

Type or print only

RAILROAD COMMISSION OF TEXAS  
Oil and Gas Division

U.T. LANDS

JAN 28 2010

Form W-2  
Rev. 4/1/83  
DBC1297

API No. 42- 103-31353				7. RRC District No. 08	
<b>Oil Well Potential Test, Completion or Recompletion Report, and Log</b>					
1. FIELD NAME (as per RRC Records or Wildcat) McElroy		2. LEASE NAME North McElroy Unit		8. RRC Lease No. 20377	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) Apache Corporation		RRC Operator No. 027200		9. Well No. 3419	
4. ADDRESS 6120 S. Yale Ave., Ste. 1500, Tulsa, OK 74136-4224				10. County of well site Crane	
5. If Operator has changed within last 60 days, name former operator				11. Purpose of filing	
6a. Location (Section, Block, and Survey) Sec.34,Blk.30,University Lands Survey				Initial Potential <input type="checkbox"/>	
6b. Distance and direction to nearest town in this county. 3 miles NW from Crane				Retest <input type="checkbox"/>	
12. If workover or reclass, give former field (with reservoir) & gas ID or oil lease no. FIELD & RESERVOIR				Reclass <input type="checkbox"/>	
GAS ID or OIL LEASE #				Oil - O Gas - G	
WELL NO.				Well record only <input checked="" type="checkbox"/> (explain in Remarks)	
13. Type of electric or other log run				14. Completion or recompletion date	

## SECTION I: POTENTIAL TEST DATA IMPORTANT: Test should be for 24 hours unless otherwise specified in field rules.

15. Date of test		16. No. of hours tested		17. Production method (Flowing, Gas Lift, Jetting, Pumping-- Size & Type of pump)		18. Choke Size	
19. Production during Test Period		Oil - BBLS		Gas -- MCF		Water - BBLS	
20. Calculated 24-Hour Rate		Oil - BBLS		Gas -- MCF		Water -- BBLS	
21. Was swab used during this test?		Yes <input type="checkbox"/> No <input type="checkbox"/>		22. Oil Produced prior to test (New & Reworked wells)		23. Injection Gas--Oil Ratio	
REMARKS Updating well record to reflect new tubing. Packer set at 2879'.							

INSTRUCTIONS: File an original and one copy of the completed Form W-2 in the appropriate RRC District Office within 30 days after completing a well and within 10 days after a potential test. If an operator does not properly report the results of a potential test within the 10-day period, the effective date of the allowable assigned to the well will not extend back more than 10 days before the W-2 was received in the District Office. (Statewide Rules 16 and 51) To report a completion or recompletion, fill in both sides of this form. To report a retest, fill in only the front side.

## WELL TESTER'S CERTIFICATION

I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test by observation of (a) meter readings or (b) the top and bottom gauges of each tank into which production was run during the test. I further certify that the potential test data shown above is true, correct, and complete, to the best of my knowledge.

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 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.

Sharon Caskey

Typed or printed name of operator's representative

(918) 491-4971

11 / 19 / 2009

Telephone: Area Code Number

Date: mo. day year

Production Tech

Title of Person

Signature

Sharon Caskey

SECTION II DATA ON WELL COMPLETION AND LOG (Not Required on Retest)									
24. Type of Completion:					25. Permit to Drill, Plug Back or Deepen				
New Well <input type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input checked="" type="checkbox"/>					DATE 08/16/1976 PERMIT NO.				
26. Notice of Intention to Drill this well was filed in Name of					Rule 37 CASE NO.				
Getty Oil Company					Exception				
27. Number of producing wells on this lease in this field (reservoir) including this well					Water Injection PERMIT NO.				
28. Total number of acres in this lease					Permit 08/21/1979 F1459				
11,612					Salt Water Disposal PERMIT NO.				
29. Date Plug Back, Deepening, WorkOver or Drilling Operations:					Permit				
Commenced					Other PERMIT NO.				
Completed									
30. Distance to nearest well, Same Lease & Reservoir									
660' East									
31. Location of well, relative to nearest lease boundaries of lease on which this well is located					1650 Feet From West Line and 1650 Feet from North Line of the Sec.34, Blk.30, North McElroy Unit Lease				
32. Elevation (DF, RKB, RT, GR, ETC.)					33. Was directional survey made other than inclination (Form W-12)?				
2593' GL					<input type="checkbox"/> Yes <input type="checkbox"/> No				
34. Top of Pay		35. Total Depth		36. P.B. Depth		37. Surface Casing Determined by:		Recommendation of T.D.W.R.	
2976'		3375'		3360'		Field <input checked="" type="checkbox"/> Rules		<input type="checkbox"/> Dt. of Letter	
						Railroad Commission (Special)		<input type="checkbox"/> Dt. of Letter	
38. Is well multiple completion?		39. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No.				GAS ID or OIL LEASE #		Oil-O Gas-G	
No		FIELD & RESERVOIR						WELL #	
41. Name of Drilling Contractor									
Hillin Drilling Company									
								42. Is Cementing Affidavit Attached?	
								<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
43. 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.		
8-5/8"	20#	522'		"H" 275 sx	11"	Circ	325		
5-1/2"	14#	3370'		"C" 540 sx	7-7/8"	1600	1243		

44. LINER RECORD				
Size	Top	Bottom	Sacks Cement	Screen
				-
				-

45. TUBING RECORD			46. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2-3/8"	2879'	2879'	From 3006'	To 3310' (8 Perfs) 10/1976
			From 2963'	To 3310' (6 Perfs) 01/04/1984
			From	To
			From	To

47. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
Depth Interval	Amount and Kind of Material Used	
3006' - 3010'	10/1976 - 2000 gal 20% acid	
2963' - 3310'	1/4/1984 - 2000 gal 50% acid	
-		
-		

48. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth

REMARKS \_\_\_\_\_

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\_\_\_\_\_

Cementor: Fill in shaded areas  
Operator: Fill in other items

Form W-15  
Cementing Report

# RAILROAD COMMISSION OF TEXAS

## Oil and Gas Division

1. Operator's Name (As Shown on Form P-6, Organization Report) <b>APACHE CORPORATION</b>		2. RRC Operator No.	3. RRC District No.	4. County of Well Site <b>CRANE</b>
5. Field Name (Wildcat or Exactiv as Shown on RRC Records)		6. API No.		7. Drilling Permit No.
8. Lease Name <b>MCROY</b>		9. Rule 37 Case No.	10. Oil Lease/Gas ID No.	11. Well Number <b>3419</b>

CASING CEMENTING DATA:		SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS	
				SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE
12. Cementing Date							
13. *Drilled Hole Size							
*Ext. % 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 >						
	Class >						
	Additives >						
2nd Slurry	No. of Sacks >						
	Class >						
	Additives >						
3rd Slurry	No. of Sacks >						
	Class >						
	Additives >						
1st	20. Slurry Pumped: Volume (cu.ft.) >						
	Height (ft) >						
2nd	Volume (cu.ft.) >						
	Height (ft) >						
3rd	Volume (cu.ft.) >						
	Height (ft) >						
Total	Volume (cu.ft.) >						
	Height (ft) >						
21. Was Cement Circulated to Ground Surface (or Bottom of Casing) Outside Casing?							
22. Remarks							

OVER ➡

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23. Cementing Date	10/7/09							
24. Size of Hole or Pipe Plugged (in)	5 1/2" 14#							
25. Depth to Bottom of Tubing or Drill Pipe (ft)	3017'							
26. Sacks of Cement Used (each plug)	100							
27. Slurry Volume Pumped (cu.ft.)	132							
28. Calculated Top of Plug (ft)	3017'							
29. Measured Top of Plug, if Tagged (ft)								
30. Slurry Wt. (lbs/gal)	14.8							
31. Type Cement	C 2% CACL2							

**CEMENTERS 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.

**CORY REDDING CEMENTER**

Name and Title of Cementer's Representative

**RISING STAR SERVICES LP.**

Cementing Company

Signature

**P.O. BOX 61193 MIDLAND TX. 79711**

Address City State Zip Code

**(432) 617-0114**

Tel: Area Code Number

**October 7, 2009**

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.

**Apache Corporation**

Typed or Printed Name of Operator's Representative

**Production Tech**

Title

**Sharon Caskey**

Signature

**61205 Yale Ave #1500, Tulsa OK 74136**

Address City State Zip Code

**918-491-4971**

Tel: Area Code Number

**11/19/2009**

Date: Mo. Day Yr.

### Instruction 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 rules;
- \* 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 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 Commission.

**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 nondeviated 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 applications, 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 12 (b) (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 feet 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 1000 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.