



RAILROAD COMMISSION OF TEXAS

Form W-2

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

Status: Submitted
Date: 03/06/2023
Tracking No.: 287768

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT,

OPERATOR INFORMATION

Table with Operator, ANADARKO E&P ONSHORE LLC, Operator 020528, and address information.

WELL INFORMATION

Table with well details: API 42-301-31185, Well No.: 1, Lease UNIVERSITY 19-5, RRC Lease 48459, Location, County: LOVING, RRC District 08, Field SANDBAR (BONE SPRING), Field No.: 80544500, Latitude 31, Longitud -103, and nearest town KERMIT.

FILING INFORMATION

Table with filing details: Purpose of Well Record Only, Type of Other/Recompletion, Well Type: Shut-In Producer, Completion or Recompletion 01/24/2023, Type of Permit, Date 04/19/2017, Permit No. 825147.

COMPLETION INFORMATION

Table with completion details: Spud 09/13/2010, Date of first production after rig 01/24/2023, Date plug back, deepening, drilling operation 01/20/2023, Date plug back, deepening, recompletion, drilling operation 01/24/2023, Number of producing wells on this lease this field (reservoir) including this 1, Distance to nearest well in lease & reservoir 3475.0, Total number of acres in 640.78, Elevation 2780 GL, Total depth TVD 17900, Total depth MD, Plug back depth TVD 9485, Plug back depth MD, Was directional survey made other inclination (Form W- No, Rotation time within surface casing Is Cementing Affidavit (Form W-15) No, Recompletion or Yes, Multiple No, Type(s) of electric or other log(s) Gamma Ray (MWD), Electric Log Other Description:, Location of well, relative to nearest lease of lease on which this well is 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.

Table with columns: Field & Reservoir, Gas ID or Oil Lease, Well No., Prior Service Type. PACKET: N/A

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination	Depth	Date
SWR 13 Exception	Depth	

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of		Production
Number of hours	24	Choke
Was swab used during this	No	Oil produced prior to

PRODUCTION DURING TEST PERIOD:

Oil		Gas
Gas - Oil	0	Flowing Tubing
Water		

CALCULATED 24-HOUR RATE

Oil		Gas
Oil Gravity - API - 60.:		Casing
Water		

CASING RECORD

<u>Ro</u>	<u>Type of Casing</u>	<u>Casing Size (in.)</u>	<u>Hole Size</u>	<u>Setting Depth</u>	<u>Multi - Stage</u>	<u>Multi - Tool Stage Shoe</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined By</u>
1	Surface	13 3/8	17 1/2	4920			PREM	4555	7763.0	SURF ACE	Circulated to Surface
2	Intermediate	10 3/4	12 1/4	12347			PREM	550	898.0	7574	Calculation
3	Conventional Production	5	8 3/4	17900			CLASS H	2165	3358.0	8960	Calculation

LINER RECORD

<u>Ro</u>	<u>Liner Size</u>	<u>Hole Size</u>	<u>Liner Top</u>	<u>Liner Bottom</u>	<u>Cement Class</u>	<u>Cement Amoun</u>	<u>Slurry Volume (cu.)</u>	<u>Top of Cement (ft.)</u>	<u>TOC Determined</u>
N/A									

TUBING RECORD

<u>Ro</u>	<u>Size (in.)</u>	<u>Depth</u>	<u>Size (ft.)</u>	<u>Packer Depth (ft.)/Type</u>
N/A				/

PRODUCING/INJECTION/DISPOSAL INTERVAL

<u>Ro</u>	<u>Open hole?</u>	<u>From (ft.)</u>	<u>To (ft.)</u>
N/A		L	

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment	No
Is well equipped with a downhole sleeve?	No
Production casing test pressure (PSIG) during hydraulic fracturing	If yes, actuation pressure Actual maximum pressure (PSIG) during fracturin
Has the hydraulic fracturing fluid disclosure been	No

<u>Ro</u>	<u>Type of Operation</u>	<u>Amount and Kind of Material Used</u>	<u>Depth Interval (ft.)</u>
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RAILROAD COMMISSION OF TEXAS

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

Form W-15

Rev. 08/2014

Cementer: Fill in shaded areas.
Operator: Fill in other items.

CEMENTING REPORT

OPERATOR INFORMATION			
Operator Name:	Anadarko E&P Onshore LLC	Operator P-5 No.:	020528
Cementer Name:	Apollo Perforators Inc	Cementer P-5 No.:	NA

WELL INFORMATION			
District No.:	08	County:	Loving
Well No.:	1	API No.:	4230130185
Lease Name:	University 19-5	Drilling Permit No.:	825147
Field Name:	Sandbar (Bone Spring)	Lease No.:	48459
		Field No.:	80544500

I. CASING CEMENTING DATA			
Type of casing: <input type="checkbox"/> Conductor <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Liner <input type="checkbox"/> Production			
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):	Top of liner (ft.):
			Setting depth liner (ft.):
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA			
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement shoe <input type="checkbox"/> Multiple parallel strings			
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight (lbs/ft) and grade Upper: Lower:	
		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth shoe (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

III. CASING CEMENTING DATA			
Type of casing: <input type="checkbox"/> Surface <input type="checkbox"/> Intermediate <input type="checkbox"/> Production <input type="checkbox"/> Tapered production <input type="checkbox"/> Multi-stage cement/DV tool <input type="checkbox"/> Multiple parallel strings			
Drilled hole size (in.):	Depth of drilled hole (ft.):	Est. % wash-out or hole enlargement:	
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:	No. of centralizers used:	
Tapered string drilled hole size (in.) Upper: Lower:		Tapered string depth of drilled hole (ft.) Upper: Lower:	
Tapered string size of casing in O.D. (in.) Upper: Lower:		Tapered string casing weight (lbs/ft) and grade Upper: Lower:	
		Tapered string no. of centralizers used Upper: Lower:	
Was cement circulated to ground surface (or bottom of cellar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth tool (ft.):	
Hrs. waiting on cement before drill-out:	Calculated top of cement (ft.):	Cementing date:	

SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

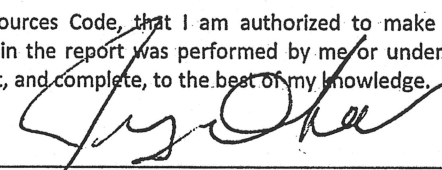
CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON							
	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	1/24/23						
Size of hole or pipe (in.)	5 1/2"						
Depth to bottom of tubing or drill pipe (ft.)	—						
Cement retainer setting depth (ft.)	—						
CIBP setting depth (ft.)	95.5'						
Amount of cement on top of CIBP (ft.)	30'						
Sacks of cement used	3						
Slurry volume pumped (cu. ft.)	NA						
Calculated top of plug (ft.)	94.55						
Measured top of plug, if tagged (ft.)	94.55						
Slurry weight (lbs/gal)	14.8						
Class/type of cement	C						
Perforate and squeeze (YES/NO)	NO						

REMARKS

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

JERRY LEE, CR

APOLLO PERFORATORS INC



Name and title of cementer's representative	Cementing Company	Signature
P.O. BOX 12940	ODESSA, TX 79768	432-563-0891
Address	City, State, Zip Code	Tel: Area Code Number
		Date: mo. day yr. 1/24/23

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Shawn Hildreth

Regulatory Advisor



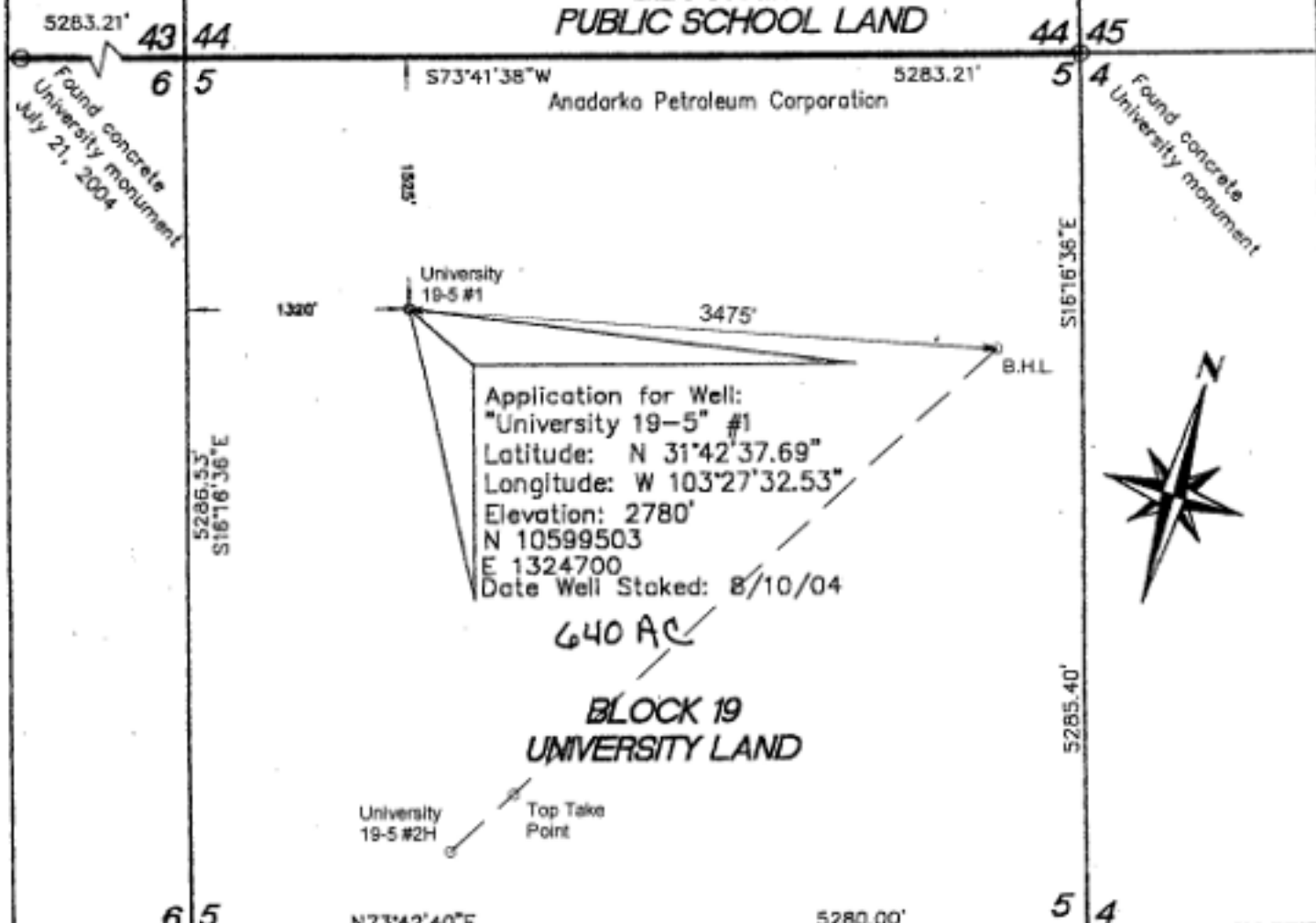
Typed or printed name of operator's representative	Title	Signature
5 Greenway Plaza, Ste. 110	Houston, TX 77046	713-552-8728
Address	City, State, Zip Code	Tel: Area Code Number
		Date: mo. day yr. 01/31/2023

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- A. **What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. **How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- C. **Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
To plug and abandon a well, operators must use only cementers approved by the Commission's Director of Field Operations in accordance with SWR 14 ([https://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14](https://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=&ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- D. **Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- E. **Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- F. **Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- G. **Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.

**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

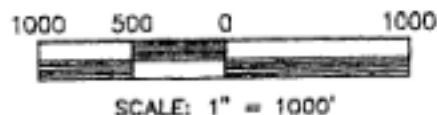
Bruce R. Pennell
 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 4170
 DATE: 8/10/04

Found concrete
 University monument
 April 2004

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

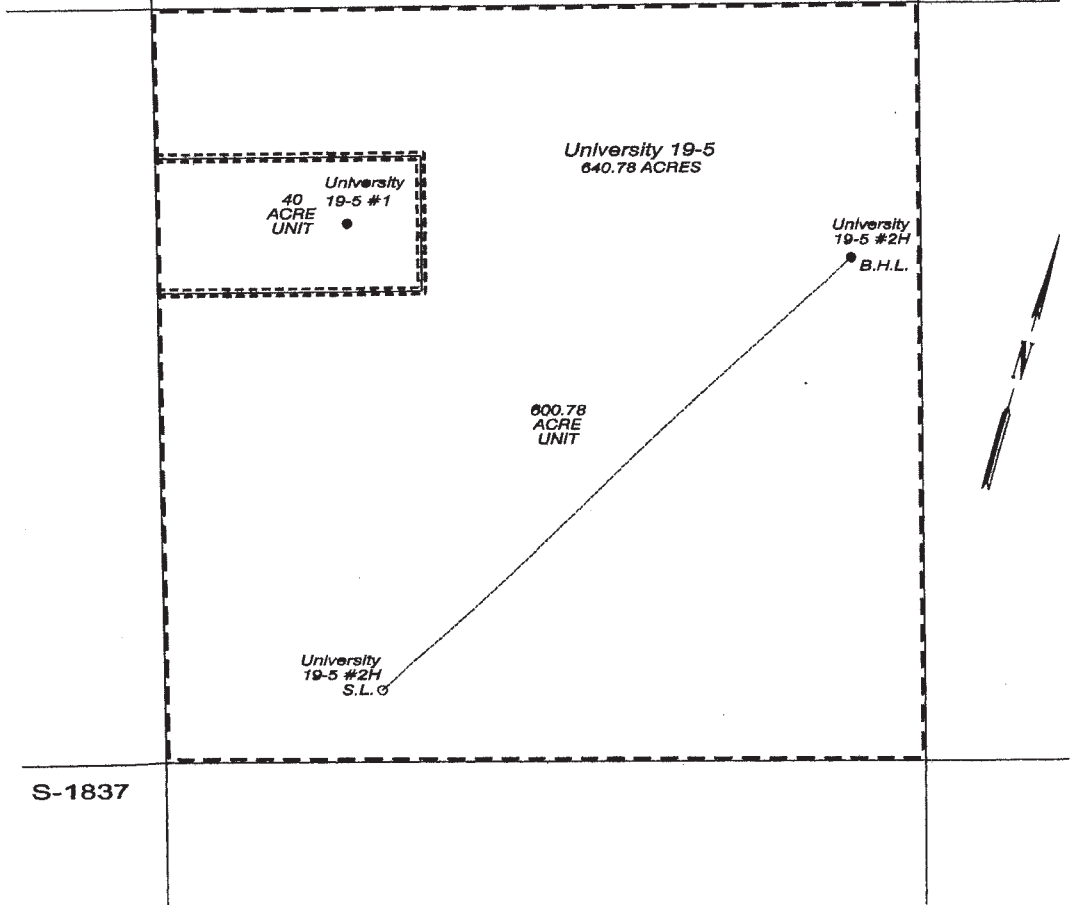
DRAWN BY: MARCUS H. CREWELL/CW

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:

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

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

BY: _____

November 16, 2010