

API No. <u>42-495-33601</u> Drilling Permit # <u>792629</u> SWR Exception Case/Docket No. _____		RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER <small>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.</small>			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): 3300 NORTH A ST BLDG 4 STE 100 MIDLAND, TX 79705-0000		
4. Lease Name UNIVERSITY 35-20		5. Well No. 2H				
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 12000		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 WINKLER		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>14.4</u> miles in a <u>NW</u> direction from <u>PYOTE, TEXAS</u> which is the nearest town in the county of the well site.						
15. Section 35	16. Block 20	17. Survey UL	18. Abstract No. A-U30	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>10</u> ft from the <u>NW</u> line and <u>527</u> ft from the <u>NE</u> line. 22. Survey Perpendiculars: <u>10</u> ft from the <u>NW</u> line and <u>527</u> ft from the <u>NE</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	12000	0.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)						
Remarks [RRC STAFF Aug 5, 2014 9:01 AM]: As per Delia Skinner: This well's surface location was moved to avoid a pipeline, please see revised plat. S/L & Proposed P/P: 10 ₂ FNWL & 527 ₂ FNEL			Certificate: 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> <u>Delia Skinner, Regulatory Analyst</u> Name of filer <u>(432)6843692</u> Phone </div> <div> <u>Jul 25, 2014</u> Date submitted <u>midlandrrc@energen.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only Data Validation Time Stamp: Aug 25, 2014 3:47 PM(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
Supplemental Horizontal Well Information

07/2004

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 #	792629
Approved Date:	Aug 21, 2014

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 35-20	4. Well No. 2H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 PHANTOM (WOLFCAMP) (Field # 71052900, RRC District 08)			
6. Section 35	7. Block 20	8. Survey UL	9. Abstract 30
			10. County of BHL WINKLER
11. Terminus Lease Line Perpendiculars 200 ft. from the SE line. and 467 ft. from the NE line			
12. Terminus Survey Line Perpendiculars 200 ft. from the SE line. and 467 ft. from the NE line			
13. Penetration Point Lease Line Perpendiculars 10 ft. from the NW line. and 527 ft. from the NE 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 <div style="text-align: right;">792629</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Aug 21, 2014</div>	DISTRICT <div style="text-align: right;">* 08</div>	
API NUMBER <div style="text-align: right;">42-495-33601</div>	FORM W-1 RECEIVED <div style="text-align: center;">Jul 25, 2014</div>	COUNTY <div style="text-align: right;">WINKLER</div>	
TYPE OF OPERATION <div style="text-align: right;">NEW DRILL</div>	WELLBORE PROFILE(S) <div style="text-align: right;">Horizontal</div>	ACRES <div style="text-align: right;">640</div>	
OPERATOR <div style="text-align: right;">252002</div> ENERGEN RESOURCES CORPORATION 3300 NORTH A ST BLDG 4 STE 100 MIDLAND, TX 79705-0000		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: <div style="text-align: right;">(432) 684-5581</div>	
LEASE NAME <div style="text-align: right;">UNIVERSITY 35-20</div>		WELL NUMBER <div style="text-align: right;">2H</div>	
LOCATION <div style="text-align: right;">14.4 miles NW direction from PYOTE, TEXAS</div>		TOTAL DEPTH <div style="text-align: right;">12000</div>	
Section, Block and/or Survey <div style="display: flex; justify-content: space-between;"> <div>SECTION ◀ 35</div> <div>BLOCK ◀ 20</div> <div>ABSTRACT ◀ U30</div> </div> <div style="display: flex; justify-content: space-between;"> <div>SURVEY ◀ UL</div> </div>			
DISTANCE TO SURVEY LINES <div style="text-align: right;">10 ft. NW 527 ft. NE</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: right;">200 ft.</div>	
DISTANCE TO LEASE LINES <div style="text-align: right;">10 ft. NW 527 ft. NE</div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: right;">See FIELD(s) Below</div>	
FIELD(s) and LIMITATIONS: <div style="text-align: center; margin-top: 10px;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div>			
FIELD NAME LEASE NAME		ACRES NEAREST LEASE	DEPTH NEAREST WE
<div style="border-top: 1px dashed black; padding-top: 5px;"> PHANTOM (WOLFCAMP) UNIVERSITY 35-20 </div>		<div style="border-top: 1px dashed black; padding-top: 5px;"> <div style="display: flex; justify-content: space-between;"> 640.00 12,000 </div> <div style="display: flex; justify-content: space-between;"> 200 0 </div> </div>	<div style="border-top: 1px dashed black; padding-top: 5px;"> <div style="display: flex; justify-content: space-between;"> 2H 08 </div> </div>
<div style="border-top: 1px dashed black; padding-top: 5px;"> WELLBORE PROFILE(s) FOR FIELD: Horizontal </div>			
RESTRICTIONS: <div style="margin-left: 20px;"> Lateral: TH1 Penetration Point Location Lease Lines: 10.0 F NW L 527.0 F NE L Terminus Location BH County: WINKLER Section: 35 Block: 20 Abstract: 30 Survey: UL Lease Lines: 200.0 F SE L 467.0 F NE L Survey Lines: 200.0 F SE L 467.0 F NE L </div>			
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS			
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.			

**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 <div style="text-align: right;">792629</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Aug 21, 2014</div>	DISTRICT <div style="text-align: center;">* 08</div>
API NUMBER <div style="text-align: right;">42-495-33601</div>	FORM W-1 RECEIVED <div style="text-align: center;">Jul 25, 2014</div>	COUNTY <div style="text-align: center;">WINKLER</div>
TYPE OF OPERATION <div style="text-align: center;">NEW DRILL</div>	WELLBORE PROFILE(S) <div style="text-align: center;">Horizontal</div>	ACRES <div style="text-align: center;">640</div>
OPERATOR <div style="display: flex; justify-content: space-between;"> <div> ENERGEN RESOURCES CORPORATION 3300 NORTH A ST BLDG 4 STE 100 MIDLAND, TX 79705-0000 </div> <div style="text-align: right;">252002</div> </div>		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: <div style="text-align: center;">(432) 684-5581</div>
LEASE NAME <div style="text-align: center;">UNIVERSITY 35-20</div>		WELL NUMBER <div style="text-align: center;">2H</div>
LOCATION <div style="text-align: center;">14.4 miles NW direction from PYOTE, TEXAS</div>		TOTAL DEPTH <div style="text-align: center;">12000</div>
Section, Block and/or Survey <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: left;"> SECTION ◀ 35 SURVEY ◀ UL </div> <div style="text-align: center;"> BLOCK ◀ 20 </div> <div style="text-align: right;"> ABSTRACT ◀ U30 </div> </div>		
DISTANCE TO SURVEY LINES <div style="text-align: center;">10 ft. NW 527 ft. NE</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">200 ft.</div>
DISTANCE TO LEASE LINES <div style="text-align: center;">10 ft. NW 527 ft. NE</div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: center;">See FIELD(s) Below</div>
FIELD(s) and LIMITATIONS: <div style="text-align: center; margin-top: 10px;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div> FIELD NAME LEASE NAME </div> <div> ACRES NEAREST LEASE </div> <div> DEPTH NEAREST WE </div> <div> WELL # NEAREST WE </div> <div> DIST </div> </div> <p style="margin-top: 20px;">This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.</p>		

RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION
SWR #13 Formation Data

WINKLER (495) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	725	725	possible flow; possible usable quality water	1	12/17/2013
COLBY-QUEEN	2,900	3,200		2	12/17/2013
YATES	2,280	3,200		3	12/17/2013
QUEEN-SEVEN RIVERS	2,700	3,400		4	12/17/2013
SAN ANDRES	3,600	4,400	high flows, H2S, corrosive	5	12/17/2013
HOLT	4,500	4,800		6	12/17/2013
DELAWARE	4,300	5,000		7	12/17/2013
GLORIETA	4,900	5,600		8	12/17/2013
CLEARFORK	4,750	6,200		9	12/17/2013
WICHITA ALBANY	6,600	6,850		10	12/17/2013
BRUSHY CANYON	7,300	7,300		11	12/17/2013
CHERRY CANYON	6,000	7,800		12	12/17/2013
CANYON	8,400	8,400		13	12/17/2013
BONE SPRINGS	9,000	9,800		14	12/17/2013
MONTOYA	10,300	10,300		15	12/17/2013
WADDELL	11,000	11,000		16	12/17/2013
WOLFCAMP	7,600	12,400		17	12/17/2013
ATOKA	12,900	12,900		18	12/17/2013
STRAWN	8,100	14,800		19	12/17/2013
PENNSYLVANIAN	8,000	15,500		20	12/17/2013
MISSISSIPPIAN	10,200	17,300		21	12/17/2013
DEVONIAN	7,900	17,800		22	12/17/2013
SILURIAN	8,500	18,000		23	12/17/2013
FUSSELMAN	9,700	18,800		24	12/17/2013
ELLENBURGER	9,500	21,400		25	12/17/2013

This is a dynamic table that will be updated continuously. It is the operators responsibility to make sure that at time of spudding the well the most current table is being referenced.

Groundwater
Advisory Unit

GROUNDWATER PROTECTION DETERMINATION

Date **November 28, 2011**

GAU File No.: SC- **5842**

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

API Number **49500000**

Attention: **TRACIE J CHERRY**

RRC Lease No. **000000**

SC_252002_49500000_000000_5842.pdf

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

P-5# 252002

--Measured--

467 ft FNWL

567 ft FSWL

MRL:SECTION

Digital Map Location:

X-coord/Long **103.29040**

Y-coord/Lat **31.68339**

Datum **27** Zone

County **WINKLER**

Lease & Well No. **UNIVERSITY 35-20 #1**

Purpose **ND**

Location **SUR-UL,BLK-20,SEC-35,--[TD=11500],[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 250 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).**

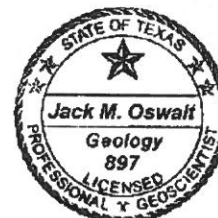
If you have any questions, please contact us at 512-463-2741, gau@rrc.state.tx.us, or by mail.

Sincerely,


Digitally signed by Jack Oswalt
DN: c=US, st=TEXAS, l=Austin,
o=Railroad Commission of Texas,
cn=Jack Oswalt,
email=jack.oswalt@rrc.state.tx.us
Date: 2011.11.28 15:41:59 -06'00'

Jack M. Oswalt, P.G.

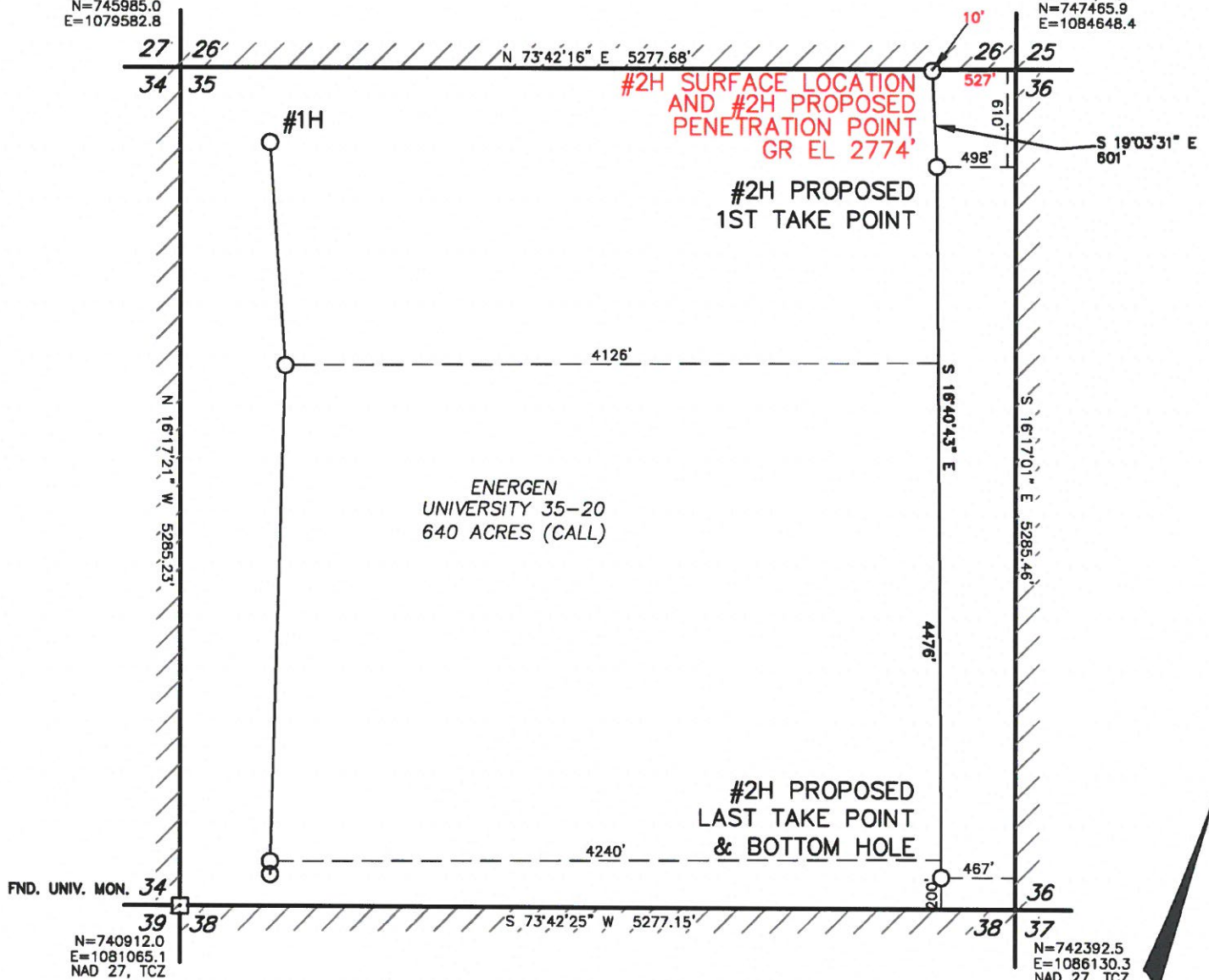
GEOLOGIST SEAL



Geologist, Groundwater Advisory Unit
Oil & Gas Division

The seal appearing on this document was authorized by Jack M. Oswalt on 11/28/2011.
Note: Alteration of this electronic document will invalidate the digital signature.

A-U30

SECTION 35, BLOCK 20, UNIVERSITY LAND SURVEYNAD 27, TCZ
N=745985.0
E=1079582.8NAD 27, TCZ
N=747465.9
E=1084648.4**NAD 83, TEXAS CENTRAL ZONE****NAD 27, TEXAS CENTRAL ZONE**

S/L: N=10589884.7', E=1380610.3' LAT=31.6882309 N, LONG=103.2784912 W	S/L: N=747308.4', E=1084145.4' LAT=31.6881011 N, LONG=103.2780438 W
1ST/P: N=10589316.9', E=1380806.4' LAT=31.6866849 N, LONG=103.2778125 W	1ST/P: N=746740.7', E=1084341.6' LAT=31.6865550 N, LONG=103.2773652 W
L/P: N=10585029.6', E=1382090.9' LAT=31.6749965 N, LONG=103.2733201 W	L/P: N=742453.4', E=1085626.0' LAT=31.6748664 N, LONG=103.2728732 W

APPROXIMATELY 14.4 MILES NW OF PYOTE, TEXAS**NOTES:**

- COORDINATES AND BEARINGS SHOWN HEREON ARE NAD 83, LAMBERT GRID COORDINATES AND CONFORM TO THE TEXAS COORDINATE SYSTEM "TEXAS CENTRAL ZONE," WITH REFERENCE TO USGS TRI-STATION "ANGLE" WITH A CENTRAL COMBINED SCALE FACTOR OF 0.99980780. THE POSITIONAL TOLERANCE OF THIS SURVEY EXCEEDS THE REQUIREMENTS FOR A RURAL SURVEY.
- 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."



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

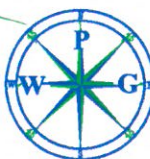
W.D. Watson, Jr. TEXAS R.P.L.S. No. 1989
FILE: T:WINKLER\BLOCK 20.dwg

8/4/14

DATE

1000 0 1000 2000 FEET

**Watson
Professional
Group Inc**



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

CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS

PERMIT PLAT
ENERGEN RESOURCES CORPORATION
UNIVERSITY 35-20 #2H

S/L & PROPOSED P/P: 10' FNWL & 527' FNEL
PROPOSED 1ST T/P: 610' FNWL & 498' FNEL
PROPOSED LAST T/P & B/H: 200' FSEL & 467' FNEL
SECTION 35, BLOCK 20, UNIVERSITY LAND SURVEY
WINKLER COUNTY, TEXAS

DATE: AUGUST 4, 2014

DATE SURVEYED: 8/1/14

JOB NO.: 14-1246-00 FIELD BOOK 763/07

DRAFT TA

REV. 1