

API No. <u>42-475-36593</u> Drilling Permit # <u>774956</u> SWR Exception Case/Docket No. _____		RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <i>This facsimile W-1 was generated electronically from data submitted to the RRC.</i> <i>A certification of the automated data is available in the RRC's Austin office.</i>			FORM W-1 07/2004 Permit Status: Approved	
1. RRC Operator No. 252002		2. Operator's Name (as shown on form P-5, Organization Report) ENERGEN RESOURCES CORPORATION		3. Operator Address (include street, city, state, zip):		
4. Lease Name UNIVERSITY 16-17		5. Well No. 1H				
GENERAL INFORMATION						
6. Purpose of filing (mark ALL appropriate boxes): <input checked="" type="checkbox"/> New Drill <input type="checkbox"/> Recompletion <input type="checkbox"/> Reclass <input type="checkbox"/> Field Transfer <input type="checkbox"/> Re-Enter <input type="checkbox"/> Amended <input type="checkbox"/> Amended as Drilled (BHL) (Also File Form W-1D)						
7. Wellbore Profile (mark ALL appropriate boxes): <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Horizontal (Also File Form W-1H) <input type="checkbox"/> Directional (Also File Form W-1D) <input type="checkbox"/> Sidetrack						
8. Total Depth 13000		9. Do you have the right to develop the minerals under any right-of-way? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10. Is this well subject to Statewide Rule 36 (hydrogen sulfide area)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
SURFACE LOCATION AND ACREAGE INFORMATION						
11. RRC District No. 08		12. County WARD		13. Surface Location <input checked="" type="checkbox"/> Land <input type="checkbox"/> Bay/Estuary <input type="checkbox"/> Inland Waterway <input type="checkbox"/> Offshore		
14. This well is to be located <u>4.4</u> miles in a <u>NW</u> direction from <u>PYOTE</u> which is the nearest town in the county of the well site.						
15. Section 16	16. Block 17	17. Survey UL	18. Abstract No. A-U55	19. Distance to nearest lease line: 200 ft.	20. Number of contiguous acres in lease, pooled unit, or unitized tract: 640	
21. Lease Perpendiculars: <u>440</u> ft from the <u>SE</u> line and <u>467</u> ft from the <u>SW</u> line.		22. Survey Perpendiculars: <u>440</u> ft from the <u>SE</u> line and <u>467</u> ft from the <u>SW</u> line.				
23. Is this a pooled unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		24. Unitization Docket No:		25. Are you applying for Substandard Acreage Field? <input type="checkbox"/> Yes (attach Form W-1A) <input checked="" type="checkbox"/> No		
FIELD INFORMATION List all fields of anticipated completion including Wildcat. List one zone per line.						
26. RRC District No.	27. Field No.	28. Field Name (exactly as shown in RRC records)	29. Well Type	30. Completion Depth	31. Distance to Nearest Well in this Reservoir	
08	71052900	PHANTOM (WOLFCAMP)	Oil or Gas Well	13000	0.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [FILER Dec 4, 2013 10:05 AM]: Have a wonderful day!; [RRC STAFF Dec 11, 2013 12:32 PM]: There have been problems identified with this permit (see problem letter attachment). Notification sent.; [RRC STAFF Dec 12, 2013 9:28 AM]: Problems identified with this permit are resolved.			Certification: I certify that information stated in this application is true and complete, to the best of my knowledge. <div style="display: flex; justify-content: space-between;"> <div> Jenifer Sorley, Regulatory Analyst Name of filer (432)8181732 Phone </div> <div> Dec 04, 2013 Date submitted midlandrrc@energen.com E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only			Data Validation Time Stamp: Dec 12, 2013 9:30 AM(Current Version)			

Permit Status: **Approved**

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

**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
Laterals 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			

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 774956	DATE PERMIT ISSUED OR AMENDED Dec 12, 2013	DISTRICT * 08
API NUMBER 42-475-36593	FORM W-1 RECEIVED Dec 04, 2013	COUNTY WARD
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 640
OPERATOR ENERGEN RESOURCES CORPORATION		252002 NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581
LEASE NAME UNIVERSITY 16-17		WELL NUMBER 1H
LOCATION 4.4 miles NW direction from PYOTE		TOTAL DEPTH 13000
Section, Block and/or Survey SECTION ◀ 16 BLOCK ◀ 17 ABSTRACT ◀ U55 SURVEY ◀ UL		
DISTANCE TO SURVEY LINES 440 ft. SE 467 ft. SW		DISTANCE TO NEAREST LEASE LINE 200 ft.
DISTANCE TO LEASE LINES 440 ft. SE 467 ft. SW		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST LEASE
PHANTOM (WOLFCAMP)	640.00	13,000
UNIVERSITY 16-17	200	0

WELLBORE PROFILE(s) FOR FIELD: Horizontal		

RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 440.0 F SE L 467.0 F SW L Terminus Location BH County: WARD Section: 17 Block: 17 Abstract: 56 Survey: UL Lease Lines: 200.0 F SE L 467.0 F SW L Survey Lines: 200.0 F SE L 467.0 F SW L		
<p align="center">THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS</p> <p>This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.</p>		

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

Digital Map Location:

X-coord/Long 103.18076

Y-coord/Lat 31.57898

Datum 83 Zone

P-5# 252002

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:

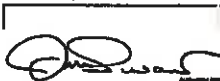
The interval from the land surface to a depth of 1000 feet must be protected.

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,

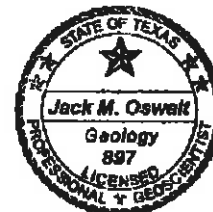


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin,
o=Railroad Commission of Texas,
ou=Groundwater Advisory Unit, cn=Jack
Oswalt, email=jack.oswalt@rrc.state.tx.us
Date: 2013.12.11 10:18:22 -06'00'

Jack M. Oswalt, P.G.

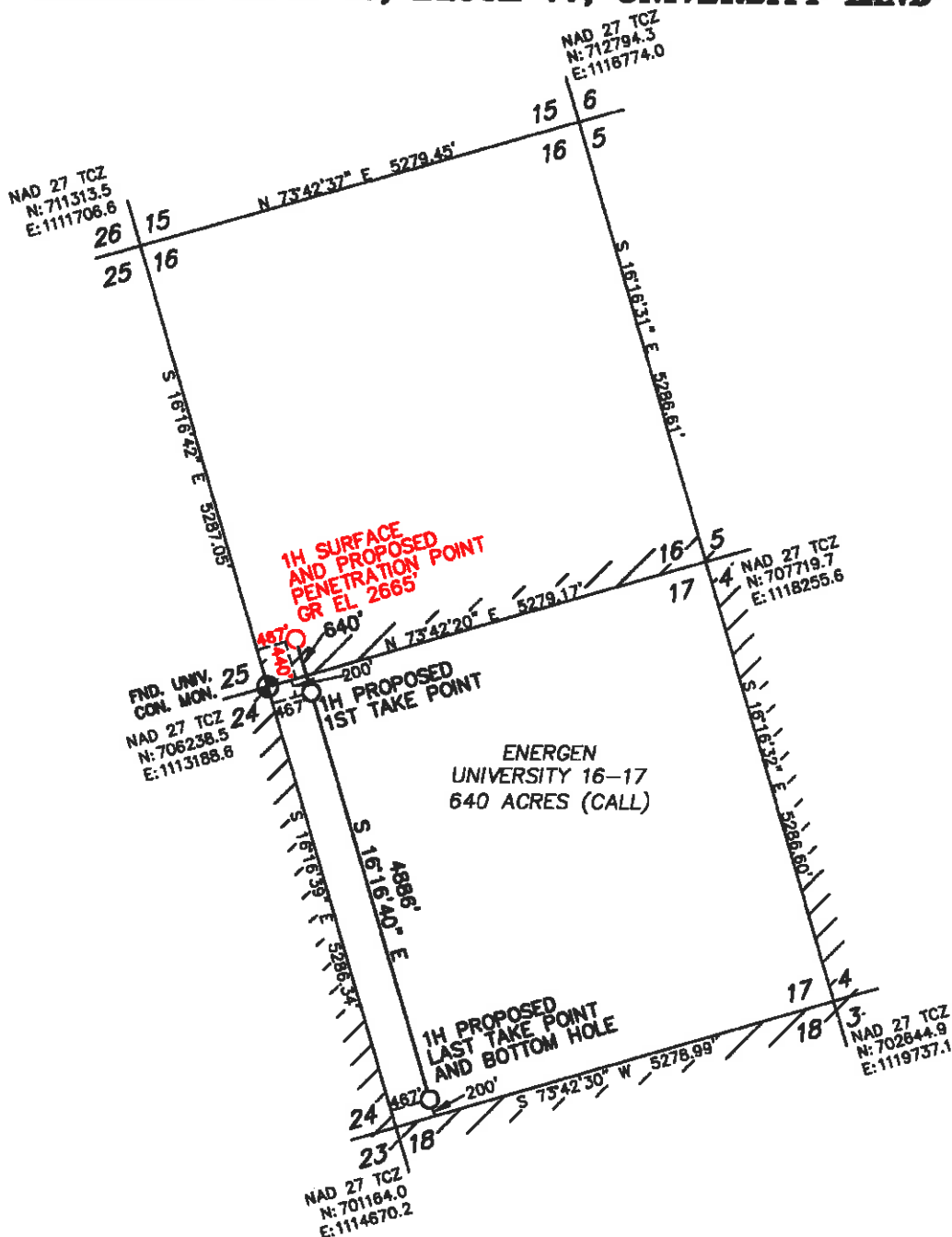
Geologist, Groundwater Advisory Unit
Oil & Gas Division

GEOLOGIST SEAL



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.

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 SURVEY AND DOES NOT CONSTITUTE A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE "PROFESSIONAL LAND SURVEYING PRACTICES ACT."

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

2000 0 2000 4000 FEET

Watson
Professional
Group Inc



P.O. DRAWER 11186
MIDLAND, TEXAS 79702
(432) 520-9200
FAX (432) 520-9212
wdwatson@wpg-usa.com

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

DATE SURVEYED: 11/13/13

JOB NO.: 13-4085-00 FIELD BOOK 731/8

DRAFT NGH REV. 0