



**RAILROAD COMMISSION OF TEXAS**

**Form W-2**

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Approved  
Date: 05/19/2017  
Tracking No.: 172836

**OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG**

**OPERATOR INFORMATION**

**Operator Name:** ANADARKO E&P ONSHORE LLC      **Operator No.:** 020528  
**Operator Address:** ATTN FRANK A. DAVIS PO BOX 1330 HOUSTON, TX 77251-1330

**WELL INFORMATION**

**API No.:** 42-301-31185      **County:** LOVING  
**Well No.:** 1      **RRC District No.:** 08  
**Lease Name:** UNIVERSITY 19-5      **Field Name:** SANDBAR (BONE SPRING)  
**RRC Lease No.:** 48459      **Field No.:** 80544500  
**Location:** Section: 5, Block: 19, Survey: UL, Abstract: U5  
  
**Latitude:** 31      **Longitude:** -103  
**This well is located**      20      **miles in a**      WEST  
**direction from**      KERMIT,  
**which is the nearest town in the county.**

**FILING INFORMATION**

**Purpose of filing:** Well Record Only  
**Type of completion:** Other/Recompletion  
**Well Type:** Producing      **Completion or Recompletion Date:** 10/25/2010  
  

<u>Type of Permit</u>	<u>Date</u>	<u>Permit No.</u>
Permit to Drill, Plug Back, or Deepen	04/19/2017	825147
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

**COMPLETION INFORMATION**

**Spud date:** 09/13/2010      **Date of first production after rig released:** 10/25/2010  
**Date plug back, deepening, recompletion, or drilling operation commenced:** 09/13/2010      **Date plug back, deepening, recompletion, or drilling operation ended:** 10/25/2010  
**Number of producing wells on this lease in this field (reservoir) including this well:** 2      **Distance to nearest well in lease & reservoir (ft.):** 3475.0  
**Total number of acres in lease:** 640.00      **Elevation (ft.):** 2780      GL  
**Total depth TVD (ft.):** 17900      **Total depth MD (ft.):**  
**Plug back depth TVD (ft.):** 15160      **Plug back depth MD (ft.):**  
**Was directional survey made other than inclination (Form W-12)?** No      **Rotation time within surface casing (hours):**  
**Is Cementing Affidavit (Form W-15) attached?** No  
**Recompletion or reclass?** Yes      **Multiple completion?** No  
**Type(s) of electric or other log(s) run:** Gamma Ray (MWD)  
**Electric Log Other Description:**  
**Location of well, relative to nearest lease boundaries**      **Off Lease :** No  
**of lease on which this well is located:**      1525.0 **Feet from the**      North **Line and**  
1320.0 **Feet from the**      West **Line of the**  
UNIVERSITY 19-5 **Lease.**

**FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.**

	<u>Field &amp; Reservoir</u>	<u>Gas ID or Oil Lease No.</u>	<u>Well No.</u>	<u>Prior Service Type</u>
PACKET	PHANTOM (WOLFCAMP)	40552	1	





**CERTIFICATE OF COMPLIANCE  
 AND TRANSPORTATION AUTHORITY**

**P-4**  
 5/02—www-1

READ INSTRUCTIONS ON BACK

1. Field name exactly as shown on proration schedule <b>SANDBAR (BONE SPRING)</b>		2. Lease name as shown on proration schedule <b>UNIVERSITY 19-5</b>			
3. Current operator name exactly as shown on P-5 Organization Report <b>ANADARKO E&amp;P ONSHORE LLC</b>		4. Operator P-5 no. <b>020528</b>	5. Oil Lse/Gas ID no.	6. County <b>LOVING</b>	7. RRC district <b>08</b>
8. Operator address including city, state, and zip code <b>ATTN: FRANK DAVIS PO BOX 1330 HOUSTON, TX 77251-1330</b>		9. Well no(s) (see instruction E) <b>1H</b>			
		10. Classification <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Gas <input type="checkbox"/> Other (see instruction A)		11. Effective Date <b>11/01/16</b>	
12. Purpose of Filing. (Complete section a or b below.) (See instructions B and G)					
a. Change of: <input type="checkbox"/> operator <input type="checkbox"/> oil or condensate gatherer <input type="checkbox"/> gas gatherer <input type="checkbox"/> gas purchaser <input type="checkbox"/> gas purchaser system code					
<input checked="" type="checkbox"/> field name from: <b>PHANTOM (WOLFCAMP)</b>					
<input type="checkbox"/> lease name from: _____					
OR					
b. New RRC Number for: <input type="checkbox"/> oil lease <input type="checkbox"/> gas well <input type="checkbox"/> other well (specify) _____					
Due to: <input type="checkbox"/> new completion or recompletion <input type="checkbox"/> reclass oil to gas <input type="checkbox"/> reclass gas to oil					
<input type="checkbox"/> consolidation, unitization, or subdivision (oil lease only)					

13. Authorized GAS WELL GAS or CASINGHEAD GAS Gatherer(s) and/or Purchaser(s). (See instruction G).					
Gatherer	Purchaser	Name of GAS WELL GAS or CASINGHEAD GAS Gatherer(s) or Purchaser(s) As Indicated in Columns to the Left <i>(Attach an additional sheet in same format if more space is needed)</i>	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X		DELAWARE BASIN JV GATHERING LLC		100	
	X	ANADARKO ENERGY SERVICES COMPANY	0001	100	

14. Authorized OIL or CONDENSATE Gatherer(s). (See instruction G).		RRC USE ONLY	
Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First <i>(Attach an additional sheet in same format if more space is needed)</i>	Percent of Take	Reviewer's initials: _____	
PLAINS MARKETING, L.P.	80.0	Approval date: _____	
EASTEX CRUDE COMPANY	20.0		

15. PREVIOUS OPERATOR CERTIFICATION FOR CHANGE OF OPERATOR P-4 FILING. Being the PREVIOUS OPERATOR, I certify that operating responsibility for the well(s) designated in this filing, located on the subject lease has been transferred in its entirety to the above named Current Operator. I understand, as Previous Operator, that designation of the above named operator as Current Operator is not effective until this certificate is approved by the Commission.

\_\_\_\_\_  
 Name of Previous Operator

\_\_\_\_\_  
 Name (print)

\_\_\_\_\_  
 Title

\_\_\_\_\_  
 Signature

Authorized Employee of previous operator       Authorized agent of previous operator (see instruction G)

\_\_\_\_\_  
 Date

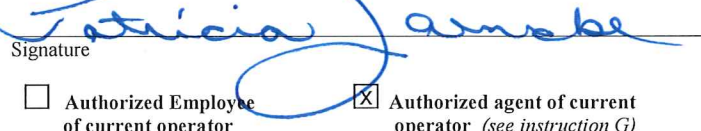
\_\_\_\_\_  
 Phone with area code

16. CURRENT OPERATOR CERTIFICATION. By signing this certificate as the Current Operator, I certify that all statements on this form are true and correct and I acknowledge responsibility for the regulatory compliance of the subject lease including plugging of well(s) pursuant to Rule 14. I further acknowledge that I assume responsibility for the physical operation, control, and proper plugging of each well designated in this filing. I also acknowledge that I will remain designated as the Current Operator until a new certificate designating a new Current Operator is approved by the Commission.

**PATRICIA JAENECKE**  
 Name (print)

**AGENT**  
 Title

**patricia.jaenecke@anadarko.com**  
 E-mail Address (optional)

  
 Signature

Authorized Employee of current operator       Authorized agent of current operator (see instruction G)

**05/09/17**  
 Date

**(832) 636-1439**  
 Phone with area code



DAVID PORTER, CHAIRMAN  
CHRISTI CRADDICK, COMMISSIONER  
RYAN SITTON, COMMISSIONER



LORI WROTENBERY  
DIRECTOR, OIL AND GAS DIVISION  
LESLIE SAVAGE, P.G.  
ASSISTANT DIRECTOR, TECHNICAL PERMITTING

# RAILROAD COMMISSION OF TEXAS

## OIL AND GAS DIVISION

October 19, 2016

ANADARKO PETROLEUM CORPORATION  
PO BOX 1330  
HOUSTON TX 77251-1330

RE: UNIVERSITY 19-5 — WELL NO. 1  
LOVING COUNTY, DISTRICT 08, TEXAS  
API NO. 301-31185  
LEASE/ID NO. 40552  
PRODUCING INTERVAL: 9574' to 9588'

Dear Operator:

The Commission has approved your request to transfer the above-referenced well from the PHANTOM (WOLFCAMP) (71052900) field to the SANDBAR (BONE SPRING) (80544500) field.

Please file Forms G-1/W-2, P-4, and W-1 (if not already done) for the well with the new field name indicating the transfer comments in the remarks section. If the previous completion report associated with lease/ID no. 40552 reported perforations, then mark "field transfer" in item #6 of the Form W-1. If this completion report did not report perforations, then mark "recompletion" instead. If the well is not on the proration schedule in either field, mark "amended." Contact the district 08 proration analyst, if you have any questions or to determine if a Form P-15 with plat is required.

Sincerely,

A handwritten signature in blue ink that reads "Karen Cassidy".

Karen Cassidy  
Eng. Specialist  
Technical Permitting



May 31st<sup>th</sup>, 2016

Railroad Commission of Texas  
1701 Congress Ave.  
Austin, Texas 78701  
Attn: Rick Behal

RE: Field Transfer of Wells to the Sandbar (Bone Spring) Field

Rick,

Anadarko is requesting a transfer of 120 wells from the Phantom (Wolfcamp) Field (#71052900) to the Sandbar (Bone Spring) Field, (#80544500).

When Anadarko began developing the Phantom (Wolfcamp) Field the field interval consisted of the Bone Spring 3 formation and the lower part of the Bone Spring 2 formation. At this time the Phantom (Wolfcamp) Field did not contain any Wolfcamp formation in the defined field interval. The initial development in the field consisted of drilling horizontal wells that targeted the Bone Spring 3 formation. During this time units were formed and some operators with rights to the Bone Spring and Wolfcamp formations lost Wolfcamp rights in the undeveloped Wolfcamp formation due to clauses in their mineral leases.

The Phantom (Wolfcamp) field added the first section of Wolfcamp formation on Feb 28<sup>th</sup> 2012 when Anadarko amended the field rules and added the top 250' of Wolfcamp to the base of the defined field interval in Docket # 08-0274237 (see key log-Lee 128 #1). Since that time the entire Wolfcamp formation has been added to the defined field interval.

The rights to the Wolfcamp below the Bone Spring 3 in many cases were re-leased with different lease terms. Field development progressed to targets in the Wolfcamp after the defined field interval expansion. This action lead to Wolfcamp acreage with different royalty and ownership interests than the shallower Bone Spring acreage. New drilling technology advances allow longer, more economical laterals that are currently locked into the limiting boundary of the shallower units.

Transferring wells that are currently drilled and producing in the Bone Spring 3 formation to the Sandbar (Bone Spring) field will allow the formation of more advantageous units for future wells in the Phantom (Wolfcamp) field. The Sandbar (Bone Spring) Field has a defined interval that contains the entire Bone Spring formation, from the base of the Delaware to the top of the Wolfcamp formation. (see Sandbar

Cross-section). Future Wolfcamp units will most likely be longer and narrower than existing 320 acre or 640 acre units thus allowing longer laterals and recovery of oil and gas that would otherwise be wasted.

Anadarko has investigated amending the field rules both fields. The proposed action contemplated transferring all Bone Spring 3 completions to the Sandbar (Bone Spring) Field and removing the Bone Spring formation from the Phantom (Wolfcamp) Field defined interval. We believe this proposal would be protested vigorously. Some operators have Bone Spring 3 producing wells and their leases allow them to hold valuable deep rights in the Wolfcamp formation as long as those shallower wells are producing. Transferring these wells to the Sandbar (Bone Spring) Field would most likely cause the loss of those rights.

Please let me know if we need to do anything else to address this issue.

Exhibits – 120 Wells to Transfer, Log of Lee 128 #1, Cross-section w/Log –Sandbar 54-3-39 #1, Map and Cross-section w/top of Bone Spring, top of 3<sup>rd</sup> Bone Spring and top of Wolfcamp, DVD w/wells to transfer.

Sincerely,



David Christian

Project Reservoir Engr. Advisor  
832-636-3507  
david.christian@anadarko.com

LEE 128 1

10,455'

Old interval

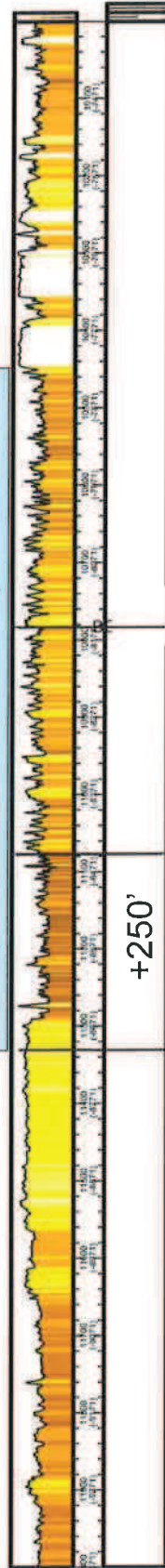
New Phantom Wolfcamp interval

Top of Bone Spring 3

Top of Wolfcamp

+250'

11,326'



PLEASE  
DO NOT STAPLE

DEPTH USABLE-QUALITY GROUND WATER BE PROTECTED

PLEASE READ ALL INSTRUCTIONS

The information requested is essential in order for this agency to provide an appropriate response. Please allow for receipt of this form in our offices at least two weeks before your operation begins. Due to the volume of these requests, at times, it may be difficult for us to handle telephone inquiries. Complete, keep the bottom sheet (goldenrod) for your files, and mail the top 3 sheets of the 4-sheet set of carbon-backed forms with a map to the address below. One sheet bearing our response will be returned to you. Another will be sent to the appropriate district office of the Railroad Commission. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282. If you have questions on how to fill out this form or about the Surface Casing program, please contact us at 512/239-0515.

Surface Casing - MC 151  
TCEQ  
P.O. Box 13087  
Austin, TX 78711-3087

Date 8/19/04

TCEQ File No.: SC-

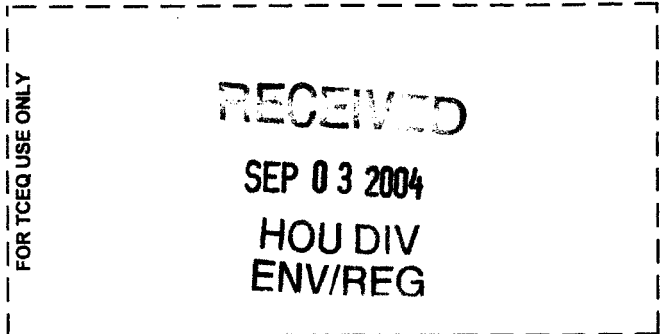
1920

Erin Bell 832-636-3490  
Name of person preparing this request & phone No. (with area code)

Anadarko Petroleum Corp  
Company (operator's name as on RRC form W-1)

P.O. Box 1330  
Mailing Address

Houston, TX 77251  
City and State ZIP Code



ALWAYS INCLUDE A MAP SHOWING YOUR WELL SITE AND ALL SURROUNDING SURVEYS

COUNTY Loving Survey Name University Land  
Block No. 19 Township \_\_\_\_\_ Section or Survey No. 5 (or) Lot No. \_\_\_\_\_  
Abstract No. A- \_\_\_\_\_ LEASE Name University 19-5 Well No. 1  
Distances, in feet, and directions measured at right angles from each of two intersecting  Section or  Survey lines  
(NOT LEASE LINES) 1525 feet from N line and 1320 feet from W line.  
Distance (in miles) and direction from a nearby town in this County (name the town)  
20 miles W of Kermit  
THE ABOVE INFORMATION IN THIS BLOCK MUST BE COMPLETE AND CORRECT  
API # \_\_\_\_\_ RRC Lease No. \_\_\_\_\_ RRC Dist. No. 8  
GPS Coord. (long/lat or X-Y state plane) 31° 42' 37.69" 103° 27' 32.53" NAD

Elevation 2780 Total Depth 18500 Geologic Fm. at T.D. Morrow  
Purpose of the Request:  New Drill  Re-entry  Plug & Abandon  Other (specify) \_\_\_\_\_

Is this an amended request?  Yes  No Previous File No. for this well: SC- \_\_\_\_\_  
 Log included of same or nearby well (The applicable type of well log that shows the aquifers.) Please provide a location map or API# for attached log.

ALWAYS attach the electric log of any well that is to be reentered.

Additional remarks: \_\_\_\_\_

To protect usable-quality ground water at this location, the TEXAS COMMISSION ON ENVIRONMENTAL QUALITY recommends:

CO-LOVING, SUR-UL, BLK-19, SEC-5, LSE-UNIVERSITY 19-5, #37/300, RUSTLER, 550, 1000 ...

Water-bearing strata from the land surface to a depth of 300 feet and the RUSTLER, which is estimated to occur from 550 to 1000 feet must be protected.

FOLD

TYPE OR PRINT IN INK

DO

DO NOT WRITE HERE  
FOR TCEQ USE ONLY

Very truly yours,  
  
Jack M. Oswalt, P.G.

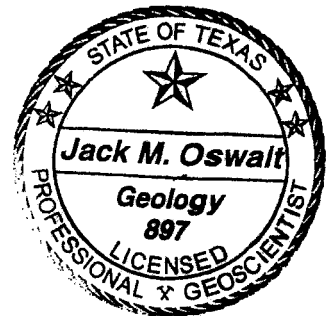
August 30, 2004

Date

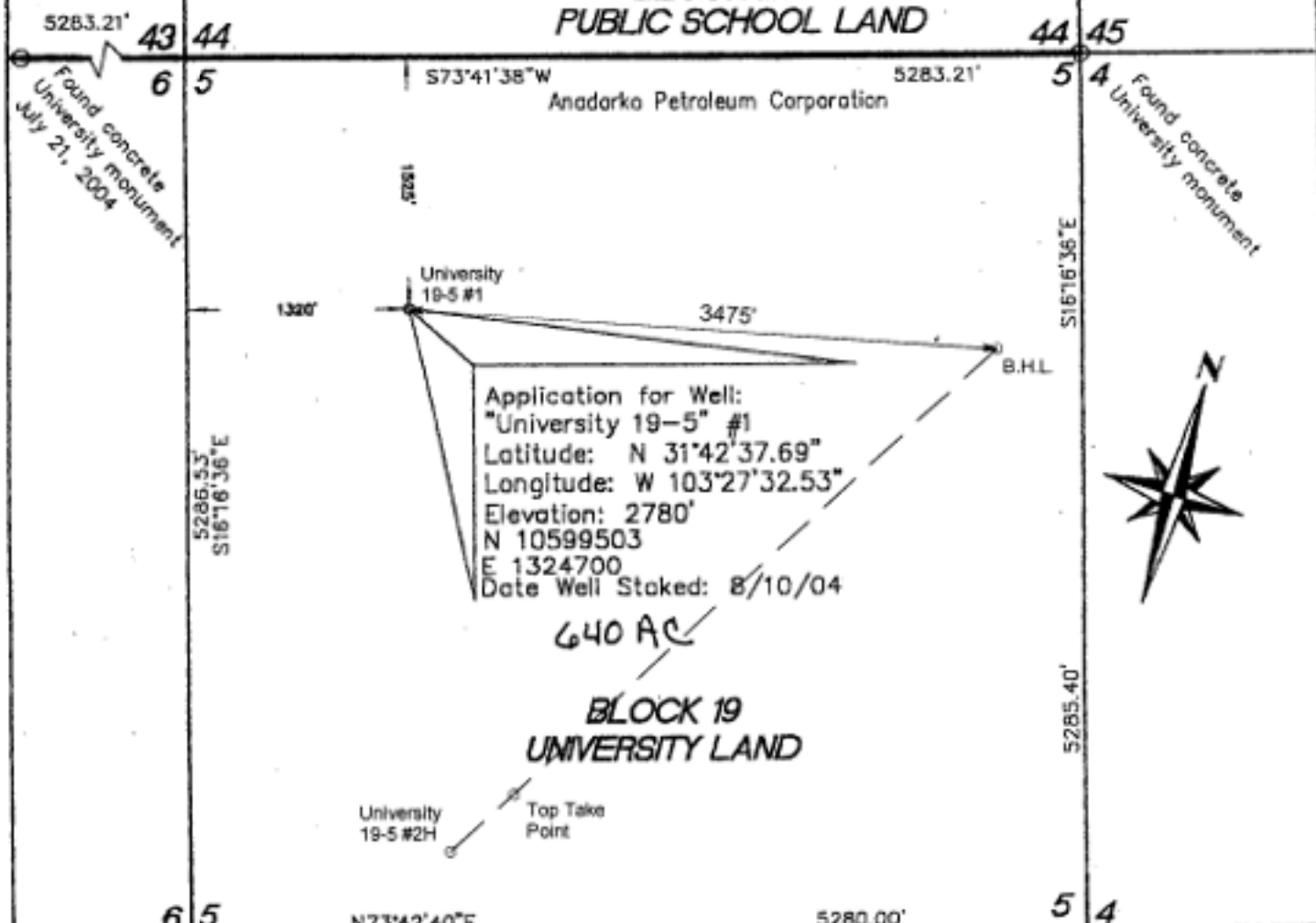
typed by TCEQ

Geologist, Surface Casing, TCEQ

NOTE: Unless stated otherwise, this recommendation is intended to apply only to the subject well and not for area-wide use. Approval of the well-completion methods for protection of this ground water falls under the jurisdiction of the Railroad Commission of Texas. This recommendation is intended for normal drilling, production, and plugging operations only. It does not apply to saltwater disposal operations into a nonproductive zone (RRC Form W-14).



**BLOCK 29  
PUBLIC SCHOOL LAND**



Application for Well:  
 "University 19-5" #1  
 Latitude: N 31°42'37.69"  
 Longitude: W 103°27'32.53"  
 Elevation: 2780'  
 N 10599503  
 E 1324700  
 Date Well Staked: 8/10/04

**640 AC**  
**BLOCK 19  
UNIVERSITY LAND**

**ANADARKO  
PETROLEUM CORPORATION**

"UNIVERSITY 19-5"  
 Well No. #1  
 1525' From the North Line  
 1320' From the West Line  
 Section 5, Block 19,  
 University Lands Survey  
 Loving County, Texas



DATED THIS THE 10th DAY OF AUGUST 2004

*Bruce R. Pennell*  
 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 4170  
 DATE: 8/10/04

NOTE:  
 All bearings, distances, coordinates, latitudes and longitudes shown hereon are based on the NGS Triangulation Station "MOOREHEAD" Texas State Plane Coordinate System (NAD83) central zone.

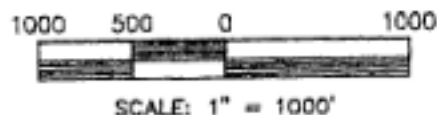
20 Miles West of Kermil, Texas

BRP ENTERPRISES, INC.  
 (BRUCE R. PENNELL)  
 P.O. BOX 51822, MIDLAND, TEXAS 79710  
 VOICE: (432)570-8256 FAX: (432)682-3282 MOBILE: (432)528-1027

DATA FILE: HALEY-AREA

CAD FILE: UNIVERSITY 19-5-1.MXD

DRAWN BY: MARCUS H. CREMELIUS



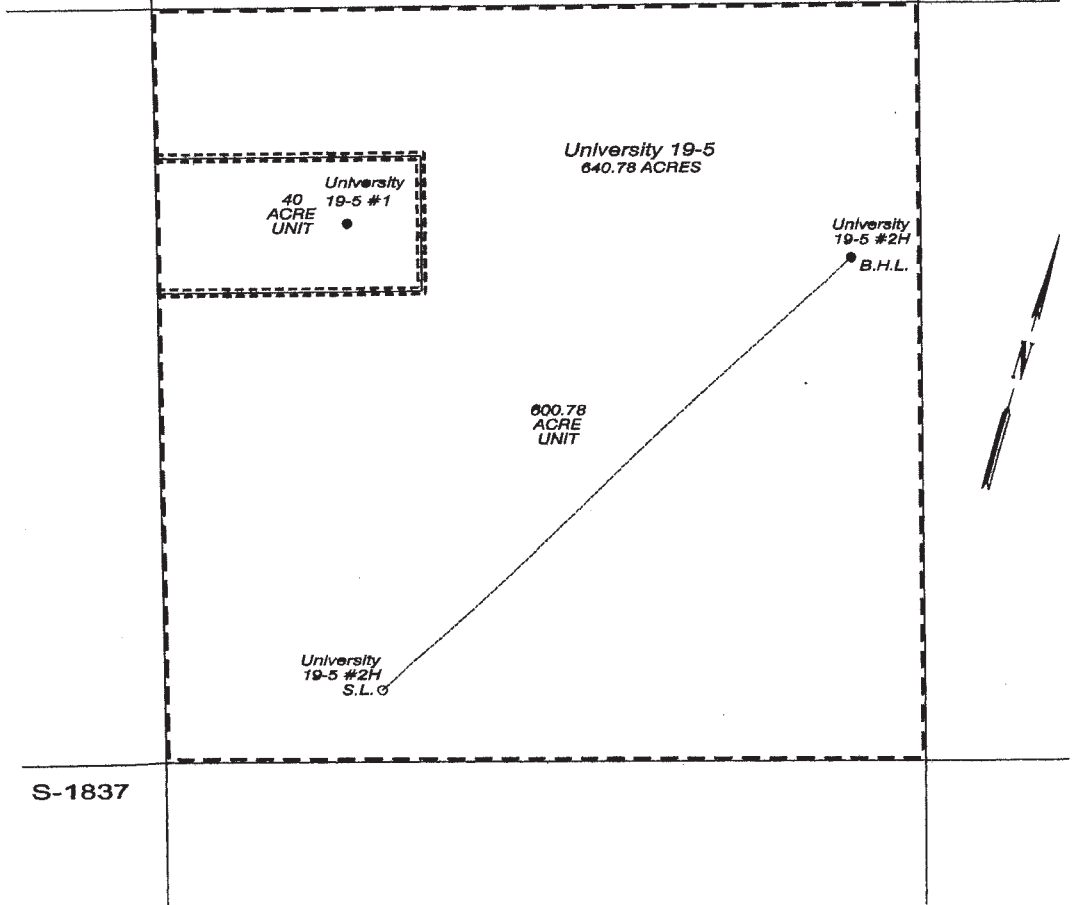
Found concrete  
 University monument  
 April 2004

NOTE: Acreages shown hereon are based on information provided by others.  
 The plat shown hereon does not represent a boundary survey.

F-147398

Block 29, Public School Land Survey  
 F-135705

F-135706



S-1837

PRORATION PLAT  
 SHOWING

ANADARKO PETROLEUM CORP.  
 UNIVERSITY 19-5 UNIT  
 WELL 1  
 UNIVERSITY LANDS SURVEY  
 LOVING COUNTY, TEXAS

CERTIFICATION  
 I HEREBY CERTIFY THAT THIS PLAT HAS BEEN  
 EXAMINED BY ME AND THAT THE INFORMATION  
 CONTAINED THEREON IS TO THE BEST OF MY  
 KNOWLEDGE AND BELIEF, TRUE, CORRECT, AND  
 COMPLETE.

SIGNED Cari Vaughn  
 DATE OF 11/16/10

1000 500 0 1000 2000  
 SCALE 1" = 1000'

Plat drafted from  
 data supplied by:

WEST COMPANY  
 OF MIDLAND, INC.  
 110 W. LOUISIANA, STE 110  
 MIDLAND, TX 79701  
 (432) 687-0865

I, the undersigned, do hereby certify that this plat is true  
 and correct to the best of my knowledge and belief.

BY: \_\_\_\_\_

November 16, 2010