

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

CONFIDENTIAL

ORIGINAL

Operator: License # 4549
Name: ANADARKO PETR. CORP.
Address: 701 S. TAYLOR STREET, SUITE 400
City/State/Zip: AMARILLO, TEXAS 79101
Purchaser: NCRA
Operator Contact Person: JOHN VIGIL
Phone: (806) 457-4600
Contractor: Name: MURFIN DRILLING CO., INC.
License: 30606
Wellsite Geologist: MIKE DODGE

API No. 15 - 189-22440-0000
County: STEVENS
AP W/2 E/2 E/2 NW Sec. 3 Twp. 32 S. R. 38 East West
1320 feet from S (N) (circle one) Line of Section
2250 feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE (NW) SW
Lease Name: LEONARD "B" Well #: 4
Field Name: WILDCAAT
Producing Formation: ST. LOUIS

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enh./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

<u>4-30-2003</u>	<u>5-8-2003</u>	<u>5-17-2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

Elevation: Ground: 3184 Kelly Bushing: _____
Total Depth: 6275 Plug Back Total Depth: 6218
Amount of Surface Pipe Set and Cemented at 1774 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

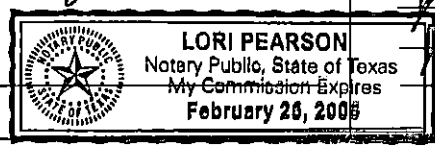
Drilling Fluid Management Plan API W 7-22-03
(Data must be collected from the Reserve Pit)
Chloride content 1100 ppm Fluid volume 700 bbls
Dewatering method used _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: L. Pearson
Title: Engr. Tech III Date: 6-24-03
Subscribed and sworn to before me this 24 day of June, 2003

Notary Public: Lori Pearson
Date Commission Expires: 2/26/05



KCC Office Use ONLY

Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

Operator Name: ANADARKO PETR. CORP. Lease Name: LEONARD "B" Well #: 4

Sec. 3 Twp. 32 S R 38 East West County: STEVENS

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed; flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E. Logs Run:

CBL, DIL, CNL-LDT, ML, SONIC.

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
CHASE	2475	709
COUNCIL GROVE	2813	371
B/HHEEBNER	4035	-851
MARMATON	4808	-1624
MORROW	5486	-2302
STE. GENEVIEVE	6006	-2822
ST. LOUIS	6110	-2926

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	21.8	1774	P+MC/P+	425/125	3%CC, 1%FWCA, 1/2 PPS FC/2%CC, 1/4PPS FC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6283	50/50 POZ	25/185	10% SALT, 6% HALAD 322, 1/4PPS FC/SAME.

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
6	6139-46.	ACID: 4500 GAL 15% HCL.	6139-46.

TUBING RECORD	Size <u>2 7/8"</u>	Set At <u>6030</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr. <u>6-2-2003</u>	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
-----------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Estimated Production Per 24 Hours	Oil Bbls. <u>325</u>	Gas Mcf <u>650</u>	Water Bbls.	Gas-Oil Ratio <u>2000</u>	Gravity
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Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 6139-46.

HALLIBURTON JOB SUMMARY		SALES ORDER NUMBER 2424852	TICKET DATE 05/01/03
REGION Central Operations	NWA / COUNTRY Mid Continent/USA	BDA / STATE MC/Ks	COUNTY STEVENS
MU ID / EMPL # MCLI 0110 / 198516	H.E.S. EMPLOYEE NAME JASON CLEMENS	PSL DEPARTMENT Cement	ORIGINAL
LOCATION LIBERAL	COMPANY ANADARKO PETROLEUM CORPORA	CUSTOMER REP / PHONE STEVE BARTEL	
TICKET AMOUNT \$10,092.38	WELL TYPE 01 Oil	AP/UWI #	
WELL LOCATION HUGOTON	DEPARTMENT ZI	SAP BOMB NUMBER 7521	Cement Surface Casing
LEASE NAME LEONARD	Well No. B-4	SEC / TWP / RNG 3 - 32S - 38W	HES FACILITY (CLOSEST TO WELL SITE) LIBERAL, KS

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HR	HR	HR	HR
Clemens, A 198516	4.0			
Cochran, M 217398	4.0			
De La Torre, A 259520	4.0			
Hartless, C 280598	4.0			

H.E.S. UNIT #S / (R/T MILES)	R/T MILES	R/T MILES	R/T MILES	R/T MILES
421269	100			
10251403	100			
54225/10011277	55			
54029/10011276	55			

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	5/1/2003	5/1/2003	5/1/2003	5/1/2003
Time	930	1330	1550	1715

Type and Size	Qty	Make
Float Collar		HES
Float Shoe		
Centralizers	4	
Top Plug	1	
HEAD	1	
Limit clamp		
Weld-A	1	
Guide Shoe	1	
BTM PLUG		

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	N	24.0	8 5/8		0	1,786	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			12 1/4				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials		
Mud Type	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/1	4.0	5/1	2.0	Cement Surface Casing
Total	4.0	Total	2.0	

Ordered	Hydraulic Horsepower	Used
Treating	Average Rates in BPM	Overall
Feet 44	Cement Left in Pipe	SHOE JOINT
	Reason	

Cement Data				Additives			W/Rq.	Yield	Lbs/Gal
1	425	MIDCON C		3% CC - 1/2# FLOCELE - .1% FWCA			17.98	2.94	11.40
2	125	PREM PLUS		2% CC - 1/4# FLOCELE			6.30	1.34	14.80
3									
4									

Summary					
Circulating Breakdown	Displacement	MAXIMUM	Reflush: BBI	5.00	Type: FRESH
Lost Returns-Y	Lost Returns-N		Load & Bkdn: Gal - BBI		Pad:Bbl - Gal
Cmt Rtm#Bbl	Actual TOC		Excess /Return BBI		Calc. Disp Bbl
Average	Frac. Gradient		Calc. TOC:		Actual Disp.
Shut In: Instant	5 Min.	15 Min.	Treatment: Gal - BBI		Disp:Bbl
			Cement Slurry BBI	253.0	
			Total Volume BBI	369.00	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____ SIGNATURE _____

HALLIBURTON JOB SUMMARY			SALES ORDER NUMBER 2438365	TICKET DATE 05/09/03
REGION Central Operations	INSTRUMENTRY M. ontinent/USA	BDA / STATE MC/Ks	COUNTY STEVENS	
MBU ID / EMPL # MCLI0101 106322	H.E.S. EMPLOYEE NAME Danny McLane	PSL DEPARTMENT Cement	ORIGINAL	
LOCATION LIBERAL CONFIDENTIAL	COMPANY ANADARKO PETROLEUM CORPORA	CUSTOMER REP / PHONE STEVE BARTEL 806-679-3792		
TICKET AMOUNT \$7,061.32	WELL TYPE 01 Oil	APIUMI # KCC	SAP BOMB NUMBER 7523	Cement Production Casing
WELL LOCATION N/Hugoton,Ks	DEPARTMENT Cement	SEC / TWP / RNG 3 - 32S - 38W	RES FACILITY (CLOSEST TO WELL SITE) Liberal Ks	
LEASE NAME LEONARD	Well No. B-4	JUN 24 2003		

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HRS	CONFIDENTIAL	HRS	HRS
McLane, D 106322	7.0			
Tate, N 105953	8.0			
Berumen, E 267804	7.0			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
420995	80			
10251401	80			
10010748 10011278	20			

Form. Name _____ Type: _____
 Form. Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Retainer Depth _____ Total Depth _____

Date	Called Out	On Location	Job Started	Job Completed
	5/9/2003	5/9/2003	5/9/2003	5/9/2003
Time	0800	1100	1645	1800

Tools and Accessories

Type and Size	Qty	Make
Float Collar SS II 5 1/2	1	H
Float Shoe SS II 5 1/2	1	
Centralizers 5 1/2	11	O
Top Plug 5 1/2	1	
HEAD 5 1/2	1	W
Limit clamp 5 1/2	1	
Weld-A	1	C
Guide Shoe		
BTM PLUG		O

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5#	5 1/2"		0	6,283.2	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			7 7/8"				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

Mud Type	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb
Prop. Type	Size	Lb
Acid Type	Gal.	%
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		
Other		

Hours On Location		Operating Hours		Description of Job
Date	Hours	Date	Hours	
5/9	7.0	5/9	1.0	Cement Production Casing
Total	7.0	Total	1.0	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM Disp.	Overall
Feet 45.02	Cement Left in Pipe Reason	SHOE JOINT

Cement Data

Stage	Sacks	Cement	Bulk/Sks	Additives	W/Rq.	Yield	Lbs/Gal
1	25	50/50 POZ H	Bulk	10% SALT - .6% HALAD-322 - 1/4# FLOCELE	40.45	6.07	10.00
2	135	50/50 POZ H	Bulk	10% SALT - .6% HALAD-322 - 1/4# FLOCELE	5.58	1.26	14.40
3	25	50/50 POZ H	Bulk	10% SALT - .6% HALAD-322 - 1/4# FLOCELE	5.58	1.26	14.40
4							

Summary

Circulating Breakdown	Displacement	Preflush: BBI	5.00	Type: fresh water
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Cmt Rtrn#Bbl	Actual Returns	Excess /Return BBI		Calc.Disp Bbl 148.4
Average	Actual TOC	Calc. TOC:		Actual Disp. 148.5
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI		Disp:Bbl
	5 Min. 15 Min	Cement Slurry BBI	27, 30	5.5 Rat & Mouse Hole
		Total Volume BBI	#VALUE!	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT
 CUSTOMER REPRESENTATIVE _____

SIGNATURE _____

PRPA 040305

6-24-04

ANADARKO PETROLEUM CORPORATION

PHONE 806-457-4600 • 701 S. TAYLOR ST. • SUITE 400 • AMARILLO, TEXAS 79101



RECEIVED

JUN 26 2003

KCC WICHITA

Release
AUG 02 2004
From
Confidential

June 24, 2003

CONFIDENTIAL

Kansas Corporation Commission
Conservation Division
Wichita State Office Building
130 South Market, RM 2078
Wichita, Kansas 67202

KCC

JUN 24 2003

CONFIDENTIAL

Attn: Sharon Ahtone

Re: Leonard "B" No. 4
Section 3-32S-38W
Stevens County, Kansas

Dear Ms. Ahtone:

Attached in triplicate is the Affidavit of Completion (ACO-1 Well History), a set of well logs and cementing tickets for the above referenced well.

It is requested that this information remain confidential for a period of one year.

If you have any questions, please advise.

Very truly yours,

L. Marc Harvey
Engineering Technician III
LMH

Enclosures

cc: AWF
WI Owners
JTC