

ORIGINAL

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

API NO. 15- 067-21504-00-00

County GRANT

1/4 NW - SE - SW - NW Sec. 34 Twp. 29S Rge. 35 X E

Operator: License # 4549

2169 Feet from NW (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

820 Feet from XNW (circle one) Line of Section

Address 701 S. TAYLOR, SUITE 400

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

City/State/Zip AMARILLO, TEXAS 79109

Lease Name HJV LAHEY "A" Well # 1

Purchaser: NCRA

Field Name RYUS E.

Operator Contact Person: JOHN VIGIL

Producing Formation MORROW

Phone (806) 457-4600

Elevation: Ground 2977 KB \_\_\_\_\_

Contractor: Name: MURFIN DRILLING

Total Depth 5700 PBDT 5640

License: 30606

Amount of Surface Pipe Set and Cemented at 1784 Feet

Wellsite Geologist: \_\_\_\_\_

Multiple Stage Cementing Collar Used? Yes X No \_\_\_\_\_

Designate Type of Completion

If yes, show depth set \_\_\_\_\_ Feet

X New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_

Alternate II completion, cement circulated from \_\_\_\_\_

X Oil \_\_\_\_\_ SWD \_\_\_\_\_ SLOW \_\_\_\_\_ Temp. Abd.

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit) See 1 wa

\_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Chloride content 1000 ppm Fluid volume 700 bbls

Operator: \_\_\_\_\_

Dewatering method used \_\_\_\_\_

Well Name: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

\_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Inj/SWD

\_\_\_\_\_ Plug Back \_\_\_\_\_ PBDT

\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_

\_\_\_\_\_ Other (SWD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_

12-06-2002 12-14-2002 12-31-2002

Spud Date Date Reached TD Completion Date

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

County CONSERVATION DIVISION WICHITA, KS

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 ENGINEERING TECHNICIAN III Date 1-22-03

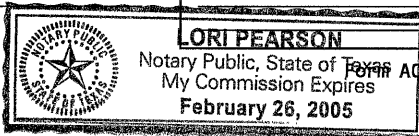
Subscribed and sworn to before me this 22 day of January

Notary Public Lori Pearson

Date Commission Expires 2/26/05

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 HJV LAHEY "A" Well # 1

Sec. 34 Twp. 29S Rge. 35  East County GRANT  
 West

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

Log Formation (Top), Depth and Datums  Sample

Name Top Datum

CHASE 2462  
 COUNCIL GROVE 2790  
 B/HEEBNER 3960  
 MARMATON 4658  
 MORROW 5244  
 STE. GENEVIEVE 5658

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
SURFACE	12-1/4"	8-5/8"	23.0	1784	CLASS C/ CLASS C.	410/100	3% D79, .2% D46, 1/4#/SK CF/2% S1, 1/4#/SK CF.
PRODUCTION	7-7/8"	5-1/2"	15.5	5698	50/50 POZ H/ 50/50 POZ H.	25/155	10% SALT, .6% H322, 1/4#/SK FC/SAME.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
____ Perforate					
____ Protect Casing					
____ Plug Back TD					
____ 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	5344-58.		NONE.
6	5326-36.		NONE.	

TUBING RECORD Size 2-7/8" Set At 5374 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 01-02-2003 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 200 Bbls. Gas 50 Mcf Water 250 Bbls. Gas-Oil Ratio 250 Gravity \_\_\_\_\_

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled \_\_\_\_\_  
 (If vented, submit ACO-18.)  Other (Specify) \_\_\_\_\_

5326-58 (OA)

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RELEASED

FROM

Well: HJV LAHEY A-1		Location (Legal): KCC		Schlumberger Location: Elk City, OK		Job Number: 2002-1757		Job Start: 2002-Dec-08	
Field: SEWARD		Formation Name/Type: JAN 2 2 2003		Bit Size: 12.3 in		Well MD: 1,700 ft		Well TVD: 1,700 ft	
County: SEWARD		State/Province: KANSAS		BHP: psi		BHST: °F		BHCT: °F	
Well Master: 0630462878		API / UWI:		Casing/Liner					
Rig Name		Drilled For: Oil & Gas		Service Via		Depth, ft: 1795.24		Size, in: 8.63	
Offshore Zone		Well Class: New		Well Type: Development		Weight, lb/ft: 24		Grade:	
Drilling Fluid Type		Max. Density: lb/gal		Plastic VI: cp		Depth,		Size, in	
Service Line: Cementing		Job Type: Cem Surface Casing				Weight, lb/ft		Grade	
Max. Allowed Tubing Pressure: 1500 psi		Max. Allowed Ann. Pressure: psi		WellHead Connection: 8 5/8 HS&M		Perforations/Open Hole			
Service Instructions: CEMENT 8 5/8 CASING WITH: 410 SKS CLASS C + 3% D79 + 1/2 PPS D29 + 0.2% D46 100 SKS CLASS C + 2% S1 + 1/4 PPS D29						Top, ft		Bottom, ft	
						spf		No. of Shots	
						Total Interval: ft			
						Diameter: in			
						Treat Down Casing		Displacement: 112 bbl	
						Packer Type		Packer Depth: ft	
						Tubing Vol. bbl		Casing Vol. 114 bbl	
						Annular Vol. 128 bbl		Open Hole Vol. 255 bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job			
Lift Pressure: psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type: Guide		Squeeze Type	
No. Centralizers: 4		Top Plugs: 1		Bottom Plugs:		Shoe Depth: 1795 ft		Tool Type:	
Cement Head Type: Single						Stage Tool Type:		Tool Depth: ft	
Job Scheduled For:		Arrived on Location: 2002-Dec-07 23:45		Leave Location: 2002-Dec-08 4:30		Stage Tool Depth: ft		Tail Pipe Size: in	
						Collar Type: Float		Tail Pipe Depth: ft	
						Collar Depth: 1750 ft		Sqz Total Vol: bbl	
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message RECEIVED KANSAS CORPORATION COMMISSION
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	
2002-Dec-08	2:13	0	0.0	8.49	0	0	0	0	
2002-Dec-08	2:13	0	0.0	8.49	0	0	0	0	JAN 24 2003
2002-Dec-08	2:14	0	0.0	8.49	0	0	0	0	
2002-Dec-08	2:14	-5	0.0	8.49	0	0	0	0	
2002-Dec-08	2:15	-5	0.0	8.49	0	0	0	0	CONSERVATION DIVISION WICHITA, KS
2002-Dec-08	2:15	-5	0.0	8.50	0	0	0	0	
2002-Dec-08	2:16	-5	0.0	8.50	0	0	0	0	Pressure test
2002-Dec-08	2:16	211	5.4	8.47	0	0	0	0	
2002-Dec-08	2:17	211	5.4	8.48	0	0	0	0	
2002-Dec-08	2:17	215	5.4	8.48	0	0	0	0	
2002-Dec-08	2:17								Reset Total, Vol = 5.54 bbl
2002-Dec-08	2:18	206	5.4	8.59	0	0	0	0	
2002-Dec-08	2:18	215	6.7	11.79	0	0	0	0	start lead
2002-Dec-08	2:19	311	6.7	11.14	0	0	0	0	
2002-Dec-08	2:19	311	6.7	11.32	0	0	0	0	
2002-Dec-08	2:20	288	6.7	11.41	0	0	0	0	
2002-Dec-08	2:20	279	6.7	11.76	0	0	0	0	
2002-Dec-08	2:21	270	6.7	11.71	0	0	0	0	
2002-Dec-08	2:21	275	6.7	11.53	0	0	0	0	
2002-Dec-08	2:22	247	6.7	11.21	0	0	0	0	
2002-Dec-08	2:22	256	6.6	11.30	0	0	0	0	
2002-Dec-08	2:23	169	6.7	11.69	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
HJV LAHEY #A-1					02342-Dec-08		ANADARKO PETROLEUM CORPORATION		2205941757
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	
2002-Dec-08	2:23	201	6.7	11.34	0	0	0	0	KCC
2002-Dec-08	2:24	233	6.7	11.15	0	0	0	0	JAN 22 2003
2002-Dec-08	2:24	192	6.7	11.56	0	0	0	0	
2002-Dec-08	2:25	238	6.7	11.51	0	0	0	0	CONFIDENTIAL
2002-Dec-08	2:25	224	6.7	11.18	0	0	0	0	
2002-Dec-08	2:26	215	6.7	11.11	0	0	0	0	
2002-Dec-08	2:26	220	6.7	11.56	0	0	0	0	
2002-Dec-08	2:27	156	6.7	11.38	0	0	0	0	RECEIVED
2002-Dec-08	2:27	211	6.7	11.24	0	0	0	0	KANSAS CORPORATION COMMISSION
2002-Dec-08	2:28	215	6.7	11.30	0	0	0	0	
2002-Dec-08	2:28	215	6.7	11.13	0	0	0	0	JAN 24 2003
2002-Dec-08	2:29	201	6.7	11.11	0	0	0	0	
2002-Dec-08	2:29	215	6.7	11.50	0	0	0	0	
2002-Dec-08	2:30	215	6.7	11.62	0	0	0	0	CONSERVATION DIVISION
2002-Dec-08	2:30	220	6.7	11.52	0	0	0	0	WICHITA, KS
2002-Dec-08	2:31	215	6.7	11.38	0	0	0	0	
2002-Dec-08	2:31	211	6.7	11.47	0	0	0	0	
2002-Dec-08	2:32	215	6.7	11.47	0	0	0	0	
2002-Dec-08	2:32	215	6.7	11.40	0	0	0	0	
2002-Dec-08	2:33	211	6.7	11.38	0	0	0	0	
2002-Dec-08	2:33	206	6.7	11.35	0	0	0	0	
2002-Dec-08	2:34	211	6.7	11.32	0	0	0	0	
2002-Dec-08	2:34	197	6.7	11.27	0	0	0	0	
2002-Dec-08	2:35	174	6.1	10.90	0	0	0	0	
2002-Dec-08	2:35	197	6.7	11.56	0	0	0	0	
2002-Dec-08	2:36	215	6.7	11.66	0	0	0	0	
2002-Dec-08	2:36	211	6.7	11.37	0	0	0	0	
2002-Dec-08	2:37	192	6.7	11.41	0	0	0	0	
2002-Dec-08	2:37	229	6.7	11.53	0	0	0	0	
2002-Dec-08	2:38	211	6.7	11.52	0	0	0	0	
2002-Dec-08	2:38	206	6.7	11.53	0	0	0	0	
2002-Dec-08	2:39	215	6.7	11.51	0	0	0	0	
2002-Dec-08	2:39	215	6.7	11.34	0	0	0	0	
2002-Dec-08	2:40	201	6.7	11.32	0	0	0	0	
2002-Dec-08	2:40	201	6.7	11.32	0	0	0	0	
2002-Dec-08	2:41	211	6.7	11.33	0	0	0	0	
2002-Dec-08	2:41	206	6.7	11.34	0	0	0	0	
2002-Dec-08	2:42	192	6.7	11.38	0	0	0	0	
2002-Dec-08	2:42	211	6.7	11.46	0	0	0	0	
2002-Dec-08	2:43	215	6.7	11.60	0	0	0	0	
2002-Dec-08	2:43	211	6.7	11.54	0	0	0	0	
2002-Dec-08	2:44	215	6.7	11.51	0	0	0	0	
2002-Dec-08	2:44	215	6.7	11.50	0	0	0	0	
2002-Dec-08	2:45	211	6.7	11.38	0	0	0	0	
2002-Dec-08	2:45	215	6.7	11.39	0	0	0	0	
2002-Dec-08	2:46	215	6.7	11.38	0	0	0	0	
2002-Dec-08	2:46	206	6.7	11.37	0	0	0	0	
2002-Dec-08	2:47	215	6.7	11.36	0	0	0	0	
2002-Dec-08	2:47	220	6.7	11.40	0	0	0	0	
2002-Dec-08	2:48	206	6.7	11.40	0	0	0	0	
2002-Dec-08	2:48	211	6.7	11.43	0	0	0	0	
2002-Dec-08	2:49	220	6.7	11.40	0	0	0	0	
2002-Dec-08	2:49	215	6.7	11.37	0	0	0	0	
2002-Dec-08	2:50	142	6.7	11.35	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
HJV LAHEY #A-1					02342-Dec-08		ANADARKO PETROLEUM CORPORATION		2205941757
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psf	bbl/min	lb/gal	0	0	0	0	
2002-Dec-08	2:50	220	6.7	11.37	0	0	0	0	KCC
2002-Dec-08	2:51	229	6.7	11.37	0	0	0	0	JAN 2 2 2003
2002-Dec-08	2:51	201	6.7	11.08	0	0	0	0	
2002-Dec-08	2:52	27	2.4	9.76	0	0	0	0	
2002-Dec-08	2:52	18	0.1	9.99	0	0	0	0	<del>CONFIDENTIAL</del>
2002-Dec-08	2:53	18	0.1	9.94	0	0	0	0	RECEIVED
2002-Dec-08	2:53	18	0.1	10.30	0	0	0	0	KANSAS CORPORATION COMMISSION
2002-Dec-08	2:54	82	4.5	9.11	0	0	0	0	
2002-Dec-08	2:54	32	0.2	8.55	0	0	0	0	JAN 24 2003
2002-Dec-08	2:55	18	0.1	9.22	0	0	0	0	
2002-Dec-08	2:55	18	0.2	9.14	0	0	0	0	
2002-Dec-08	2:56	46	3.0	12.53	0	0	0	0	CONSERVATION DIVISION
2002-Dec-08	2:56	174	5.4	12.05	0	0	0	0	WICHITA, KS
2002-Dec-08	2:57	41	5.4	2.52	0	0	0	0	
2002-Dec-08	2:57	23	0.1	8.86	0	0	0	0	
2002-Dec-08	2:58	60	2.8	10.33	0	0	0	0	
2002-Dec-08	2:58	69	2.8	10.55	0	0	0	0	start tail
2002-Dec-08	2:58								Reset Total, Vol = 237.31 bbl
2002-Dec-08	2:58	133	4.5	15.46	0	0	0	0	
2002-Dec-08	2:59	192	4.5	14.89	0	0	0	0	
2002-Dec-08	2:59	243	5.4	14.86	0	0	0	0	
2002-Dec-08	3:00	224	5.4	14.73	0	0	0	0	
2002-Dec-08	3:00	224	5.4	14.89	0	0	0	0	
2002-Dec-08	3:01	224	5.4	14.80	0	0	0	0	
2002-Dec-08	3:01	220	5.4	14.76	0	0	0	0	
2002-Dec-08	3:02	224	5.4	14.90	0	0	0	0	
2002-Dec-08	3:02								Reset Total, Vol = 21.25 bbl
2002-Dec-08	3:02	142	5.4	14.49	0	0	0	0	end tail
2002-Dec-08	3:02	23	0.0	0.30	0	0	0	0	
2002-Dec-08	3:03	9	0.0	0.36	0	0	0	0	
2002-Dec-08	3:03	9	0.0	0.33	0	0	0	0	
2002-Dec-08	3:04	9	0.0	0.30	0	0	0	0	START DISPLACEMENT
2002-Dec-08	3:04	78	1.7	9.75	0	0	0	0	
2002-Dec-08	3:05	114	2.7	9.20	0	0	0	0	
2002-Dec-08	3:05	92	2.7	9.04	0	0	0	0	
2002-Dec-08	3:06	78	5.4	8.82	0	0	0	0	
2002-Dec-08	3:06	60	5.4	6.60	0	0	0	0	
2002-Dec-08	3:07	73	5.4	0.36	0	0	0	0	
2002-Dec-08	3:07	92	5.4	8.55	0	0	0	0	
2002-Dec-08	3:08	101	5.4	8.38	0	0	0	0	
2002-Dec-08	3:08	69	3.5	8.51	0	0	0	0	
2002-Dec-08	3:09	146	6.6	8.49	0	0	0	0	
2002-Dec-08	3:09	160	6.7	8.48	0	0	0	0	
2002-Dec-08	3:10	151	6.7	8.48	0	0	0	0	
2002-Dec-08	3:10	165	6.7	8.48	0	0	0	0	
2002-Dec-08	3:11	174	6.7	8.48	0	0	0	0	
2002-Dec-08	3:11	174	6.7	8.48	0	0	0	0	
2002-Dec-08	3:12	201	6.7	8.48	0	0	0	0	
2002-Dec-08	3:12	201	6.7	8.48	0	0	0	0	
2002-Dec-08	3:13	206	6.7	8.48	0	0	0	0	
2002-Dec-08	3:13	229	6.7	8.48	0	0	0	0	
2002-Dec-08	3:14	243	6.7	8.48	0	0	0	0	
2002-Dec-08	3:14	256	6.7	8.48	0	0	0	0	
2002-Dec-08	3:15	256	6.7	8.48	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
HJV LAHEY #A-1					02342-Dec-08		ANADARKO PETROLEUM CORPORATION		2206944757
Date	Time	Treating Pressure	Flow Rate	CMT DENS	0	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	0	0	0	0	
2002-Dec-08	3:15	247	6.7	8.48	0	0	0	0	KCC
2002-Dec-08	3:16	247	6.7	8.48	0	0	0	0	IAN 2 2 2003
2002-Dec-08	3:16	266	6.7	8.48	0	0	0	0	CONFIDENTIAL
2002-Dec-08	3:17	275	6.7	8.48	0	0	0	0	RECEIVED
2002-Dec-08	3:17	288	6.7	8.48	0	0	0	0	KANSAS CORPORATION COMMISSION
2002-Dec-08	3:18	293	6.7	8.48	0	0	0	0	JAN 2 4 2003
2002-Dec-08	3:18	288	6.7	8.48	0	0	0	0	CONSERVATION DIVISION WICHITA, KS
2002-Dec-08	3:19	311	6.7	8.48	0	0	0	0	
2002-Dec-08	3:19	320	6.7	8.48	0	0	0	0	
2002-Dec-08	3:20	362	6.7	8.48	0	0	0	0	
2002-Dec-08	3:20	352	6.7	8.48	0	0	0	0	
2002-Dec-08	3:21	375	6.7	8.48	0	0	0	0	
2002-Dec-08	3:21	302	2.7	8.48	0	0	0	0	
2002-Dec-08	3:22	311	2.7	8.49	0	0	0	0	
2002-Dec-08	3:22	298	2.7	8.49	0	0	0	0	
2002-Dec-08	3:23	288	2.7	8.48	0	0	0	0	
2002-Dec-08	3:23	316	2.7	8.49	0	0	0	0	
2002-Dec-08	3:24	307	2.7	8.48	0	0	0	0	
2002-Dec-08	3:24	339	2.7	8.48	0	0	0	0	
2002-Dec-08	3:25	659	0.0	8.48	0	0	0	0	bump plug
2002-Dec-08	3:25	238	0.0	8.48	0	0	0	0	check floats
2002-Dec-08	3:26	9	0.0	8.49	0	0	0	0	floats holding
2002-Dec-08	3:26	9	0.0	8.49	0	0	0	0	rig down
2002-Dec-08	3:27	9	0.0	8.49	0	0	0	0	
2002-Dec-08	3:27	9	0.0	8.49	0	0	0	0	
2002-Dec-08	3:28	9	0.0	8.49	0	0	0	0	
2002-Dec-08	3:28	9	0.0	8.49	0	0	0	0	
2002-Dec-08	3:29	9	0.0	8.49	0	0	0	0	

Post Job Summary

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
6			6.5	232	0	0	
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density	
686				150			
Avg. N2 Percent		Designed Slurry Volume	Displacement	Mix Water Temp	Cement Circulated to Surface? Volume 51 bbl		
%		232 bbl	112 bbl	°F	<input checked="" type="checkbox"/> Washed Thru Perfs To ft		
Customer or Authorized Representative				Schlumberger Supervisor		<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed	
Parks, Kenny				Rogers, James			

# HALLIBURTON JOB SUMMARY

REGION <b>Central Operations</b>	NWA / COUNTRY <b>Mid Continent/USA</b>	SALES ORDER NUMBER <b>2190591</b>	TICKET DATE <b>12/15/02</b>
MBU ID / EMPL # <b>MCLI0101 106322</b>	H.E.S. EMPLOYEE NAME <b>Danny McLane</b>	BDA / STATE <b>Ks</b>	COUNTY <b>GRANT</b>
LOCATION <b>LIBERAL</b>	COMPANY <b>ANADARKO PETROLEUM CORPORA</b>	PSL DEPARTMENT <b>Cement</b>	<b>ORIGINAL</b>
TICKET AMOUNT <b>\$7,400.01</b>	WELL TYPE <b>Oil</b>	CUSTOMER REP / PHONE <b>STEVE BARTEL</b>	
WELL LOCATION <b>Ryus Ks</b>	DEPARTMENT <b>Cement</b>	SAP BOMB NUMBER <b>7523</b>	Cement Production Casing
LEASE NAME <b>HJV LAHEY</b>	Well No. <b>A-1</b>	SEC / TWP / RNG <b>34 - 29S - 35W</b>	HES FACILITY (CLOSEST TO WELL SITE) <b>Liberal Ks</b>

HES EMP NAME / EMP # / (EXPOSURE HOURS)	HR	HR	HR	HR
<b>McLane, D 106322</b>	11.0			
<b>Tate, N 105953</b>	11.0			
<b>Oliphant, C 243055</b>	9.5			

H.E.S. UNIT #S / (R / T MILES)	R / T MILES	R / T MILES	R / T MILES	R / T MILES
<b>420995</b>	<b>50</b>			
<b>10251401</b>	<b>50</b>			
	<b>25</b>			

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
	<b>12/15/2002</b>	<b>12/15/2002</b>	<b>12/16/2002</b>	<b>12/16/2002</b>
Time	<b>1830</b>	<b>2030</b>	<b>0530</b>	<b>0730</b>

Tools and Accessories

Type and Size	Qty	Make
Float Collar <b>SS II 5 1/2</b>	<b>1</b>	<b>H</b>
Float Shoe <b>SS II 5 1/2</b>	<b>1</b>	
Centralizers <b>5 1/2</b>	<b>19</b>	<b>O</b>
Top Plug <b>5 1/2</b>	<b>1</b>	
HEAD <b>5 1/2</b>	<b>1</b>	<b>W</b>
Limit clamp		
Weld-A	<b>1</b>	<b>C</b>
Guide Shoe		
BTM PLUG		<b>O</b>

Well Data

	New/Used	Weight	Size	Grade	From	To	Max. Allow
Casing	New	15.5	5 1/2		KB	5708.44	
Liner							
Liner							
Tubing							
Drill Pipe							
Open Hole			7 7/8				Shots/Ft.
Perforations							
Perforations							
Perforations							

Materials

	Density	Lb/Gal
Mud Type		
Disp. Fluid		
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	
12/15	3.5	12/16	2.0	<b>Cement Production Casing</b>
12/16	7.5			<b>RECEIVED</b>
				<b>KANSAS CORPORATION COMMISSION</b>
				<b>JAN 24 2003</b>
				<b>CONSERVATION DIVISION</b>
				<b>WICHITA KS</b>
Total	<b>11.0</b>	Total	<b>2.0</b>	

Ordered	Hydraulic Horsepower Avail.	Used
Treating	Average Rates in BPM	Overall
	Disp.	
Feet <b>45</b>	Cement Left in Pipe	Reason
		<b>SHOE JOINT</b>

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	155	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				PLUG RA			

Summary

Circulating Breakdown	Displacement	Preflush: BBI	5.00	Type: fresh water
Lost Returns	MAXIMUM	Load & Bkdn: Gal - BBI		Pad:Bbl -Gal
Cmt Rtrn#Bbl	Lost Returns	Excess /Return BBI		Calc.Disp Bbl
Average	Actual TOC	Calc. TOC:		Actual Disp.
Shut In: Instant	Frac. Gradient	Treatment: Gal - BBI		Disp:Bbl
	5 Min.	Cement Slurry BBI	27, 34.7	5.5 Rat & Mouse
	15 Min.	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 \_\_\_\_\_

CONFIDENTIAL

KCC  
JAN 22 2003

ORIGINAL

CONFIDENTIAL

<b>HALLIBURTON JOB LOG</b>		TICKET # <b>2190591</b>	TICKET DATE <b>12/15/02</b>
REGION <b>Central Operations</b>	NWA / COUNTRY <b>Mid Contitnent/USA</b>	BDA / STATE <b>Ks</b>	COUNTY <b>GRANT</b>
MBU ID / EMPL # <b>MCLI0101 106322</b>	H.E.S EMPLOYEE NAME <b>Danny McLane</b>	PSL DEPARTMENT <b>Cement</b>	
LOCATION <b>LIBERAL</b>	COMPANY <b>ANADARKO PETROLEUM CORPO</b>	CUSTOMER REP / PHONE <b>STEVE BARTEL 1-806-679-3792</b>	
TICKET AMOUNT <b>\$7,400.01</b>	WELL TYPE <b>Oil</b>	API/UWI #	
WELL LOCATION <b>Ryus Ks</b>	DEPARTMENT <b>Cement</b>	JOB PURPOSE CODE <b>Cement Production Casing</b>	
LEASE NAME <b>HJV LAHEY</b>	Well No. <b>A-1</b>	SEC / TWP / RNG <b>34 - 29S - 35W</b>	
		HES FACILITY (CLOSEST TO WELL'S) <b>Liberal Ks</b>	

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
Mclane, D 106322	11						
Tate, N 105953	11						
Oliphant, C 243055	8.5						

Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press.(PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
	1830							Called for job
	2030							On location do job site assessment rig laying down
								drill pipe.Bring pump truck on location
	2200							Bulk truck on location and hold safety with driver
	1208							Drill pipe out of hole and rig down kelly
	1220							Hold safety meeting and rig up casing crew
	0100							Start running 5 1/2 casing and float equipment
	0445							Casing on bottom
	0448							Hook up plug container and circulating hose
	0451							Start circulating with rig pump
	0455							Got mud returns and rig down casing crew
	0530	2.0	5.5		0			Plug rat and mouse holes with cement @ 14.4 #/gal
	0600							Through circulating with rig pump
	0602							Hook up to Halliburton
								Job procedure for 5 1/2 long string
	0605					0/3000		Pressure test lines
	0606	2.0	5.0			0/130		Start fresh water spacer ahead
	0609	4.0	27.0			130/245		Start scavenger cement @ 10 #/gal
	0615	5.5	34.7			250		Start cement @ 14.4 #/gal
	0617							Through mixing cement
	0621							Shut down & wash up pumps & lines & drop top plug
	0627	6.5	135.0			0/107		Start displacement with 2% KCL and CLA-STA XP
	0646					110/180		Displacement caught cement
	0649	2.0				650/400		Slow down rate
	0653					510/2000		Plug landed and pressure up casing
	0700					2000/0		Release pressure and float holding

RECEIVED  
KANSAS CORPORATION COMMISSION

JAN 24 2003

CONSERVATION DIVISION  
WICHITA, KS

Thank you for calling Halliburton  
Danny and Crew