

API No. <u>42-105-41480</u> Drilling Permit # <u>739788</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. 660146		2. Operator's Name (as shown on form P-5, Organization Report) PETROHAWK OPERATING COMPANY		3. Operator Address (include street, city, state, zip):			
4. Lease Name UNIVERSITY 46		5. Well No. 1304H					
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 7750		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. 7C		12. County CROCKETT		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>18</u> miles in a <u>NW</u> direction from <u>Ozona</u> which is the nearest town in the county of the well site.							
15. Section 13		16. Block 46		17. Survey UL		18. Abstract No. A-	
				19. Distance to nearest lease line: 100 ft.		20. Number of contiguous acres in lease, pooled unit, or unitized tract: 14655.3	
21. Lease Perpendiculars: <u>11831</u> ft from the <u>W</u> line and <u>18362</u> ft from the <u>S</u> line. 22. Survey Perpendiculars: <u>1000</u> ft from the <u>W</u> line and <u>2676</u> ft from the <u>S</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	
7C	53613750	LIN (WOLFCAMP)		Oil or Gas Well	7750	660.00	
BOTTOMHOLE LOCATION INFORMATION is required for DIRECTIONAL, HORIZONTAL, AND AMENDED AS DRILLED PERMIT APPLICATIONS (see W-1H attachment)							
Remarks [FILER May 2, 2012 2:17 PM]: EST MD 15000'				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>Carey Holtzendorf</u> Name of filer </div> <div> <u>May 02, 2012</u> Date submitted </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <u>(832)3251081</u> Phone </div> <div> <u>choltzendorf@petrohawk.com</u> E-mail Address (OPTIONAL) </div> </div>			
RRC Use Only							
Data Validation Time Stamp: May 15, 2012 3:22 PM(Current Version)							

Permit Status:	Approved
<i>The RRC has not approved this application. Duplication or distribution of information is at the user's own risk.</i>	

**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

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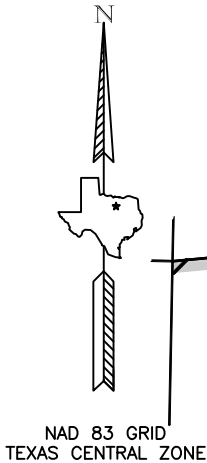
Permit #	739788
Approved Date:	May 15, 2012

1. RRC Operator No. 660146	2. Operator's Name (exactly as shown on form P-5, Organization Report) PETROHAWK OPERATING COMPANY	3. Lease Name UNIVERSITY 46	4. Well No. 1304H
Lateral Drainhole Location Information			
5. Field as shown on Form W-1 LIN (WOLFCAMP) (Field # 53613750, RRC District 7C)			
6. Section 8	7. Block 46	8. Survey UL	9. Abstract
		10. County of BHL CROCKETT	
11. Terminus Lease Line Perpendiculars 100 ft. from the N line. and 1957 ft. from the E line			
12. Terminus Survey Line Perpendiculars 50 ft. from the N line. and 990 ft. from the W line			
13. Penetration Point Lease Line Perpendiculars 11820 ft. from the W line. and 18880 ft. from the S 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 739788	DATE PERMIT ISSUED OR AMENDED May 15, 2012	DISTRICT * 7C	
API NUMBER 42-105-41480	FORM W-1 RECEIVED May 02, 2012	COUNTY CROCKETT	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 14655.3	
OPERATOR PETROHAWK OPERATING COMPANY		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: (325) 657-7450	
LEASE NAME UNIVERSITY 46		WELL NUMBER 1304H	
LOCATION 18 miles NW direction from OZONA		TOTAL DEPTH 7750	
Section, Block and/or Survey SECTION 13 BLOCK 46 ABSTRACT SURVEY UL			
DISTANCE TO SURVEY LINES 1000 ft. W 2676 ft. S		DISTANCE TO NEAREST LEASE LINE 100 ft.	
DISTANCE TO LEASE LINES 11831 ft. W 18362 ft. S		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
----- LIN (WOLFCAMP) UNIVERSITY 46 -----		14655.30 100	7,750 660
----- WELLBORE PROFILE(s) FOR FIELD: Horizontal -----			
RESTRICTIONS: Lateral: TH1 Penetration Point Location Lease Lines: 11820.0 F W L 18880.0 F S L Terminus Location BH County: CROCKETT Section: 8 Block: 46 Abstract: Survey: UL Lease Lines: 100.0 F N L 1957.0 F E L Survey Lines: 50.0 F N L 990.0 F W 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>			



NW CORNER
NAD 83
LAT. = 30.98246812° N
LONG. = 101.35481151° W
NAD 27
LAT. = 30.98230743° N
LONG. = 101.35441499° W

BOTTOM HOLE LOCATION
NAD 83
Y = 10,322,564.90
X = 1,977,494.77
LAT. = 30.98261097° N
LONG. = 101.35165020° W
NAD 27
Y = 479,988.37
X = 1,681,028.52
LAT. = 30.98245025° N
LONG. = 101.35125373° W

NE CORNER
NAD 83
LAT. = 30.98413961° N
LONG. = 101.33599640° W
NAD 27
LAT. = 30.98397877° N
LONG. = 101.33560016° W

I HEREBY STATE THAT THIS PLAT
SHOWS THE SUBJECT LOCATION BASED
ON INFORMATION PROVIDED BY
THE CLIENT.



Robert Glen Maloy

ROBERT GLEN MALOY
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6028

GENERAL NOTES

- COORDINATES SHOWN ARE BASED ON TEXAS COORDINATE SYSTEM OF NAD 1983, TEXAS CENTRAL ZONE (TEXAS WEST HARN) AND ARE BASED ON THE MONUMENT "SCHNEEMAN" (Y = 10,333,230, X = 1,957,295)
- VERTICAL DATUM IS NAVD 88
- LATITUDE AND LONGITUDE ARE NAD 83 GEOGRAPHIC
- AREA, DISTANCES, AND COORDINATES ARE "GRID"
- UNITS ARE UNITED STATES SURVEY FOOT.
- COMBINED SCALE FACTOR = 0.999763023.
- ALL LEASE AND TRACT INFORMATION SHOWN HEREON IS DONE SO BY LIMITED DEED RECORD INFORMATION ONLY. ALL ACREAGES SHOWN ARE BY DEED AND LEASE CALL, EXCEPT WHERE NOTED. THIS IS NOT IN ANY WAY A "BOUNDARY SURVEY"
- ELEVATIONS SHOWN IN THE LINE TABLE REPRESENT THE ELEVATION AT THE END OF THAT LINE SEGMENT IN THE DIRECTION FROM THE PREVIOUS POINT.

LINE	BEARING	DISTANCE
L1	N 00°01'26" E	517.08'
L2	N 01°08'05" E	7517.83'
L3	N 01°08'05" E	50.32'

PETROHAWK OPERATING CO.
SURFACE HOLE LOCATION
UNIVERSITY 46 #1304H
NAD 83
Y = 10,314,481.15
X = 1,977,344.68
LAT. = 30.96038168° N
LONG. = 101.35189296° W
NAD 27
Y = 471,904.67
X = 1,680,878.46
LAT. = 30.96022032° N
LONG. = 101.35149647° W
ELEV. = 2,565.53'

UNIVERSITY 46"
14,655.3 CALLED ACRES

UPP/PP
Y=10,314,998.23
X=1,977,344.90

11820' TO
UNIT LINE
11831' TO
UNIT LINE

SW CORNER
NAD 83
LAT. = 30.95274586° N
LONG. = 101.35517783° W
NAD 27
LAT. = 30.95258432° N
LONG. = 101.35478129° W

SECTION 13,
BLOCK 46
UNIVERSITY LANDS

SE CORNER
NAD 83
LAT. = 30.95421901° N
LONG. = 101.33576505° W
NAD 27
LAT. = 30.95405730° N
LONG. = 101.33536878° W



PETROHAWK Operating Company
6100 S. Yale Ave.
Suite 500
Tulsa, Oklahoma 74136

REV.	DATE	BY	REVISIONS MADE
1	03/23/12	GG	MAKE PRELIMINARY
2	04/10/12	BB	NAME CHANGE
3	04/20/12	BB	CHANGED SHL
4	04/27/12	GG	CHANGED LEASE NAME



PLAT OF:

A PROPOSED ACCESS ROAD AND POND SITE FOR:

PETROHAWK OPERATING CO.

UNIVERSITY 46 #1304H

SITUATED IN SECTION 13 AND SECTION 8, BOTH
OF BLOCK 46, OUT OF THE UNIVERSITY LANDS,
LOCATED APPROX. 18 MILES NORTHWEST OF
OZONA, CROCKETT COUNTY, TEXAS

Completion Date: 3-23-12 File Name: 1203114

Scale: 1" = 2000' Surveyed by: RR/WB

Drawn by: GG Checked by: RM

FRONTIER

SURVEYING COMPANY
3108 W. 6th STREET, FORT WORTH, TEXAS 76107
PH: (817) 560 - 4500 FAX: (817) 289 - 3530
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PLOT DATE: 04-30-2012 3:35 P.M.

1000 0 1000 2000 3000 4000 5000 6000

SCALE: 1" = 2000 FEET