Form G-1

RAILROAD COMMISION OF TEXAS
Oil and Gas Division

Rev. 4/1/83
EAG0897

Type or print only
483-047

API No 42- 475-35180

7. RRC District No. 08

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log

8 RRC Gas ID No N/A

1 FIELD NAME (as per RRC Records or Wildcat): Haley (Lwr. Wolfcamp-Penn Cons.)

2 LEASE NAME: University 19-27

9 Well No 1

3. OPERATOR'S NAME (exactly as shown on Form P-5, Organization Report): Anadarko Petroleum Corporation

RRC Operator No 020572

10 County of well site: Ward

4 ADDRESS: P.O. Box 1330 - Houston, TX 77251

11 Purpose of filing
- Initial Potential [X]
- Retest [ ]
- Reclass [ ]
- Well record only (Explain in remarks) [ ]

5 Location (Section, Block, and Survey): Sec. 27, Blk. 19, UL

5b. Distance and direction to nearest town in this county: 20.5 miles Southwest from Winkler

6 If operator has changed within last 60 days, name former operator

12 If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no.

FIELD & RESERVOIR	GAS ID or OIL LEASE #	Oil -- O Gas -- G	WELL #

13 Pipe Line Connection: Anadarko Energy Services

14 Completion or recompletion date: 11/2/07

15. Any condensate on hand at time of workover or recompletion? [ ] Yes [ ] No

16 Type of Electric or other Log Run: GR

Section I

GAS MEASUREMENT DATA

Date of Test: 11/7-10/07

Gas measurement Method (Check One): Orifice Meter [ ] ▶ Flange Taps [ ] Pipe Taps [ ] Positive Choke [ ] Orifice Vent Meter [ ] Pitot Tube [ ] Critical-flow Prover [ ]

Gas produced during test: 17253 MCF

Run No	Line Size	Orif or Choke Size	24 Hr Coeff. Orif or Choke	Static P_m or Choke Press	Diff h_w	Flow Temp °F	Temp Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	4.026	1.5		1153.8	136.6	123.2	-	-	-	5751
2										
3										
4										

Section II

FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg Shut-in Temp	Bottom Hole Temp
0.571	0 Deg API	0 CF/Bbl	G_{mix} = -	- °F	240° F @ 16283' (Depth)

$D_{eff}^{8/3}$ = $\sqrt{T_f}$ = $\sqrt{\quad}$ = $\sqrt{GL}$ = $\sqrt{\quad}$ =

$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = = $\frac{\sqrt{GL}}{C}$ = ____ = ____

Run No	Time of Run Min	Choke Size	Wellhead Press PSIA P_w	Wellhead Flow Temp °F	P_w^2 (Thousands)	R	R^2 (Thousands)	P_I	R/P_I
Shut-In			SEE REMARKS						
1	4320	11/64	1246	123.2					
2									
3									
4									

Run No	F	K	$S = \frac{1}{z}$	E^{ks}	P_f and P_s	P_f^2 and P_s^2 (Thousands)	$P_f^2 - P_s^2$ (Thousands)
Shut-In							
1							
2							
3							
4							

Angle of Slope

h

n

Absolute Open Flow MCF/DAY

WELL TESTER'S CERTIFICATION I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct and complete to the best of my knowledge Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well

TEST BY ANADARKO EMPLOYEE

Signature Well Tester — Name of Company — RRC Representative

OPERATOR'S CERTIFICATION I declare under penalties prescribed in Sec 91 143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Jill Fowler — Regulatory Analyst — 1/31/08 — Tel 832.636.1554

Signature, Operator's representative — Title — Date — A/C Number

SECTION III **DATA ON WELL COMPLETION AND LOG (Not Required on Retest)**

17. Type of Completion: New Well [X] Deepening [ ] Plug Back [ ] Other [ ]

18. Permit to Drill, Plug Back or Deepen — DATE: 10/3/06 — PERMIT NO: 626545

Rule 37 Exception — CASE NO:

Water Injection Permit — PERMIT NO:

Salt Water Disposal Permit — PERMIT NO:

Other — PERMIT NO:

19. Notice of Intention to Drill this well was filed in Name of: Anadarko Petroleum Corporation

20. Number of producing wells on this lease in this field (reservoir) including this well: 1

21. Total number of acres in this lease: 641.0

22. Date Plug Back, Deepening, WorkOver or Drilling Operations: Commenced 6/5/07; Completed 10/6/07

23. Distance to nearest well, Same Lease & Reservoir: n/a

24. Location of well, relative to nearest lease boundaries of lease on which this well is located: 1320 Feet From North Line and 1320 Feet from West Line of the University 19-27 Lease

25. Elevation (DF, RKB, RT, GR, ETC.): 2837' GR

26. Was directional survey made other than inclination (Form W--12)? [ ] Yes [X] No

27. Top of Pay: 15012'

28. Total Depth: 17848'

29. P B Depth: 17770'

30. Surface Casing Determined by: Field Rules [ ]; Recommendation of T D W R. Railroad Commission (Special) [X] Dt. of Letter 9/28/06; [X] Dt. of Letter 12/12/06

31. Is well multiple completion? [ ] Yes [X] No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No

FIELD & RESERVOIR	GAS ID or OIL LEASE#	Oil--O Gas--G	WELL #

33. Intervals Drilled by: Rotary Tools X; Cable Tools

34. Name of Drilling Contractor: Rowan Drilling Company

35. Is Cementing Affidavit Attached? [X] Yes [ ] No

36. **CASING RECORD (Report All Strings Set in Well)**

CASING SIZE	WT#/FT	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu ft
13 3/8	68.0	5183'	--	4000 sx "C"	17 1/2	750	7932.5
10 3/4	65.7	12547'	--	1271 sx "C&H"	12 1/4	2500	3929
5, 5 1/2	23.2, 26.0	17848'	--	2165 sx "H"	8 3/4	8000	3399.05

37. **LINER RECORD**

Size	TOP	Bottom	Sacks Cement	Screen
--				

38. **TUBING RECORD**

Size	Depth Set	Packer Set
n/a		

39. Producing Interval (this completion) Indicate depth of perforation or open hole

From 15426' To 17140'

From To

From To

From To

40. **ACID, SHOT, FRACTURE, CEMENT SQEEZE, ETC.**

Depth Interval	Amount and Kind of Material Used
17130'-140'	Frac w/ 140,000# 20/40 Sinterball
15426'-428', 15792'-794', 15970'-972', 16059'-061'	Frac w/ 400,160# 20/40 Sinterball

41. **FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)**

Formations	Depth	Formations	Depth
Bone Springs	10277'	Atoka	16851'
Wolfcamp	11576'	Morrow	17278'
Strawn	15012'		

REMARKS NEW GAS WELL - PRODUCING

BHP = 16058 psi @ 17130'

EXCEPTION TO SIWH PRESSURE PER DKT #08-0249064

*APC received verbal approval from Joe Guerra and Mark Henkhause with the Midland RRC on 8/10/07 at 9:30 to sidetrack the University 19-27 #1 well.

OPERATOR NAME AND ADDRESS, including city, state and zip

Anadarko Petroleum Corporation
P. O. Box 1330
Houston, Texas 77251-1330

GAS WELL STATUS REPORT

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
P.O. Box 12967
Austin, Texas 78711-2967
Page 1 of 1

Reason for Filing: [ ] Survey [ ] Retest [X] Initial Test [ ] Correction

Operator P-5 Organization No: 020572

RRC Dist. No: 08

G-10 rev. 7/95 EAG0897

Test Period:
Due Date:
Effective Date:

FIELD NAME / * LEASE NAME	RRC IDENT NO. / WELL NO.	DATE TESTED MO/DAY/YR / MARK X FOR SHUT-IN WELL	GAS PRODUCED MCF/DAY** / GAS SPEC. GRAVITY	CONDENSATE PRODUCED / CONDENSATE GRAVITY (API)	WATER PROD BBL/DAY / X BOTTOMHOLE PRESSURE PSIA	***SIWH PRESSURE PSIA / ***FLOWING PRESSURE PSIA
Haley (Lwr. Wolfcamp-Penn Cons.)	N/A	11/10/07	5751 MCF	0 BBL	278 BBL	EXC
University 19-27	1		.571	0		1246
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	
			MCF	BBL	BBL	

Certification: I declare under penalties prescribed in Texas Natural Resources Code, Sec. 91.143, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge

Signature: _____ Title: Regulatory Analyst Phone 832.636.1554 Date 1/31/08

* AN ASTERISK PREPRINTED ON A SURVEY IDENTIFIES WELL SUBJECT TO COMMINGLING TEST

** GAS PRODUCTION RATE, IN MCF, IS TO BE REPORTED FULL-WELL STREAM, INCLUDING

X AN "X" PREPRINTED ON A SURVEY IN THE BOTTOMHOLE PRESSURE BOX INDICATES A BOTTOMHOLE PRESSURE MUST BE REPORTED FOR THE

*** PRESSURE FOR THE TEXAS HUGOTON FIELD IS REPORTED IN

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form G-5

Rev 01/01/86

EAG0897

READ INSTRUCTIONS ON BACK

GAS WELL CLASSIFICATION REPORT

1. OPERATOR NAME (Exactly as shown on Form P-5 Organization Report)	3 RRC DISTRICT NO	4 OIL LEASE NO OR GAS WELL ID NO.
Anadarko Petroleum Corporation	08	N/A
2 MAILING ADDRESS P.O. Box 1330 Houston, TX 77251	5. WELL NO 1	6 API NO 42- 475-35180
	7 COUNTY OF WELL SITE Ward	
8. FIELD NAME Haley (Lwr. Wolfcamp-Penn Cons.)	9. LEASE NAME University 19-27	
10 LOCATION (Section, Block, and Survey) Sec. 27, Blk. 19, UL	11 PIPELINE CONNECTION OR USE OF GAS Anadarko Energy Services	

I. PRODUCTION TEST AT RATE ELECTED BY OPERATOR (data on 24-hour basis)

A. Date of Test: 11/7/07-11/10/07

B. Gas Volume: 5751 (Mcf)

C. Oil or Condensate Volume: 0 (Bbl)

D. Water Volume: 278 (Bbl)

E. Gas/Liquid Hydrocarbon Ratio: 0 (Cf/Bbl)

F. Flowing Tubing Pressure: 1246 (psia)

G. Choke Size: 11/64 (in)

H. Casing Pressure: - (psia)

I. Shut-in Wellhead Pressure-Tubing: EXC - DKT #08-0249064 (psia)

J. Separator Operating Pressure: - (psia)

K. Color of Stock Tank Liquid: -

L. Gravity of Separator Liquid: - °API

M. Gravity of Stock Tank Liquid: 0 °API

N. Specific Gravity of the Gas (Air = 1): 0

II. A.S.T.M. DISTILLATION OF LIQUID SAMPLE. Distillation test is required for gas wells ONLY if the producing gas-liquid hydrocarbon ratio is less than 100,000 CF/barrel

Date Liquid Sample Obtained: N/A

Where Obtained: ☐ Separator ☐ Stock Tank

% Over	Temp (deg F)	% Over	Temp. (deg. F)
Initial Boiling Temp		60	
10		70	
20		80	
30		90	
40		95	
50		End Point	

Total Recovery: _____ percent

Residue: _____ percent

Loss: _____ percent

I declare under penalties prescribed in Sec 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete to the best of my knowledge.

Jill Fowler
NAME (Type or Print)

Jill Fowler
SIGNATURE

Regulatory Analyst
TITLE

1/31/08
DATE

Jill Fowler
CONTACT PERSON

(832) 636.1554
PHONE NUMBER

RRC USE ONLY

APPLICATION FOR ALTERNATE SURFACE CASING PROGRAM
Statewide Rule 13(b)(2)(g)
RRC District 8/8A

Operator's Name and Address	Lease: University 19-27	Well No.: 1
Anadarko Petroleum Corporation P. O. Box 1330 Houston, Texas 77251-1330	Field: Haley (Lower Wolfcamp-Penn Cons.)	
	Drilling Permit No.: 626545	
	County: Ward	RRC District: 08
	Location: Sec. 27 Block 19 Sur U.L. Twp.	
	Proposed TD: 19500	

Distance and Direction from nearest town: 20.5 Miles SW from Winkler

* Proposed injection or disposal well? ☐Yes ☒No NOTE Special conditions may apply. See PROVISIONS below.

Usable-quality water strata (as determined by TCEQ "Waterboard" letter) occur to a depth of 400 ft, and from 750 ft to 1150 ft, and from _____ ft to _____ ft

Note: Please submit copy of TCEQ "Waterboard" letter with this request. Request cannot be processed without this information.

Distance and direction of nearest water well (within ¼ mile): N/A

Type of water well (domestic, public, irrigation, stock, etc.): N/A Depth N/A

Proposed Casing and Cementing Program

Note: You may attach a wellbore diagram or cementing proposal to this application

This application is for (check applicable boxes): ☐Short surface casing ☒excess surface casing ☐no surface casing

The proposed surface casing depth: 5150 Multi-Stage tool depth (if applicable) _____

Intermediate or production casing depth: 12650 Multi-Stage tool depth (if applicable) _____

Centralizer number and placement: Every other joint for 20 joints. Every 4th joint. To surface (Total: 35 centralizers)

Does the cement across the critical zone have 72-hr compressive strength of at least 1,200 psi? ☒Yes ☐No

Does the filler cement have 24-hr compressive strength of at least 250 psi? ☒Yes ☐No

Do you plan on circulating cement to the surface on all casing strings protecting usable-quality water? ☒Yes ☐No

Reason for this request: Optimize casing design for a deep, high pressure well.

PROVISIONS APPLICIBLE TO RULE 13 EXCEPTIONS:

1. Caution: If this well is being drilled for injection or disposal purposes, an injection or disposal well permit may be denied unless surface casing is set and cemented through all zones of usable-quality groundwater
2. Centralizers must be used through all usable-quality waters. Refer to Rule 13(b)(2)(F)
3. Notify District Office 8 hours prior to setting casing

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RRC OF TEXAS
DEC 12 2006
O&G
MIDLAND

Signature [signature] Print Name: Carla Ghazizadeh Date 12/11/06 Phone 832-636-3315

IF CEMENT IS NOT CIRCULATED TO THE GROUND SURFACE AS REQUIRED BY THIS EXCEPTION, YOU MUST IMMEDIATELY CONTACT THE DISTRICT 8/8A OFFICE AT 432-684-5581, AND FOLLOW THE PROCEDURES AS SET OUT IN RULE 13(B)(2)(g)(III) OR AS RECOMMENDED BY THE DISTRICT OFFICE.

RRC Use Only ▶

RRC District Office Action:

☒Approved ☐Approved as Modified ☐Denied By [signature] Date 12/12/06

Remarks/Modifications

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division
PO Box 12967
Austin TX 78711-2967
www.rrc.state.tx.us

CERTIFICATE OF COMPLIANCE AND TRANSPORTATION AUTHORITY

READ INSTRUCTIONS ON BACK

P-4
5/02
EAG0502

1 Field name exactly as shown on proration schedule	2. Lease name as shown on proration schedule			
Haley (Lwr. Wolfcamp-Penn Cons.)	University 19-27			
3 Current operator name exactly as shown on P-5 Organization Report	4 Operator P-5 no	5 Oil Lse/Gas ID no	6 County	7 RRC district
Anadarko Petroleum Corporation	020572	N/A	Ward	08
8. Operator address including city state, and zip code	9 Well no(s) *(see instruction E)*			
P.O. Box 1330 Houston, TX 77251	1			
	10 Classification ☐ Oil ☒ Gas ☐ Other *(see instruction A)*		11. Effective date 11/2/07	

12 Purpose of Filing. (Complete section a or b below) *(See instructions B and G)*

a. **Change of:** ☐ operator ☐ oil or condensate gatherer ☐ gas gatherer ☐ gas purchaser ☐ gas purchaser system code
☐ field name from _____
☐ lease name from _____

OR

b. **New RRC Number for:** ☐ oil lease ☒ gas well **Due to:** ☒ new completion or recompletion ☐ reclass oil to gas ☐ reclass gas to oil
☐ other well (specify) _____ ☐ 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 *(Attach an additional sheet in same format if more space is needed)*	Purchaser's RRC Assigned System Code	Percent of Take	Full-well stream
X		Anadarko Gathering		100.0	
	X	Anadarko Energy Services	0001	100.0	

14. Authorized OIL or CONDENSATE Gatherer(s). *(See instruction G)*

Name of OIL or CONDENSATE Gatherer(s) - List Highest Volume Gatherer First *(Attach an additional sheet in same format if more space is needed)*	Percent of Take
Eastex Crude Company	100.0

RRC USE ONLY
Reviewer's initials. _____
Approval date: _____

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 _____ Signature _____

Name (print) _____ ☐ **Authorized Employee of previous operator** ☐ **Authorized agent of previous operator** *(see instruction G)*

Title _____ 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.

Jill Fowler — Jill Fowler
Name (print) — Signature

Regulatory Analyst — ☒ **Authorized Employee of current operator** ☐ **Authorized agent of current operator** *(see instruction G)*
Title

jill.fowler@Anadarko.com — 1/31/08 — 832.636.1554
E-mail Address (optional) — Date — Phone with area code

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form W-12
(1-1-71)
FOD1296

INCLINATION REPORT
(One Copy Must Be Filed With Each Completion Report)

1 FIELD NAME (as per RRC Records or Wildcat): Haben (Cons. Wolfcamp-Penn Cons.)	2 LEASE NAME: **University 19-27**
3 OPERATOR: **Anadarko Petroleum** Corporation	8 Well Number: **1**
4 ADDRESS: P.O. Box 1330, Houston, TX, 77251	9 RRC Identification Number (Gas completions only)
5 LOCATION (Section, Block, and Survey): Sec. 27, Blk 19, Ltr	10 County: Ward
	6 RRC District: 8
	7 RRC Lease Number (Oil completions only)

RECORD OF INCLINATION

*11 Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13 Angle of Inclination (Degrees)	14 Displacement per Hundred Feet (Sine of Angle x100)	15 Course Displacement (feet)	16 Accumulative Displacement (feet)
739	7.39	1.57	2.74	20.24	20.24
1230	4.91	0.60	1.05	5.15	25.39
1709	4.79	1.28	2.23	10.68	36.07
2736	10.27	0.84	1.47	15.09	51.16
3209	4.73	1.07	1.87	8.84	60.00
3708	4.99	2.82	4.92	24.55	84.55
3962	2.54	1.48	2.58	6.55	91.10
4213	2.51	1.65	2.88	7.22	98.32
4713	5.00	2.68	4.68	23.40	121.72
5174	4.61	1.01	1.76	8.11	129.83
5659	4.85	0.80	1.40	6.79	136.62
6639	9.80	1.60	2.79	27.34	163.96
7619	9.80	0.28	0.49	4.80	168.76
8102	4.83	0.76	1.33	6.42	175.18
9058	9.56	0.35	0.61	5.83	181.01

If additional space is needed, use the reverse side of this form.

17 Is any information shown on the reverse side of this form? ☑ yes ☐ no

18. Accumulative total displacement of well bore at total depth of **12,022** feet = **227.23** feet

*19. Inclination measurements were made in - ☐ Tubing ☐ Casing ☐ Open hole ☑ Drill Pipe

20 Distance from surface location of well to the nearest lease line ..... 1320 feet

21 Minimum distance to lease line as prescribed by field rules ..... 1320 feet

22 Was the subject well at any time intentionally deviated from the vertical in any manner whatsoever? no

(If the answer to the above question is "yes," attach written explanation of the circumstances.)

INCLINATION DATA CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on both sides of this form and that such data and facts are true, correct, and complete to the best of my knowledge. This certification covers all data as indicated by asterisks (*) by the item numbers on this form.

Delores Pouncey
Signature of Authorized Representative

Delores Pouncey
Name of Person and Title (type or print)

Rowan Companies, Inc.
Name of Company

Telephone **(713) 991-6300**
Area Code

OPERATOR CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have personal knowledge of all information presented in this report, and that all data presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers all data and information presented herein except inclination data as indicated by asterisks (*) by the item numbers on this form.

Jill Foster
Signature of Authorized Representative

Jill Foster Regulatory Analyst
Name of Person and Title (type or print)

Anadarko Petroleum Corporation
Operator

Telephone 832/636-7554
Area Code

Railroad Commission Use Only

Approved By _____ Title _____ Date _____

* Designates items certified by company that conducted the inclination surveys

RECORD OF INCLINATION (Continued from reverse side)

*11 Measured Depth (feet)	12 Course Length (Hundreds of feet)	*13 Angle of Inclination (Degrees)	14 Displacement per Hundred Feet (Sine of Angle x100)	15 Course Displacement (feet)	16 Accumulative Displacement (feet)
10053	9.95	0.48	0.84	8.35	189.36
10336	2.83	2.22	3.87	10.95	200.31
11288	9.52	1.33	2.32	22.08	222.39
12022	7.34	0.38	0.66	4.84	227.23

If additional space is needed, attach separate sheet and check here ☐

REMARKS: _____

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum Corp.	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Haley (Luc. Wolfcamp - Penn Cons.)	4247535180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	N/A		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		6-19-07					
13. • Drilled Hole Size		17½"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft.)		-					
16. Setting depth (ft.)		5183'					
17. Number of centralizers used		35					
18. Hrs. Waiting on cement before drill-out		2					
1st Slurry	19. API cement used: No. of sacks	2750					
	Class	C					
	Additives	Remarks #1					
2nd Slurry	No. of sacks	1250					
	Class	C					
	Additives	Remarks #2					
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)	6270					
	Height (ft.)	9026					
2nd	Volume (cu. ft.)	1662.5					
	Height (ft.)	2393					
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)	7932.5					
	Height (ft.)	11419					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?		no					

22. Remarks # 1 2 5%SMS +1.5% R-3+ 1/8#/SK CELLOFLAKE Remarks #2 3/10% R-3

1070

Cementer. Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum Corporation	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Hales (Lwr. Wolfcamp-Penn Cons.)	475-35180	020545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	n/a		1

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						
13. • Drilled Hole Size						
• Est. % wash or hole enlargement						
14. Size of casing (in. O.D.)						
15. Top of liner (ft.)						
16. Setting depth (ft.)						
17. Number of centralizers used						
18. Hrs. Waiting on cement before drill-out						
1st Slurry — 19. API cement used: No. of sacks						
1st Slurry — Class						
1st Slurry — Additives						
2nd Slurry — No. of sacks						
2nd Slurry — Class						
2nd Slurry — Additives						
3rd Slurry — No. of sacks						
3rd Slurry — Class						
3rd Slurry — Additives						
1st — 20. Slurry pumped: Volume (cu. ft.)						
1st — Height (ft.)						
2nd — Volume (cu. ft.)						
2nd — Height (ft.)						
3rd — Volume (cu. ft.)						
3rd — Height (ft.)						
Total — Volume (cu. ft.)						
Total — Height (ft.)						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						

REMARK A 2%CACL2
REMARK B: PUMPED CMT DOWN THE DRILL PIPE THEN DISPLACED WITH 28 FW TURNED OVER TO RIG SO THEY COULD TRY TO SQUEEZE CMT, NO CMT TO SURFACE

1070

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date	7-13-07							
24. Size of hole or pipe plugged (in.)	13 3/8							
25. Depth to bottom of tubing or drill pipe (ft.)	450							
26. Sacks of cement used (each plug)	1000							
27. Slurry volume pumped (cu. ft.)	1350							
28. Calculated top of plug (ft.)								
29 Measured top of plug, if tagged (ft.)								
30. Slurry wt. (lb/gal)	14.8							
31. Type cement	C							

CEMENTER'S CERTIFICATE: I declare under penalties 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.

MIKE MADRID Service Supervisor — Name and title of cementer's representative

BJ Services Company — Cementing Company

Mike Madrid — Signature

P.O. Box 4717 — Address

Odessa, — City,

Texas — State,

79760 — Zip Code

(432) 381-2301 — Tel: Area Code Number

7-13-07 — Date, mo day yr

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.

Jill Fowler — Typed or printed name of operator's representative

Regulatory Analyst — Title

Jill Fowler — Signature

P.O. Box 1330 — Address

Houston, TX 77251 — City, State, Zip Code

832/636-1534 — Tel. Area Code Number

1/31/08 — Date mo. day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

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. Form W-15 should be filed with the following.

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the 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 Where to file. The appropriate Commission District Office for the county in which the well is located

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar All centralizers must meet API specifications

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.

Cementer Fill in shaded areas.
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Anadarko Petroleum Corporation	026572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Haley (Lwr. Wolfcamp-Penn Cons.)	42-475-35180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	n/a		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7/14/07					
13. • Drilled Hole Size		17 1/2"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks	100					
	Class	C					
	Additives	5#/Sk LCM-1					
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)	133					
	Height (ft.)	Remark A					
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)	133					
	Height (ft.)	Remark A					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		No					

Remark A) Set a plug between 4290"- 4475' inside the surface pipe to seal a leak

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum Corp.	020572	8	Ward
5. Field Name (Wildcat or exactly as shown on RRC Records)	**6. API No.**	**7. Drilling Permit No.**	
Haley (Lwr. Wolfcamp-Penn Cons.)	4247535180	626525	
8. Lease Name	**9. Rule 37 Case No.**	**10. Oil Lease/Gas ID No.**	**11. Well No.**
UNIVERSITY 19-27	n/a		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7-15-07					
13. • Drilled Hole Size		17.5					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13.375					
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks	1000	TOP OUT				
	Class	Prem C					
	Additives	2%CACL2					
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)	1340					
	Height (ft.)	1929					
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)	1340					
	Height (ft.)	1929					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		NO					

WE TOP OUT TRU DRILL PIPE AND PERFS@650' NO CMT RETURNS

1070

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum Corp.	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Haley (Lwr. Wolfcamp - Penn Cons.)	4247535180	621545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
UNIVERSITY 19-27	N/A		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7-18-07					
13. • Drilled Hole Size		17.5					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13.375					
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks	500					
	Class	Prem C					
	Additives	2%CACL2					
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)	670					
	Height (ft.)	965					
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)	670					
	Height (ft.)	965					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		NO					

REMARK SQUEEZED HOLES @650' PACKER SET@482'

1070

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Anadarko Petroleum (Corporation)	02572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Hatley (Lwr. Wolfcamp-Penn (ons.)	42-475-35180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	n/a		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date		7/19/07					
13. • Drilled Hole Size		17½"					
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)		13 3/8"					
15. Top of liner (ft.)							
16. Setting depth (ft.)							
17. Number of centralizers used							
18. Hrs. Waiting on cement before drill-out							
1st Slurry	19. API cement used: No. of sacks	300					
	Class	C					
	Additives	Remark A					
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)	555					
	Height (ft.)	Remark A					
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)	555					
	Height (ft.)	Remark B					
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?		Yes					

Remark A) 10% A-10 + 2% CACL2 + 5#/Sk LCM-1 + 1/8#/Sk Cello Flake
Remark B) Top Out via the annulas at 210' with 300 Sacks of cement, bring cement to surface

Cementer Fill in shaded areas
Operator Fill in other items

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Haley (Lwr Wolfcamp-Penn Cons.)	42-475-35180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	n/a		1

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date			07-23-2007				
13. • Drilled Hole Size			12 1/4"				
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)			10 3/4"				
15. Top of liner (ft.)			-				
16. Setting depth (ft.)			12,547'				
17. Number of centralizers used			12				
18. Hrs. Waiting on cement before drill-out			8.5				
1st Slurry	19. API cement used: No. of sacks		603				
	Class		C				
	Additives		REMARKS A				
2nd Slurry	No. of sacks		668				
	Class		H				
	Additives		12/10%FL-62 1/10%ASA-301				
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)		3135				
	Height (ft.)		16661				
2nd	Volume (cu. ft.)		794				
	Height (ft.)		4219				
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)		3929				
	Height (ft.)		20880				
21. Was cement circulated to ground surface (or bottom of cellar) outside casing ?			NO				

Remarks A SX C+20#/SK CSE-2+4 %MPA-1+5/10%FL-52A+1%BA-10+4%SMS+5%A-10+0 15%ASA-301+3.5%R-21+5#/SK LCM-1

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev. 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
ANADARKO Petroleum Corp.	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Hafer (Lwr. Wolfcamp-Penn Cons.)	42-475-35180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
UNIVERSITY 19-27	n/a		1

CASING CEMENTING DATA:	SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
			Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date						
13. • Drilled Hole Size						
• Est. % wash or hole enlargement						
14. Size of casing (in. O.D.)						
15. Top of liner (ft.)						
16. Setting depth (ft.)						
17. Number of centralizers used						
18. Hrs. Waiting on cement before drill-out						
1st Slurry — 19. API cement used: No. of sacks						
1st Slurry — Class						
1st Slurry — Additives						
2nd Slurry — No. of sacks						
2nd Slurry — Class						
2nd Slurry — Additives						
3rd Slurry — No. of sacks						
3rd Slurry — Class						
3rd Slurry — Additives						
1st — 20. Slurry pumped: Volume (cu. ft.)						
1st — Height (ft.)						
2nd — Volume (cu. ft.)						
2nd — Height (ft.)						
3rd — Volume (cu. ft.)						
3rd — Height (ft.)						
Total — Volume (cu. ft.)						
Total — Height (ft.)						
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?						

Set Bridge Plug at 12,439'
Sidetracked well

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing date	8-12-07							
24 Size of hole or pipe plugged (in)								
25. Depth to bottom of tubing or drill pipe (ft)								
26 Sacks of cement used (each plug)	150							
27. Slurry volume pumped (cu ft.)	144							
28. Calculated top of plug (ft.)	12439							
29. Measured top of plug, if tagged (ft)								
30. Slurry wt. (lb/gal)	17.3							
31. Type cement	H							

CEMENTER'S CERTIFICATE: I declare under penalties 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.

RON GUNDY Service Supervisor — Name and title of cementer's representative

BJ Services Company — Cementing Company

Signature

P.O. Box 4717 — Address

Odessa, — City,

Texas — State,

79760 — Zip Code

(432) 381-2301 — Tel: Area Code Number

08-12-07 — Date: mo. day yr.

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 re true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Jill Fowler — Typed or printed name of operator's representative

Regulatory Analyst — Title

Jill Fowler — Signature

P.O Box 1330 — Address

Houston, TX 77251 — City, State, Zip Code

832/636-1554 — Tel.. Area Code Number

1/31/08 — Date: mo day yr.

Instructions to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide Rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion), and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c) .

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 Form W-15 should be filed with the following.

- An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rates;
- Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- Form W-3, Plugging Record, unless the 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. Where to file. The appropriate Commission District Office for the county in which the well is located.

C. Surface Casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Committee.

D. Centralizers. Surface Casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In Non-deviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.

E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13 In a written application, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.

F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rule 13 (3) and (4).

G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three foot below the ground surface All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1,000 feet of depth from the ground surface to the bottom of the plug

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations, 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.

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

RAILROAD COMMISSION OF TEXAS
Oil and Gas Division

Form W-15
Cementing Report
Rev 4/1/83
483-045

1. Operator's Name (As shown on Form P-5, Organization Report)	2. RRC Operator No.	3. RRC District No.	4. County of Well Site
Anadarko Petroleum Corporation	020572	8	Ward

5. Field Name (Wildcat or exactly as shown on RRC Records)	6. API No.	7. Drilling Permit No.
Haley (Lwr. Wolfcamp-Penn Cons.)	42-475-35180	626545

8. Lease Name	9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well No.
University 19-27	n/a		**1**

CASING CEMENTING DATA:		SURFACE CASING	INTER-MEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				Single String	Multiple Parallel Strings	Tool	Shoe
12. Cementing Date				10-6-07			
13. • Drilled Hole Size				8 3/4"			
• Est. % wash or hole enlargement							
14. Size of casing (in. O.D.)				5" 5 1/2"			
15. Top of liner (ft.)				-			
16. Setting depth (ft.)				17,848'			
17. Number of centralizers used				50			
18. Hrs. Waiting on cement before drill-out				6			
1st Slurry	19. API cement used: No. of sacks			2165			
	Class			H			
	Additives			Remark A			
2nd Slurry	No. of sacks						
	Class						
	Additives						
3rd Slurry	No. of sacks						
	Class						
	Additives						
1st	20. Slurry pumped: Volume (cu. ft.)			3399.05			
	Height (ft.)			13457			
2nd	Volume (cu. ft.)						
	Height (ft.)						
3rd	Volume (cu. ft.)						
	Height (ft.)						
Total	Volume (cu. ft.)			3399.05			
	Height (ft.)			13457			
21. Was cement circulated to ground surface (or bottom of cellar) outside casing?				No			

Remark A) 35% S8C + 33#/SK Hematite + 5/10% FL-63 + 5/10% BA-11 + 1 2% CD-32 + 7/10% SMS + 5% ASA-301 + .65% R-21

Form P-15
(5-5-71)
EAG0897

STATEMENT OF PRODUCTIVITY OF ACREAGE ASSIGNED TO PRORATION UNITS

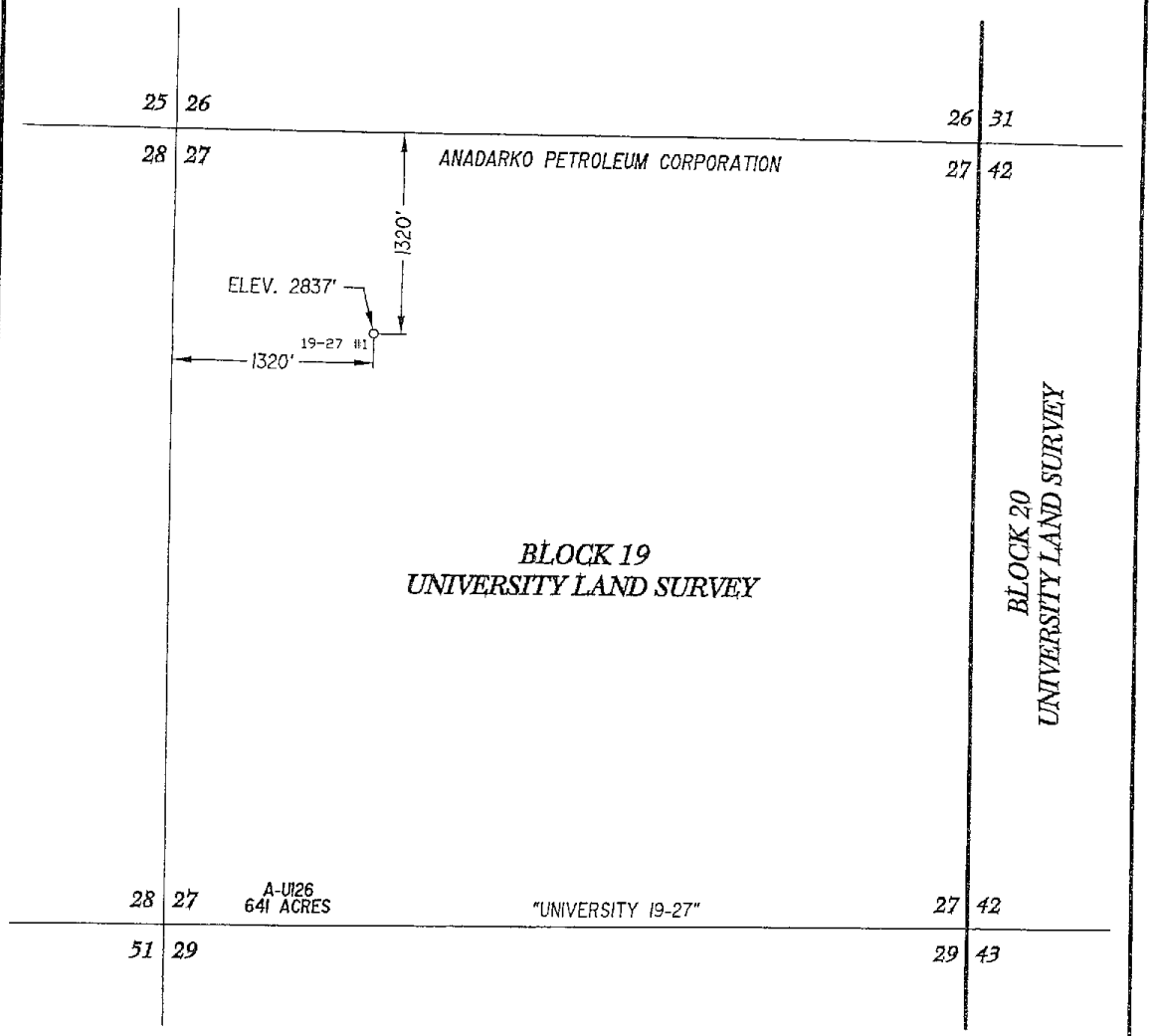
The undersigned states that he is authorized to make this statement, that he has knowledge of the facts concerning the Anadarko Petroleum Corporation (OPERATOR), University 19-27 (ID N/A) (LEASE), No. 1 (WELL); that such well is completed in the Haley (Lwr. Wolfcamp-Penn Cons.) Field, Ward County, Texas and that the acreage claimed, and assigned to such well for proration purposes as authorized by special rule and as shown on the attached certified plat embraces 641.0 acres which can reasonably be considered to be productive of hydrocarbons.

- CERTIFICATE -

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge

Date 1/31/08 Signature

Telephone 832 (AREA CODE) 636-1554 Title Regulatory Analyst



LEGEND

- EXIST. PRODUCING WELL
- PROPOSED DRILL WELL
- PLUGGED & ABANDONED WELL
- EXIST. INJECTION WELL
- EXIST. INJECTION WELL P&A'd
- FND. U. L. MONUMENT

1000' 0 1000'

SCALE : 1" = 1000'

LCA JOB NO: 2006-005-198

STATE OF TEXAS
REGISTERED
MARCUS L. HOSTAS
5643
PROFESSIONAL
LAND SURVEYOR

THIS WELL LOCATION SHOWN ON THIS PLAT REPRESENTS AN ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION TO THE BEST OF MY KNOWLEDGE AND BELIEF.

LCA *Landgraf, Crutcher and Associates, Inc.*
TRANSPORTATION ENVIRONMENTAL CIVIL ENGINEERS ODESSA, TEXAS
Phone. # (432) 332-5058 Fax # (432) 332-8812

RAILROAD COMMISSION PERMIT PLAT
ANADARKO PETROLEUM CORPORATION
UNIVERSITY 19-27 #1; 1320' F.N.L., 1320' F.W.L.
SECTION 27, BLOCK 19; UNIVERSITY LAND SURVEY
WARD COUNTY, TEXAS

GEODETIC POSITION:	NAD83		
LATITUDE:	N 31°38'45.0"	LONGITUDE:	W 103°21'48.0"
STATE PLANE COORDINATES:			
NORTH:	10575180	EAST:	1353814
GEODETIC POSITION:	NAD27		
LATITUDE:	N 31°38'45.0"	LONGITUDE:	W 103°21'46.3"
STATE PLANE COORDINATES:			
NORTH:	732604	EAST:	1057349

BEARINGS, DISTANCES, ACREAGE AND COORDINATES ARE GRID, RELATIVE TO THE TEXAS COORDINATE SYSTEM, CENTRAL ZONE, 1927 NAD.

DATE: 08-31-2006

SCALE: 1" = 1000'

DRAWN BY: S.O.B.

DISTANCE TO NEAREST TOWN IN Co.: 20.5± MILES SW OF WINKLER, TX

NORTH AMERICAN DATUM OF: NAD83

ZONE: TCZ STATE: TX