

Permit Status: **Approved**

*The RRC has not approved this application.
Duplication or distribution of information is
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**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

Form W-1H 07/2004
Supplemental Horizontal Well Information

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

*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 # **774956**

Approved Date: **Dec 12, 2013**

1. RRC Operator No. 252002	2. Operator's Name (exactly as shown on form P-5. Organization Report) ENERGEN RESOURCES CORPORATION	3. Lease Name UNIVERSITY 16-17	4. Well No. 1H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)			
6. Section 17	7. Block 17	8. Survey UL	9. Abstract 56
		10. County of BHL WARD	
11. Terminus Lease Line Perpendiculars 200 ft. from the SE line. and 467 ft. from the SW line			
12. Terminus Survey Line Perpendiculars 200 ft. from the SE line. and 467 ft. from the SW line			
13. Penetration Point Lease Line Perpendiculars 440 ft. from the SE line. and 467 ft. from the SW line			

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date December 11, 2013

GAU File No.: SC- 8012

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

API Number 47500000

Attention: JENIFER SORLEY

RRC Lease No. 000000

SC_252002_47500000_000000_8012.pdf

**ENERGEN RESOURCES CORP
3300 N A ST
BLDG 4 STE 100
MIDLAND TX 79705**

--Measured--

440 ft FSEL

467 ft FSWL

MRL:SECTION

P-5# 252002

Digital Map Location:	
X-coord/Long	<u>103.18076</u>
Y-coord/Lat	<u>31.57898</u>
Datum	<u>83</u> Zone

County WARD

Lease & Well No. UNIVERSITY 16-17 #1H&ALL

Purpose ND

Location SUR-UL, BLK-17, SEC-16, -- [TD=13000], [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 a depth of 1000 feet must be protected.

This recommendation is adequate for wells drilled on this lease in section 16.

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, gauc@rrc.state.tx.us, or by mail.

Sincerely,


 Digitally signed by Jack Oswalt
 DN: c=US, st=TEXAS, l=Austin,
 o=Railroad Commission of Texas,
 ou=Groundwater Advisory Unit, cn=Jack
 Oswalt, email=jack.oswalt@rrc.state.tx.us
 Date: 2013.12.11 10:18:22 -06'00'

Jack M. Oswalt, P.G.

GEOLOGIST SEAL

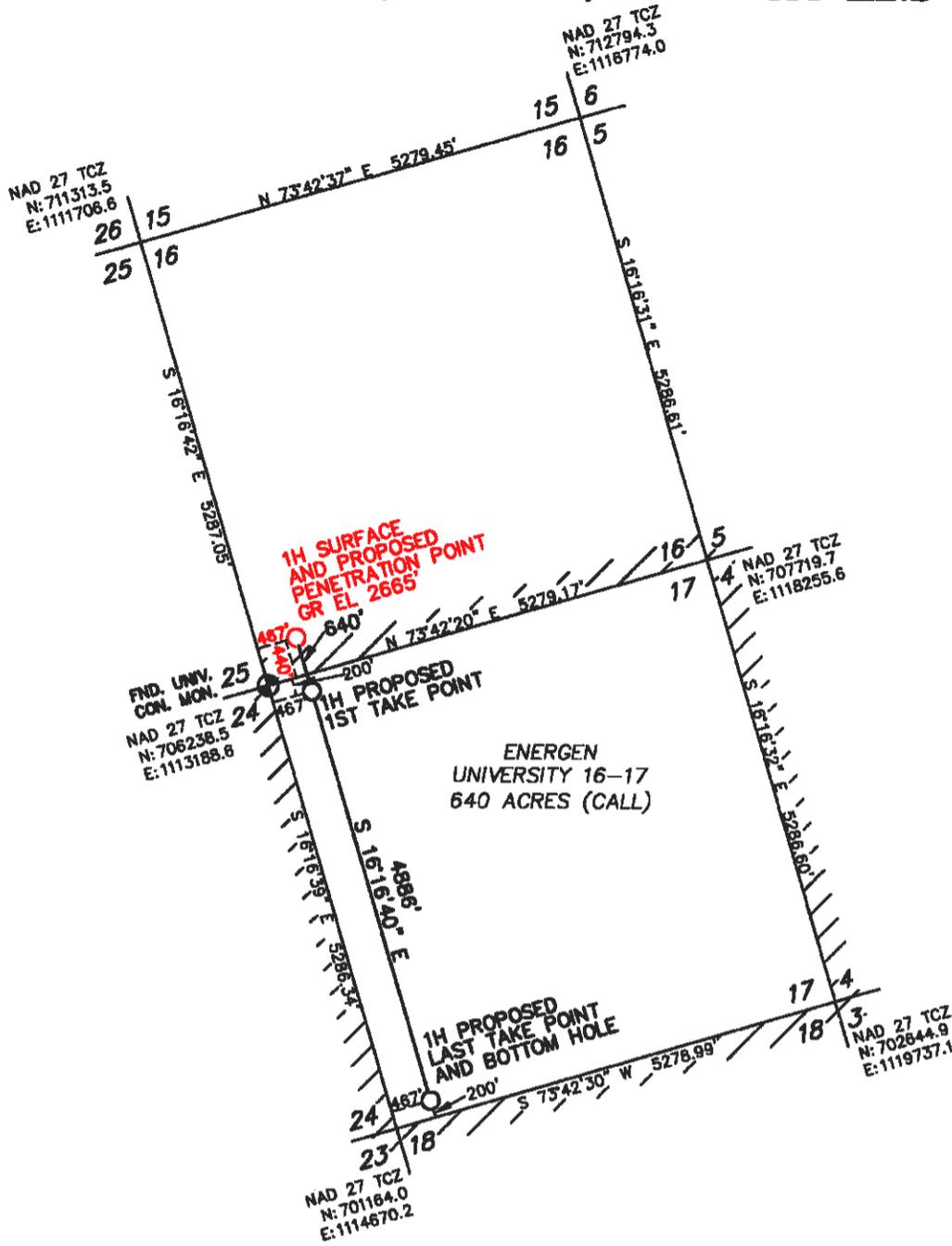


Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 12/11/2013
Note: Alteration of this electronic document will invalidate the digital signature.

A-U55 & A-U56

SECTIONS 16 & 17, BLOCK 17, UNIVERSITY LAND SURVEY



NAD 83, TEXAS CENTRAL ZONE		NAD 27, TEXAS CENTRAL ZONE	
S/L: N=10549367.4', E=1409979.2'	LAT=31.5789857 N, LONG=103.1807683 W	S/L: N=706791.8', E=1113513.5'	LAT=31.5788535 N, LONG=103.1803266 W
1ST: N=10548753.1', E=1410158.6'	LAT=31.5773100 N, LONG=103.1801420 W	1ST: N=706177.5', E=1113692.8'	LAT=31.5771778 N, LONG=103.1797004 W
B/H: N=10544062.6', E=1411528.2'	LAT=31.5645156 N, LONG=103.1753605 W	B/H: N=701487.0', E=1115062.4'	LAT=31.5643832 N, LONG=103.1749192 W

APPROXIMATELY 4.4 MILES NW OF PYOTE, TEXAS

- NOTES:
- COORDINATES AND BEARINGS ARE BASED ON LAMBERT CONICAL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM NAD 83, CORRS 98, TEXAS CENTRAL ZONE WITH A CONVERGENCE ANGLE OF $-01.48967462''$ AND DISTANCES ARE OF GRID VALUE WITH A CENTRAL COMBINED SCALE FACTOR OF 0.999802548.
 - THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF IMPROVEMENTS AND/OR EASEMENTS WERE BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAVE BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.
 - SEE DOCUMENTS AND ELECTRONIC DATA FILED IN THE OFFICE OF WPG INC FOR COMPLETE RECONSTRUCTION OF THESE SECTIONS OR BLOCKS.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR THE PRIVATE USE OF THE PARTY NAMED IN THE "REFERENCE PORTION" OF THE TITLE BLOCK AND DOES NOT CONSTITUTE A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE "PROFESSIONAL LAND SURVEYING PRACTICES ACT."

[Signature]
 W.D. Watson, Jr. TEXAS R.P.L.S. No. 1989
 FILE: T:\WARD\BLOCK 17.dwg

12/3/13
 DATE



- ☼ GAS WELL
- △ WATER INJECTION WELL
- OIL WELL
- LOCATED WELL
- DRY HOLE
- WATER WELL
- SHUT IN WELL



Watson Professional Group Inc

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CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS

PERMIT PLAT
ENERGEN RESOURCES CORPORATION
 UNIVERSITY 16-17#1H
 S/L AND PROPOSED P/P: 440' FSEL & 467' FSWL
 SECTION 16, BLOCK 17, UNIVERSITY LAND SURVEY
 PROPOSED 1ST T/P: 200' FSWL & 467' FSWL
 PROPOSED LAST T/P AND B/H: 200' FSEL & 467' FSWL
 SECTION 17, BLOCK 17, UNIVERSITY LAND SURVEY
 WARD COUNTY, TEXAS

DATE: NOVEMBER 26, 2013
 JOB NO.: 13-4085-00 FIELD BOOK 731/B
 DATE SURVEYED: 11/13/13
 DRAFT NGH REV. 0