

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 175-206080001
County SEWARD
NW - SE - SW - NE Sec. 27 Twp. 34 Rge. 34 X E

Operator: License # 4549

2062 Feet from NX (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

1964 Feet from EX (circle one) Line of Section

Address P. O. BOX 351

Footages Calculated from Nearest Outside Section Corner:

City/State/Zip LIBERAL, KANSAS 67905-0351

NE SE, NW or SW (circle one)

Purchaser: NATIONAL COOPERATIVE REFINING ASSOCIATION

Lease Name LENEHAN "A" Well # 1

Operator Contact Person: DAVID W. KAPPLE

Field Name ARCHER

Phone (316) 624-6253

Producing Formation ST. LOUIS

Contractor: Name: BIG "A" DRILLING

Elevation: Ground 2912.7 KB _____

License: 31572

Total Depth 6615 PBTB 6610

Wellsite Geologist: _____

Amount of Surface Pipe Set and Cemented at 1618* Feet

Designate Type of Completion

*Orig. Completion

X New Well X Re-Entry _____ Workover

Multiple Stage Cementing Collar Used? _____ Yes X No

X Oil _____ SWD _____ SLOW _____ Temp. Abd.

If yes, show depth set _____ Feet

_____ Gas _____ ENHR _____ SIGW

If Alternate II completion, cement circulated from _____

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

feet depth to _____ w/ _____ sx cmt.

If Workover:

Drilling Fluid Management Plan Re-Entry, 7-21-98 U.C.
(Data must be collected from the Reserve Pit)

Operator: ANADARKO PETROLEUM CORPORATION

Chloride content 8500 ppm Fluid volume 700 bbls

Well Name: LENEHAN "A" NO. 1

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Comp. Date 3/17/82 Old Total Depth 6600

Location of fluid disposal if hauled offsite:

X Deepening _____ Re-perf. _____ Conv. to Inj/SWD

Operator Name _____

_____ Plug Back _____ PBTB

Lease Name _____ License No. _____

_____ Commingled _____ Docket No. _____

_____ Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

_____ Dual Completion _____ Docket No. _____

County _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

5-4-98 5-6-98 5-26-98

Spud Date Date Reached TD Completion Date

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 on 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.

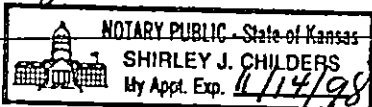
Signature L. Marc Harvey
Title DRILLING TECHNICAL ASSISTANT Date 7-6-98

Subscribed and sworn to before me this 6th day of July

19 98

Notary Public Shirley J. Childers

Date Commission Expires _____



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC _____ SWD/Rep _____ NGPA
_____ KGS _____ Plug _____ Other (Specify)

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name LENEHAN "A" Well # 1

Sec. 27 Twp. 34 Rge. 34 East West County SEWARD

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

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: SBT-CCL-GR.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2642	
COUNCIL GROVE	2992	
TORONTO	4326	
LANSING	4438	
MARMATON	5166	
MORROW	5812	
CHESTER	6122	
STE. GENEVIEVE	6458	
ST. LOUIS	6538	

CASING RECORD

New 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
PRODUCTION	7-7/8"	5-1/2"	15.5	6615	50/50 POZ/ 50/50 POZ.	25/140	.75% HALAD 322, 10% SALT, %SK FLC/ 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
4	6556-6578.	ACID: 3000 GAL 20% HCL.	6556-6578

TUBING RECORD	Size 2 3/8"	Set At 6593	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 5-30-98 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 7 Bbls.	Gas 10 Mcf	Water 48 Bbls.	Gas-Oil Ratio 1429	Gravity 26.5
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole, Perf. Dually Comp. Commingled Other (Specify) _____ Production Interval 6556-6578 (OA)



ORIGINAL

JOB SUMMARY

ORDER NO. 70009

REGION North America		NW/COUNTRY Mid-Cast USA		TICKET # 382858	TICKET DATE 5-6-98
MBU ID / EMP # L10110 H3115		EMPLOYEE NAME Nick Kerbe		BDA / STATE Ks	COUNTY Seward
LOCATION Liberal		COMPANY Anadarko Petroleum Corp		PSL DEPARTMENT Z1	
TICKET AMOUNT \$9231.43		WELL TYPE 02		CUSTOMER REP / PHONE Ji Stuck	
WELL LOCATION Liberal		DEPARTMENT Cementing		API / UWI # 15-175-206080001	
LEASE / WELL # Lebanon A-1		SEC / TWP / RNG		JOB PURPOSE CODE 035	

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Kerbe H3115							
R. Elwood D4360							
G. Humphries H4692							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420045	25						
52447/75496	25						
52823/6610							

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

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar Insert	1	H.O.
Float Shoe Filltube	1	
Guide Shoe		
Centralizers S-4	7	
Bottom Plug		
Top Plug S-W	1	GO
Head		
Packer		
Other		

MATERIALS

Treat Fluid	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		

DATE TIME	CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	5-6-98 1100	5-6-98 1400	5-6-98	5-6-98

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5 1/2	0	6615	3000
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
5-6-98	7 hrs	5-6-98	1 hrs	035
TOTAL	7 hrs	TOTAL	1 hr	

HYDRAULIC HORSEPOWER
 ORDERED _____ Avail. _____ Used _____
 TREATED _____ AVERAGE RATES IN BPM _____ Overall _____
 FEET **5'** CEMENT LEFT IN PIPE _____ Reason **shjt**

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Seal	25	50/50 Per(A)	B	1.75% Halad-322, 10% Salt, 4% Floccle	5.97	10
Trail	140	50/50 Per(A)	B	1.75% Halad-322, 10% Salt, 4% Floccle	1.28	14.4

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 158661
Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 58661
Total Volume Gal - BBI _____

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____
THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____

JOB LOG

ORDER NO. 70006

TICKET #	382858	TICKET DATE	5-6-98
BDA / STATE	Ks.	COUNTY	Seward
PSL DEPARTMENT	ZI	CUSTOMER REP / PHONE	Jr. Stuck
API / UWI #	15-175-206080001	JOB PURPOSE CODE	035

REGION	North America	NWA/COUNTRY	MidCont USA.
MBU ID / EMP #	L10110 H3115	EMPLOYEE NAME	Nick Karbe
LOCATION	Liberal	COMPANY	Anadarko Pet. Corp
TICKET AMOUNT	\$9231.43	WELL TYPE	02
WELL LOCATION	Liberal Ks	DEPARTMENT	cementing
LEASE / WELL #	Leachan A-1	SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS)	HRS
N. Karbe H3115							
B. Edward D4360							
G. Humphries H9692							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100							called out on loc
	1400							Held safety mtg set up Trks
								rig laying D.C.
	1600							start F.F.
	1815							Drop Ball
	1830							break circ
	1854	4						start Pre-flushes 8, 10, 8
	1901	6						start Serv. cont 253ks 10 #
	1907	6						start Tail cont 140ks 14.4 #
	1913							end cont
	1914							wash pump line
	1917							release plug
	1928							start disp
	1946							600 Pump plug did not bump
	1949							rel pres
	1950							Heat held
								rack up Trk
								wash up Trk
								Job complete
								Thank you
								Nick, Robert, Garry

RECEIVED
 STATE DEPARTMENT OF REVENUE
 JUL 1 11 10 AM '98
 CONSERVATION DIVISION
 WICHITA, KANSAS