABLE TO RULE 13 EXCEPTIONS:

1. REQUESTS FOR EXCEPTIONS TO STATEWIDE RULE 13 SUBMITTED AFTER THE WELL HAS BEEN DRILLED OR COMPLETED MAY RESULT IN ENFORCEMENT ACTION AGAINST THE OPERATOR.
2. For area-wide exception requests, please provide additional information which clearly defines the area to be exempted. Area-wide approvals are NOT allowed for short surface casing applications (only approved on a well-by-well basis). Note: District Offices are not required to grant area-wide exceptions.
3. **Caution:** If this well is being drilled for injection or disposal purposes, a(n) injection/disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater.
4. A **Minimum Separation Well**, further defined in section 13(a)(2)(L), is a well in which hydraulic fracturing treatments will be conducted AND for which: the vertical distance between BUQW and the top of the formation to be fracture stimulated is less than 1000 ft. or for which the District Director has determined there to be inadequate separation between the BUQW and the top of the formation to be fracture stimulated.
5. Review applications 1-3 (Groundwater Database, Submitted Driller's Report, and Brackish Groundwater Database) at the following link to determine location(s) of water wells within ¼ mile of the proposed well: <http://wiid.twdb.texas.gov/>.
6. Refer to the Railroad Commission of Texas Public GIS map viewer to locate injection and disposal wells within ¼ mile of the well(s) mentioned on this application: <http://www.rrc.state.tx.us/data/online/gis/index.php>.
7. Review W-14 or H-1a applications at (<http://www.rrc.state.tx.us/data/online/OGLmagedRecordsQuery.php>) to determine permitted injection/disposal zones for wells within ¼ mile of the proposed well. Additionally, refer to Rule 13 Formation Tables provided on the RRC website for information regarding saltwater, H2S, and other notable formation depths by county. (<http://www.rrc.state.tx.us/environmental/rule13/index.php>). Statewide Rule 13 may require additional cementing across these formations.
8. Blowout and well-control problem records can be found at the following URL: <http://www.rrc.state.tx.us/data/drilling/blowouts/index.php>.
9. Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(1)(G).
10. Notify District Office at least 8 hours prior to setting and cementing casing.
11. The alternative surface casing program authorized by this letter is subject to the condition that drilling fluid used while drilling to the base of usable quality groundwater have a salinity of 3000 ppm TDS or less and be conditioned to form a filter cake sufficient to prevent infiltration into the protected water while drilling with fluid having a salinity greater than 3000 ppm TDS below the base of usable quality groundwater to the approved surface casing depth. *The use of oil-based and emulsion drilling fluids are prohibited until casing is set and cemented across the base of usable quality groundwater.*
12. **Note:** The following attachments may be requested by the District Office:
 - a. Proposed wellbore diagram or cementing proposal
 - b. Lab reports containing compressive strength and free water data for Lead and/or Tail Slurry
 - c. Any other information that may be required by the District Office.
13. Please note that a copy of the approved application form must be kept on location during all phases of drilling and/or plugging operations. Once approved, changes CANNOT be made to the Proposed Casing and Cementing Program on the original application without additional approval from the District Office.

OPERATOR CONTACT INFORMATION			
Signature: X	Name: Joshua Chevalier	Title: Drilling Manager	
Date: 1/10/2013	Phone: 303-895-4982	Fax: 720-215-3690	
Email Address (optional): jchevalier@jaggedpeakenergy.com			

RRC
Use
Only ▶

RRC District Office Action:		Ref. No:	
TUBING EXCEPTION: <input type="checkbox"/> Approved <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied	By:		Date:
SURFACE CASING EXCEPTION: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied	By:		Date: 1-14-14
DRILLING FLUID PROGRAM: <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied	By:		Date: 1-14-14
ALTERNATE CEMENT PROGRAM: <input type="checkbox"/> Approved <input type="checkbox"/> Approved as Modified <input type="checkbox"/> Denied	By:		Date:
Remarks/Modifications: Fresh water mud system required to top of salt sections			

Tracking No.: 120214

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: 09/01/2014
Field Name TWO GEORGES (BONE SPRING)	Drilling Permit No. 776529	
Lease Name UTL 38-17	Lease/ID No. 47043	Well No. 1H
County WARD	API No. 42- 475-36612	

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). _____

Connie Mitchell

Signature

JAGGED PEAK ENERGY LLC

Name (print)

Title

(720) 215-3628

Phone

08/13/2015

Date

-FOR RAILROAD COMMISSION USE ONLY-



Compensated Neutron Gamma Ray CCL Log

UTL 38-17 #1H
Two Georges (Bone Spring)
Ward
Texas

Company Jagged Peak Energy. LLC
Well UTL 38-17 #1H
Field Two Georges (Bone Spring)
County Ward State Texas

Location: API #: 42-475-36612
990' FNL & 300' FEL
Section 38, Block 17
University Lands Survey
SEC TWP RGE
Permanent Datum Ground Level Elevation 2658'
Log Measured From KB ' APD
Drilling Measured From KB
Other Se
RE
Ter
Eleva
K.B.
D.F.
G.L. 265

Number	4/10/2014		
Driller	One		
Logger	11154'		
h Logged Interval	11154'		
og Interval	11151'		
Hole Size	3000'		
Fluid	8 3/4"		
y / Viscosity	Water		
Recorded Temp.	-		
ated Cement Top	-		
Well Ready	3310'		
Logger on Bottom	On Arrival		
ment Number	See Log		
on	WL - 810		
ded By	Midland, Texas		
ssed By	Aaron Vaughan	Gene Osborn	
	Cody Long		

Borehole Record				Tubing Record			
Number	Bit	From	To	Size	Weight	From	
One	12 1/4"	Surface	4900'				
Two	8 3/4"	4900'	11154'				
g Record		Size	Wgt/Ft		Top	Bottom	
e String		9 5/8"	40#		Surface	4900'	
tring							
ction String		7"	29#		Surface	11145'	
ol		5054' to 5058'					

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

P-4

This facsimile P-4 was generated electronically from data submitted to the RRC.

A certification of the automated data is available in the RRC's Austin office.

Tracking No.: 120214

1. Field name exactly as shown on proration schedule TWO GEORGES (BONE SPRING)		2. Lease name as shown on proration schedule UTL 38-17					
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 47043	6. County WARD	7. RRC district 08		
8. Operator address including city, state, and zip code 1125 17TH STREET SUITE 2400 DENVER, CO 80202		9. Well no(s) (see instruction E) 1H					
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G) a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code <input type="checkbox"/> field name from _____ <input type="checkbox"/> lease name from _____ --- OR --- b. New RRC Number for: <input checked="" type="checkbox"/> oil lease <input type="checkbox"/> gas well Due to: <input checked="" type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil <input type="checkbox"/> other well (specify) _____ <input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date 09/01/2014			
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 PERMIAN LP(836039)			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	
PLAINS MARKETING, L.P.(667883)						100.0	
RRC USE ONLY: Reviewer's initials: <u>RRC Staff</u> Approval date: <u>11/24/2015</u>							
15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.							
Name of Previous Operator _____ Name (print) _____ Title _____				Signature <input type="checkbox"/> Authorized Employee of previous operator <input type="checkbox"/> Authorized agent of previous operator (see instruction G) _____ Date _____ Phone with area code _____			
16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.							
JAGGED PEAK ENERGY LLC Name (print) _____ Title <u>cmitchell@prof-data.com</u> E-mail Address (optional) _____				Connie Mitchell Signature <input type="checkbox"/> Authorized Employee of current operator <input checked="" type="checkbox"/> Authorized agent of current operator (see instruction G) <u>04/23/2015</u> Date _____ Phone with area code <u>(720) 215-3628</u>			

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15
(5-5-71)

The undersigned states that he is authorized to make this statement; that he has knowledge of the facts concerning the Jagged Peak Energy LLC

UTL 38-17

OPERATOR

LEASE

, No. 1H

WELL

completed in the Two Georges (Bone Spring) Field, Ward 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 _____

320.35

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 9/24/2015

Signature _____

Telephone (720) 480-5869

AREA CODE

Title Facilities Engineer

STATEMENT OF PRODUCTIVITY OF ACREAGE
ASSIGNED TO PRORATION UNITS

Form P-15

Tracking No.: 120214

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 JAGGED PEAK ENERGY LLC ,

UTL 38-17 , No. 1H ; that such well is
LEASE OPERATOR WELL

completed in the TWO GEORGES (BONE SPRING) Field, WARD 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 _____

320.35 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 09/26/2015 Signature Connie Mitchell

Telephone (720) 215-3628 Title _____
AREA CODE

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date January 8, 2014

GAU File No.: SC- 8036

***** EXPEDITED APPLICATION *****

API Number 47500000

Attention: JOSHUA CHEVALIER

RRC Lease No. 115777

SC_429574_47500000_115777_8036.pdf

JAGGED PEAK ENERGY MANAGEMENT
125 17TH ST
STE 2400
DENVER CO 80202

--Measured--

300 ft FNEL

990 ft FNWL

MRL:SECTION

P-5# 429574

Digital Map Location:

X-coord/Long 1109591

Y-coord/Lat 698648

Datum 27 Zone C

County WARD

Lease & Well No. UTL 38-17 #1H

Purpose ND

Location SUR-UL,BLK-17,SEC-38,-- [TD=11400] , [RRC 8] ,

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

The interval from the land surface to the base of the SANTA ROSA,
which is estimated to occur at a depth of 1000 feet, must be protected.

Note: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operation into a nonproductive zone (RRC Form W-14).

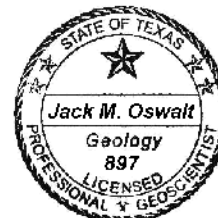
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,

Jack M. Oswalt, P.G.

Geologist, Groundwater Advisory Unit
Oil & Gas Division

GEOLOGIST SEAL



The seal appearing on this document was authorized by Jack M. Oswalt on 1/8/2014
Note: Alteration of this electronic document will invalidate the digital signature.

Block 17, University Lands Survey Ward County, Texas

37

GRID N: 698201.859
GRID E: 1104533.468

GRID N: 699683.097
GRID E: 1109602.308

2

1

N 73°42'37" E 5280.83'

24

23

JAGGED PEAK ENERGY

2129'

321'

961'

990'

1025'

625'

LTP/BHL

PR

#1H (SHL)

EL.

2658

#4H

#2H

320.6 Acres

UTL 38-17

GRID N: 695664.077
GRID E: 1105274.366

GRID N: 697145.617
GRID E: 1110343.163

N 16°16'30" W 5287.44'

N 16°16'33" W 5286.84'

Driving Directions to Location:

From intersection of I-20 and Hwy 115 in Pyote, Texas;
Drive North on Hwy 115, 0.4 miles to Hwy 2355;
Turn left (West) on to Hwy 2355, drive 4.8 miles to a lease road at Lat: 31°33'43.91", Long: 103°11'28.01";
Turn left (Southwest) on to lease road, drive 0.4 miles to Lat: 31°33'25.77", Long: 103°11'31.49";
Turn right (West) on to road, drive 0.4 miles to the end of the road;
Turn right (North) on to road, drive 195 feet to a road at Lat: 31°33'20.04", Long: 103°11'57.35";
Turn right (South) on to road, drive 200 feet to lease road at Lat: 31°33'19.09", Long: 103°11'55.36";
Turn left (East) on to lease road, drive 0.4 miles to Lat: 31°33'25.06", Long: 103°11'33.76";
Location is right (South) 240 feet.

38

GRID N: 693126.295
GRID E: 1106015.263

N 73°42'14" E 5280.92'

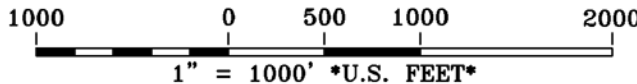
GRID N: 694608.136
GRID E: 1111084.017

43

39

22

GRAPHIC SCALE



LATERALS

SHL - PP/FTP N 52°08'08" W 36.24'
PP/FTP - LTP/BHL S 71°39'50" W 1808.51'
SHL - BHL S 72°36'26" W 1828.92'
(The values shown are the straight-line bearings and distances between the indicated points.)

Surface Hole Location (SHL)

GRID N: 698648.626
GRID E: 1109591.812
NAD'83 Lat/Long
Lat: +31°33'22.787"/Lat: +31.556330°
Long: -103°11'33.668"/Long: -103.192685°

Penetration Point (PP)

GRID N: 698670.869
GRID E: 1109563.203
NAD'83 Lat/Long
Lat: 31°33'22.999"/Lat: 31.554704°
Long: 103°11'34.005"/Long: -103.198242°

Bottom Hole Location (BHL)/

Last Take Point (LTP)
GRID N: 698101.926
GRID E: 1107846.512
NAD'83 Lat/Long
Lat: 31°33'16.933"/Lat: 31.556389°
Long: 103°11'53.670"/Long: -103.192779°

Note: Well location is 4.2 miles Northwest of the city of Pyote, 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.

Note: Location of surface hole is as-staked and was not re-surveyed for this plat.

Note: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.

Note: Coordinates shown herein are on The Texas Coordinate System of 1927, Central Zone.



Stephen P. Marlowe
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5715



December 18, 2013

131218JR-KLB

P.O. Box 51887, Midland, Texas, 79710 (432) 262-0901 Fax (432) 262-0679

Revised: 09/21/2015-KRM
USGS Quadrangle Sheet: Pyote West, Tex.

Railroad Commission Permit Plat

JAGGED PEAK ENERGY
UTL 38-17 #1H (As-Drilled)
990' FROM NORTH LINE
300' FROM EAST LINE
UTL 38-17 Lease
320.6 Acres being the N/2 of
Section 38, Block 17
University Lands Survey
Ward County, Texas

Scale: 1" = 1000'