

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-

FORM W-1H

Supplemental Horizontal Well Information

Permit Status: **Approved**

The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.

*This facsimile W-1 was generated electronically from data submitted to the RRC.
A certification of the automated data is available in the RRC's Austin office.*

Permit # **805830**

Approved Date: **04/24/2015**

1. RRC Operator No. 429574	2. Operator's Name (as shown on form P-5, Organization Report) JAGGED PEAK ENERGY LLC	3. Lease Name UTL L.J. BELDIN 1211-17	4 Well No. 2H
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Lateral Drainhole Location Information

5. Field as shown on Form W-1 **PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)**

6. Section 45	7. Block 21	8. Survey UNIVERSITY LANDS	9. Abstract	10. County of BHL WINKLER
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11. Terminus Lease Line Perpendiculars
500.0 ft. from the SW line and 200.0 ft. from the NW line

12. Terminus Survey Line Perpendiculars
500.0 ft. from the SW line and 2443.0 ft. from the SE line

13. Penetration Point Lease Line Perpendiculars
500.0 ft. from the SW line and 200.0 ft. from the SE line

Railroad Commission of Texas
Oil and Gas Division
SWR #13 Formation Data
WARD (475) COUNTY

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	1700	1700		1	01/01/2014
YATES	2000	2800		2	01/01/2014
SEVEN RIVERS	2375	2375		3	01/01/2014
QUEEN	2200	3200		4	01/01/2014
GLORIETA	3900	4000		5	01/01/2014
SAN ANDRES	2000	4500	high flows, H2S, corrosive	6	01/01/2014
HOLT	4600	4800		7	01/01/2014
CLEARFORK	4500	5000		8	01/01/2014
DELAWARE	2300	5000		9	01/01/2014
TUBB	4600	5300		10	01/01/2014
WICHITA ALBANY	6000	6200		11	01/01/2014
CHERRY CANYON	4800	7800		12	01/01/2014
WADDELL	7600	9700		13	01/01/2014
BONE SPRINGS	4700	9800		14	01/01/2014
WOLFCAMP	6000	12750		15	01/01/2014
MONTOYA	14500	14500		16	01/01/2014
PENNSYLVANIAN	7500	14900		17	01/01/2014
ATOKA	12000	15000		18	01/01/2014
FUSSELMAN	6400	17500		19	01/01/2014
DEVONIAN	6200	17800		20	01/01/2014
ELLENBURGER	7900	20800		21	01/01/2014

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information. <http://www.rrc.state.tx.us/oil-gas/compliance-enforcement/rule-13-geologic-formation-info>

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Form GW-2

Date

GAU File No.:

API Number

Attention:

RRC Lease No.

SC_429574_4750000_000000_8448.pdf

JAGGED PEAK ENERGY LLC
1125 17TH STREET
SUITE 2400
DENVER CO 80202
P-5# 429574

--Measured--

500 ft FSWL

500 ft FNWL

MRL: SECTION

Digital Map Location:

X-coord/Long

Y-coord/Lat

Datum Zone

County

Lease & Well No.

Purpose

Location

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

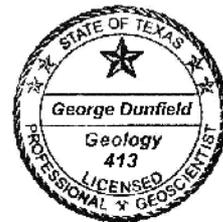
The interval from the land surface to the base of the ALLUROSA, which is estimated to occur at a depth of 850 feet, must be protected.

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,

GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by George Dunfield on 4/28/2015
Note: Alteration of this electronic document will invalidate the digital signature.

Block 21 University Lands Survey Winkler County, Texas

Last Take Point/Bottom Hole Location (LTP/BHL)
 GRID N: 739171.087
 GRID E: 1104093.485
 Lat: +31°40'02.294"
 Long: -103°12'49.326"
 Lat: +31.667304°
 Long: -103.213702°

Penetration Point/First Take Point (PP/FTP)
 GRID N: 726873.819
 GRID E: 1107685.050
 Lat: +31°38'01.551"
 Long: -103°12'04.111"
 Lat: +31.633764°
 Long: -103.201142°

Surface Hole Location (SHL)
 GRID N: 726201.859
 GRID E: 1107881.188
 Lat: +31°37'54.953"
 Long: -103°12'01.642"
 Lat: +31.631931°
 Long: -103.200456°

GRID N: 721465.032
 GRID E: 1108742.934

GRID N: 743242.324
 GRID E: 1107884.512

GRID N: 739222.684
 GRID E: 1103557.393

GRID N: 739963.884
 GRID E: 1106091.843

GRID N: 737426.904
 GRID E: 1106834.055

GRID N: 738167.846
 GRID E: 1109368.073

GRID N: 736685.962
 GRID E: 1104300.037

GRID N: 731613.737
 GRID E: 1105780.611

GRID N: 733095.531
 GRID E: 1110848.435

GRID N: 732354.634
 GRID E: 1108314.523

GRID N: 734577.324
 GRID E: 1115916.260

GRID N: 729818.499
 GRID E: 1109054.757

GRID N: 730559.373
 GRID E: 1111588.616

GRID N: 732041.122
 GRID E: 1116656.335

GRID N: 729504.919
 GRID E: 1117396.410

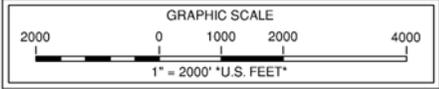
GRID N: 728023.216
 GRID E: 1112328.797

GRID N: 722946.145
 GRID E: 1113810.626

TRACTS		
Tract	Called Acreage	Description
A	320.350 Acres	W/2 Sec. 12, Blk. 17
B	160.175 Acres	SW/4 Sec. 11, Blk. 17
C	160.175 Acres	NW/4 Sec. 11, Blk. 17
D	160.175 Acres	SW/4 Sec. 45, Blk. 21
E	160.175 Acres	SE/4 Sec. 12, Blk. 17
F	320.35 Acres	S/2 Sec. 9, Blk. 17
TOTAL	1281.40 Acres	

LEGEND	
Lease Lines	---
Tract Lines	---
Proposed Wellbore	---

Note: Well is located 7.9 miles North-Northwest of Poyote, Texas.
 Note: Survey Reconstruction filed in the Office of Pennell & Marlowe Land Surveyors, Inc.
 Note: #1H SHL surveyed in the field. Location of #1H well path was determined from plat provided by client.
 Note: Coordinates shown herein are on The Texas Coordinate System of 1927, Central Zone.
 Latitudes and Longitudes shown are on NAD'83 Datum.
 Note: Bearings and distances are based on The Texas Coordinate System of 1927, Central Zone.



April 13, 2015
 150413B-JFG

Revised 4/21/2105 (JFG)
 USGS Quadrangle Sheet: Wink South, Tex.
 Railroad Commission Permit Plat
JAGGED PEAK ENERGY
 UTL L.J. Beldin 1211-17-2H
 SHL: 500' FNL, 500' FWL (Sec. 13)
 PP/FTP: 200' FSL, 500' FWL (Sec. 12)
 LTP/BHL: 2443' FSL, 500' FWL (Sec. 45)
 UTL L.J. Beldin 1211-17 Lease
 1281.40 Acres (Called) out of
 Sections 9, 11 & 12, Block 17 &
 Section 45, Block 21
 University Lands Survey
 Ward & Winkler Counties, Texas
 Scale: 1" = 2000'