

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

API NO. 15- 189-22345 - 00 - 00

County STEVENS
20' E OF: _____ E
- N/2 - N/2 - SE Sec. 3 Twp. 33S Rge. 39 X W

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: ANADARKO ENERGY SERVICES

Operator Contact Person: SHAWN YOUNG

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

7-13-2000 7-26-2000 8-27-2000
Spud Date Date Reached TD Completion Date

CONFIDENTIAL

RELEASED

NOV 17 2002

FROM CONFIDENTIAL

CONSERVATION DIVISION
Wichita, Kansas

SEP 10 2000

STATE CORPORATION COMMISSION
RECEIVED

2310 Feet from X (circle one) Line of Section

1300 Feet from (circle one) Line of Section

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

Lease Name HJV CHRISTOPHER "A" Well # 1

Field Name WILDCAT

Producing Formation MORROW AUG 29 2000

Elevation: Ground 3219.3 CONFIDENTIAL 3230

Total Depth 6394 PBD 6280

Amount of Surface Pipe Set and Cemented at 1736 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 3326 Feet

Alternate II completion, cement circulated from _____

Feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan At 2 4/3/01 JB
Data must be collected from the Reserve Pit)

Chloride content 900 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 207B, 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

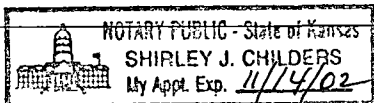
L. MARC HARVEY

Title ENGINEERING TECHNICIAN III Date 8-29-2000

Subscribed and sworn to before me this 29th day of August 20 00.

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 HJV CHRISTOPHER "A" Well # 1

Sec. 3 Twp. 33S Rge. 39 East County STEVENS
 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-CCL-GR, DIL, CNL-LDT, ML, LS SONIC.

Name	Top	Datum
CHASE	2414	
COUNCIL GROVE	2748	
B/HEEBNER	3982	
MARMATON	4784	
MORROW	5532	
STE. GENEVIVE	6158	
ST. LOUIS	6276	

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"	23.0	1736	CLASS C/C.	385/100	3D29, 2D46, .5D29/2S1, .25D29.
PRODUCTION	7-7/8"	5-1/2"	15.5	6365	50/50 POZ C/ 50/50 POZ C.	25/212	10%SALT, .2%D46, .75% D60, 2%D20, .25#/SK D29/SAME.
			PORT COLLAR @	3326	P+ MIDCON/ 50/50 POZ H.	165/100	2%CC, 1/4#/SK FLC/ 10%SALT, .75%H322, 2CC 1/4#/SK FLC.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			

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	6296-6315, CIBP @ 6290.		
6	5892-5910, 5916-5938, 5970-5974.		FRAC: 53,842 GAL GEL & 161,767# 16/30 SD.	5892-5974 OA

TUBING RECORD	Size 2-7/8"	Set At 5824'	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. 8/24/2000 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 40 Bbls.	Gas 5800 Mcf	Water 0 Bbls.	Gas-Oil Ratio 145000	Gravity
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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 5892-5974 OA.



Dowell

Dowell, A Division of Schlumberger Technology Corp.
204 S Missouri
Ulysses, KS

CONFIDENTIAL

Service Order Receipt

DRAFT

ORIGINAL

Job Number
20167646

Invoice Mailing Address:
ANADARKO PETROLEUM CORPORATION
ATTN: **KCC**
LIBERAL, KS
US
RELEASED
NOV 12 2002
FROM CONFIDENTIAL
AUG 29 2000
CONFIDENTIAL

ARRIVE LOCATION	Date	07/15/2000	Time	1:00:00 AM
JOB START	Date	07/15/2000	Time	9:00:00 AM
JOB COMPLETION	Date	07/15/2000	Time	11:00:00 AM
LEAVE LOCATION	Date	07/15/2000	Time	12:00:00 PM

Service Instructions
8 5/8" surface set @ approx 1690' in 12 1/4 hole
385 sk Lead @ 11.4 ppg
100 sk tail @ 14.8 ppg

Service Description
Cementing - Cem Surface Casing

Customer PO	0	Contract	0	AFE	0	Rig	NORSMAN 3
Well	HJV CHRISTOPHER A-1		State/Province	KS	County/Parish/Block	STEVENS	
Field	WILDCAT		Legal Location	3-33S-39W			
Customer or Authorized Representative				Steve Ridenour			

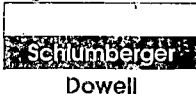
Item	Description	Quantity	Unit	Unit Price	Amount
Services					
102871020	Casing Cmnt 0000-2000' 1st 4hr	1	EA	1,650.00	1,650.00
48019000	Cement Bulk Unit hrs On Location	4	HR	85.00	340.00
48020000	Cement Pump-add. hr On Locat	4	HR	415.00	1,660.00
49100000	Service Chg Cement Matl Land All DW Fur	505	CF	1.90	959.50
49102000	Transportation Cement Ton Mile	472	MI	1.40	660.80
59200002	Mileage, All Other Equipment	40	MI	3.75	150.00
59697004	PRISM	1	JOB	735.00	735.00
Services Subtotal:					6,155.30

Products					
53003085	Insert, Orifice Fill	1	EA	473.00	473.00
56008085	Basket, Cementing 8-5/8 In	1	EA	347.00	347.00
56011085	Centralizer, Regular	4	EA	106.00	424.00
56702085	Plug, Cementing 8 5/8 In Top Plastic	1	EA	142.00	142.00
D029	Cellophane Flakes D29	218	LB	2.14	466.52
D079	Extender, Chemical D79	1086	LB	1.75	1,900.50
D903	Cement, Class C D903	485	CF	13.23	6,416.55
K232	Thread Locking Compound Kit K232	1	EA	37.00	37.00
S001	Calcium Chloride 77% S1	188	LB	0.54	101.52
Products Subtotal:					10,308.09

Subtotal (Before Discount):	16,463.39	Estimated Total (USD):	9,818.75
Discount:	6,644.64		
Special Discount:	0.00		
The estimated charges above are subject to correction by Dowell.			

Service Receipt: I certify that the materials and services listed were received and all services performed in a workmanlike manner	Signature of Customer or Authorized Representative Steve Ridenour	Signature of Dowell Representative Charley King
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Thank you for Calling Dowell!



Cementing Service Report

ORIGINAL

CONFIDENTIAL

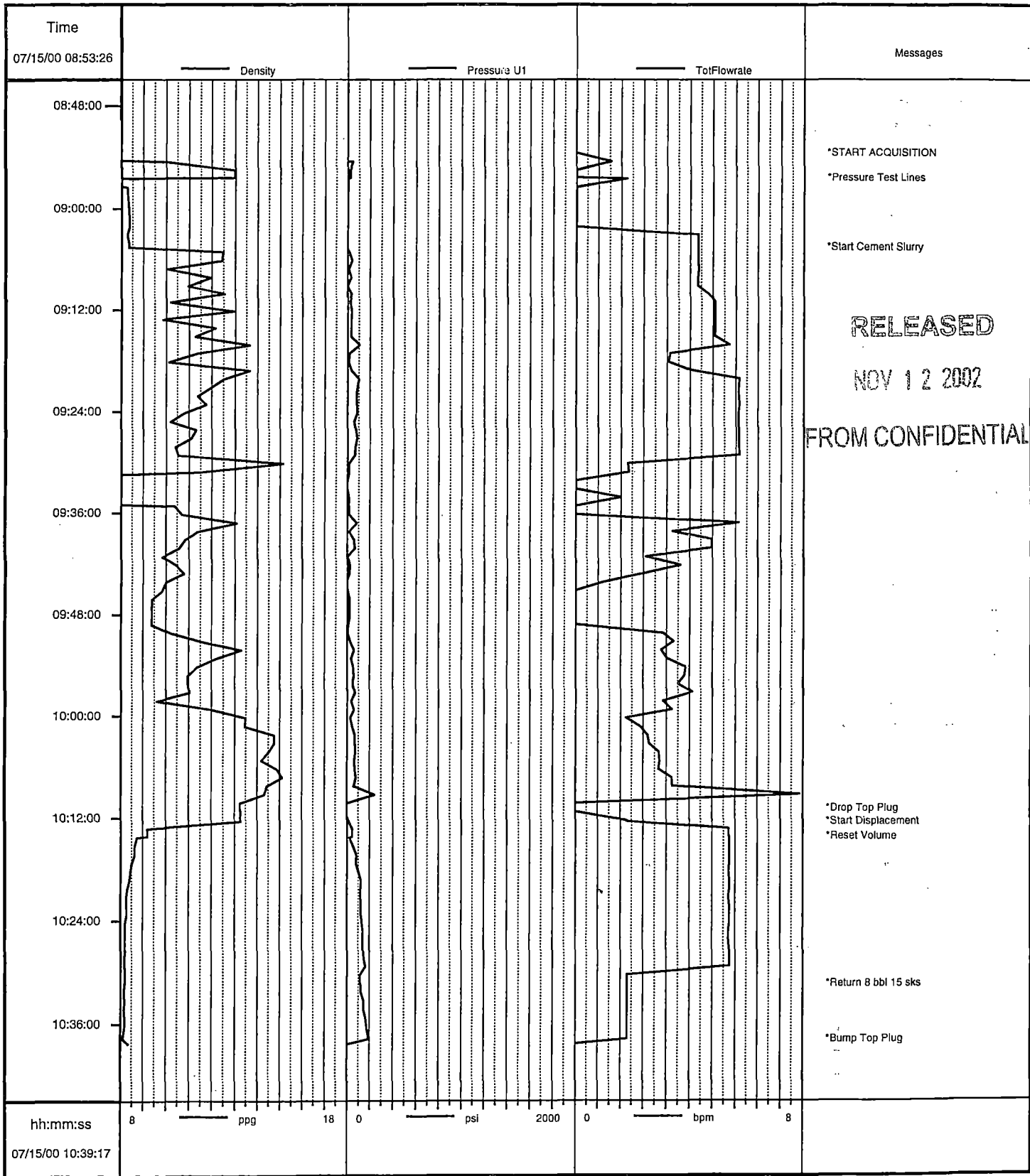
Customer ANADARKO PETROLEUM CORPORATION	Job Number 20167646
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Well HJV CHRISTOPHER A-1		Location (legal) 3-33S-39W		Dowell Location Ulysses, KS		Job Start 07/15/2000			
Field WILDCAT		Formation Name/Type SURFACE		Deviation 0		Bit Size 12.3 in	Well MD 1,690 ft	Well TVD 1,690 ft	
County STEVENS		State/Province KS		BHP psi	BHST 80 °F	BHCT 80 °F	Pore Press. Gradient psi/ft		
Rig Name NORSMAN 3	Drilled For Oil & Gas	Service Via Land		Casing/Liner					
Offshore Zone	Well Class New	Well Type Exploration		Depth, ft 1690	Size, in 8.63	Weight, lb/ft 24	Grade WC-50	Thread 8RD	
Drilling Fluid Type		Max. Density 0 lb/gal	Plastic Viscosity 0 cp		Tubing/Drill Pipe				
Service Line Cementing	Job Type Cem Surface Casing		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread		
Max. Allowed Tubing Pressure psi	Max. Allowed Ann. Pressure psi	WellHead Connection 8 5/8 HS&M		Perforations/Open Hole					
Service Instructions 8 5/8" surface set @ approx 1690' in 12 1/4 hole 385 sk Lead @ 11.4 ppg 100 sk tail @ 14.8 ppg		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft			
<p style="text-align: center;">KCC AUG 29 2000 CONFIDENTIAL</p>		Treat Down Casing	Displacement bbl	Packer Type None	Packer Depth ft				
		Tubing Vol. bbl	Casing Vol. bbl	Annular Vol. bbl	OpenHole Vol bbl				
		Casing Tools		Squeeze Job					
		Lift Pressure: 190 psi		Shoe Type: Texas	Shoe Depth: 1734 ft		Squeeze Type		
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Stage Tool Type	Tool Depth: 0 ft					
No. Centralizers: 5	Top Plugs: 1	Bottom Plugs: 0		Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in				
Cement Head Type: Single		Collar Type: Other	Collar Depth: 1698 ft		Tail Pipe Depth: 0 ft		Sqz Total Vol: 0 bbl		
Job Scheduled For:	Arrived on Location: 07/15/2000 1:00	Leave Location: 7/15/2000 12:00							
Time 24 hr. clock	CumVol bbl	Density ppg	Pressure U1 psi	TotFlowrate bpm	Message				
8:53	0	0	0	0	START ACQUISITION				
8:53	0.	-6.25	-3782	0.					
8:54	0.251	9.89	45.84	1.23					
8:54	0.251	9.89	45.84	1.23	Pressure Test Lines				
8:55	0.335	12.97	22.95	0.	RELEASED				
8:56	0.778	6.27	4.63	1.79					
8:57	1.23	8.26	4.63	0.					
9:01	1.23	8.36	-13.68	0.					
9:02	1.8	8.36	-13.68	0.					
9:03	3.68	8.27	0.051	4.28					
9:04	7.97	8.36	-9.11	4.28					
9:04	7.97	8.36	-9.11	4.28					
9:05	3.08	12.48	13.79	4.28					
9:06	7.37	12.42	41.26	4.28					
9:07	11.67	10.04	9.21	4.31					
9:08	15.97	11.94	32.1	4.28					
9:09	20.27	10.96	0.051	4.28					
9:10	24.7	12.55	36.68	4.64					
9:11	29.59	10.2	22.95	4.87					
9:12	34.47	12.91	36.68	4.87					
9:13	39.34	9.87	32.1	4.87					
9:14	44.21	12.14	32.1	4.87					

Well		Field			Service Date	Customer	Job Number
HJV CHRISTOPHER #A-1		WILDCAT				IRKO PETROLEUM CORP	20167646
Time	CumVol	Density	Pressure U1	TotFlowrate			Message
24 hr clock	bbbl	ppg	psi	bpm			ORIGINAL
10:09	220.9	14.32	242.7	7.88	0	0	
10:10	224.3	13.25	0.051	0.	0	0	
10:10	224.3	13.25	0.051	0.	0	0	Drop Top Plug
10:10	224.3	13.25	0.051	0.	0	0	Start Displacement KCC
10:11	224.3	13.25	0.051	0.	0	0	Reset Volume
10:11	0.	13.28	-13.68	0.	0	0	AUG 29 2000
10:12	0.297	13.26	13.79	1.82	0	0	
10:13	4.69	9.2	45.84	5.37	0	0	CONFIDENTIAL
10:14	10.09	8.73	22.95	5.4	0	0	
10:15	15.5	8.64	55.	5.4	0	0	
10:16	20.9	8.64	82.47	5.4	0	0	
10:17	26.3	8.5	77.89	5.4	0	0	
10:18	31.7	8.44	100.8	5.37	0	0	RELEASED
10:19	37.1	8.4	123.7	5.4	0	0	
10:20	42.49	8.31	119.1	5.4	0	0	NOV 12 2002
10:21	47.89	8.26	119.1	5.37	0	0	
10:22	53.28	8.27	123.7	5.4	0	0	FROM CONFIDENTIAL
10:23	58.68	8.28	123.7	5.4	0	0	
10:24	64.07	8.21	132.8	5.4	0	0	
10:25	69.46	8.23	142.	5.37	0	0	
10:26	74.84	8.21	142.	5.37	0	0	
10:27	80.23	8.21	142.	5.4	0	0	
10:28	85.62	8.18	146.6	5.4	0	0	
10:29	91.01	8.2	160.3	5.4	0	0	
10:30	95.86	8.2	114.5	1.85	0	0	
10:31	95.86	8.2	114.5	1.85	0	0	Return 8 bbl 15 sks
10:31	97.71	8.2	119.1	1.85	0	0	
10:32	99.57	8.17	123.7	1.85	0	0	
10:33	101.4	8.19	146.6	1.85	0	0	
10:34	103.3	8.17	146.6	1.85	0	0	
10:35	105.1	8.2	164.9	1.85	0	0	
10:36	107.	8.2	174.	1.85	0	0	
10:37	108.8	8.13	187.8	1.85	0	0	
10:37	108.8	8.13	187.8	1.85	0	0	Bump Top Plug
10:38	109.	8.37	4.63	0.	0	0	
10:38	109.	8.37	4.63	0.	0	0	End Job

Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
4	0	0	6	230	0	10	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
190	500	100	500	0		0 bbl	0 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	8	bbl		
0 %	220 bbl	109 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	0	ft		
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			
Steve Ridenour			Charley King						

Well	HJV Christopher A-1	Client	Anadarko Petroleum	KCC
Field	Hugoton	SIR No.	20167646	AUG 29 2000
Country	USA	Job Date	07/15/2000 8:53:26 AM	CONFIDENTIAL



RELEASED
 NOV 12 2002
 FROM CONFIDENTIAL

Job: apc

07/15/2000 14:51:48

AUG 29 2000

Cementing Service Report

Schlumberger
Dowell

CONFIDENTIAL

Customer: ANADARKO PETROLEUM CORPORATION
Job Number: 20169872

Well: HJV CHRISTOPHER A-1		Location (legal): 3-33S-39W		Dowell Location: Ulysses, KS		Job Start: 07/27/2000	
Field: WILDCAT		Formation Name/Type: MORROW		Deviation: 0		Well MD: 6,400 ft	
County: STEVENS		State/Province: KS		BHP: psi		Well TVD: 6,400 ft	
Rig Name: NORSMAN 3		Drilled For: Oil & Gas		Service Via: Land		BHT: 140 °F	
Offshore Zone:		Well Class: New		Well Type: Exploration		BHCT: 115 °F	
Drilling Fluid Type:		Max. Density: 0 lb/gal		Plastic Viscosity: 0 cp		Pore Press. Gradient: psi/ft	
Service Line: Cementing		Job Type:		Casing/Liner			
Max. Allowed Tubing Pressure: psi		Max. Allowed Ann. Pressure: psi		Well Head Connection: 5 1/2 HS&M		Perforations/Open Hole	
Service Instructions:		5 1/2" production casing set @ approximately 6400'		Pump 8 bbl water, 10 bbl CW7, 8 bbl water		25 sk scavenger slurry @ 10 ppg	
		+ 1/2 4 1/2 sk D29 + .2% D46		+ 1/4 4 1/2 sk D29 + 10% Salt		+ .2% D46	
		25 sk rathole/mousehole - 4 wheel trailer		2% Gel + .75% D60			
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure: psi		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide	
No. Centralizers: 10		Top Plugs: 1		Bottom Plugs: 0		Shoe Depth: 6360 ft	
Cement Head Type: Single		Arrived on Location: 07/27/2000 15:00		Leave Location:		Tool Type:	
Job Scheduled For: 07/27/2000 15:00						Stage Tool Type: port collar	
						Stage Tool Depth: 3326 ft	
						Tail Pipe Size: 0 in	
						Collar Type: Auto-Fill	
						Tail Pipe Depth: 0 ft	
						Collar Depth: 6356 ft	
						Sqz Total Vol: 0 bbl	

Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bpm			
22:54	0	0	0	0	0	0	START ACQUISITION
22:54	0.	-6.25	-3768	0.	0	0	
22:54	0.	0.	9.16	0.	0	0	
22:55	0.	0.	0.	0.	0	0	
22:55	0.	0.	0.	0.	0	0	
22:56	0.235	4.01	1909	0.112	0	0	
22:56	0.235	4.01	1909	0.112	0	0	Pressure Test Lines
22:56	0.237	0.	91.58	0.	0	0	
22:57	0.237	7.25	64.1	0.	0	0	
22:57	1.43	8.13	476.2	5.76	0	0	
22:57	1.43	8.13	476.2	5.76	0	0	Start Pumping Water
22:58	4.3	8.12	444.1	5.73	0	0	
22:58	7.18	8.14	435.	5.68	0	0	
22:58	7.18	8.14	435.	5.68	0	0	Start CW7
22:59	10.06	8.13	453.3	5.73	0	0	
22:59	12.94	8.	471.6	5.73	0	0	
23:00	15.82	8.04	370.9	5.73	0	0	
23:00	18.69	8.	430.4	5.73	0	0	
23:00	18.69	8.	430.4	5.73	0	0	Start Pumping Water
23:01	21.57	7.88	457.9	5.7	0	0	
23:01	24.45	7.96	467.	5.7	0	0	
23:02	27.32	10.18	425.8	5.68	0	0	

RELEASED

NOV 12 2002

FROM CONFIDENTIAL

CONFIDENTIAL

ORIGINAL

Well		Field			Service Date		Customer	Job Number
HJV CHRISTOPHER #A-1		WILDCAT					ARKO PETROLEUM CORP	20169872
Time	CumVol	Density	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
23:02	27.32	10.18	425.8	5.68	0	0	0	Start Mixing Lead Slurry
23:02	2.78	9.47	435.	5.7	0	0	0	KCC
23:03	5.65	9.97	462.5	5.7	0	0	0	
23:03	8.52	9.99	444.1	5.68	0	0	0	AUG 29 2000
23:04	11.4	10.31	421.2	5.7	0	0	0	
23:04	14.27	9.87	444.1	5.73	0	0	0	CONFIDENTIAL
23:05	17.14	10.15	416.7	5.7	0	0	0	
23:05	0.	11.36	444.1	5.73	0	0	0	
23:05	0.	11.36	444.1	5.73	0	0	0	Start Mixing Tail Slurry
23:06	2.87	14.35	503.7	5.7	0	0	0	
23:06	5.74	14.9	489.9	5.73	0	0	0	
23:07	8.62	14.87	499.1	5.68	0	0	0	
23:07	11.49	14.36	375.5	5.7	0	0	0	
23:08	14.36	14.21	380.	5.73	0	0	0	
23:08	17.23	14.5	357.1	5.7	0	0	0	
23:09	20.1	14.94	348.	5.73	0	0	0	
23:09	22.97	14.61	320.5	5.7	0	0	0	
23:10	25.85	14.51	274.7	5.7	0	0	0	
23:10	28.72	14.84	288.5	5.7	0	0	0	
23:11	31.59	14.5	238.1	5.7	0	0	0	
23:11	34.46	14.44	224.4	5.7	0	0	0	
23:12	37.34	14.74	251.8	5.73	0	0	0	
23:12	40.21	14.5	233.5	5.73	0	0	0	
23:13	43.08	13.81	215.2	5.7	0	0	0	
23:13	43.08	13.81	215.2	5.7	0	0	0	Shutdown
23:13	43.08	13.81	215.2	5.7	0	0	0	Drop Top Plug
23:13	0.	13.05	0.	0.	0	0	0	
23:13	0.	13.05	0.	0.	0	0	0	Start Displacement
23:19	0.	8.64	0.	0.	0	0	0	
23:19	1.41	8.56	77.84	4.95	0	0	0	
23:20	4.26	8.49	100.7	5.7	0	0	0	
23:20	7.12	8.42	96.15	5.7	0	0	0	
23:21	9.99	9.24	100.7	5.7	0	0	0	RELEASED
23:21	12.85	9.22	100.7	5.7	0	0	0	
23:22	15.71	9.17	87.	5.73	0	0	0	NOV 12 2002
23:22	18.58	9.13	91.58	5.7	0	0	0	
23:23	21.44	9.19	96.15	5.7	0	0	0	
23:23	24.3	9.27	96.15	5.73	0	0	0	FROM CONFIDENTIAL
23:24	27.17	9.24	100.7	5.73	0	0	0	
23:24	30.03	9.17	96.15	5.7	0	0	0	
23:25	32.89	9.12	96.15	5.7	0	0	0	
23:25	35.76	9.02	100.7	5.7	0	0	0	
23:26	38.62	8.98	100.7	5.68	0	0	0	
23:26	41.48	8.95	96.15	5.7	0	0	0	
23:27	44.35	8.86	100.7	5.7	0	0	0	
23:27	47.21	8.82	105.3	5.7	0	0	0	
23:28	50.08	8.79	105.3	5.73	0	0	0	
23:28	52.94	8.8	100.7	5.7	0	0	0	
23:29	55.8	8.71	100.7	5.7	0	0	0	
23:29	58.66	8.64	96.15	5.73	0	0	0	
23:30	61.53	8.64	105.3	5.7	0	0	0	
23:30	64.39	8.6	100.7	5.7	0	0	0	
23:31	67.25	8.55	105.3	5.7	0	0	0	
23:31	70.12	8.62	105.3	5.7	0	0	0	

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Well		Field			Service Date		Customer		Job Number
HJV CHRISTOPHER #A-1		WILDCAT					ARKO PETROLEUM CORPC		20169872
Time	CumVol	Density	Pressure U1	TotFlowrate				Message	
24 hr clock	bbbl	ppg	psi	bpm					
23:32	72.98	8.54	105.3	5.73	0	0	0	KCC	
23:32	75.84	8.52	105.3	5.7	0	0	0	KCC	
23:33	78.71	8.5	105.3	5.7	0	0	0	AUG 29 2001	
23:33	81.57	8.49	100.7	5.73	0	0	0	CONFIDENTIAL	
23:34	84.43	8.51	100.7	5.73	0	0	0	CONFIDENTIAL	
23:34	87.3	8.49	100.7	5.7	0	0	0		
23:35	90.16	8.49	105.3	5.7	0	0	0		
23:35	93.02	8.46	100.7	5.7	0	0	0		
23:36	95.89	8.49	109.9	5.7	0	0	0		
23:36	98.75	8.48	164.8	5.73	0	0	0		
23:37	101.6	8.44	187.7	5.68	0	0	0		
23:37	104.4	8.46	206.	5.7	0	0	0		
23:38	107.3	8.43	224.4	5.73	0	0	0		
23:38	110.1	8.46	311.4	5.7	0	0	0		
23:39	113.	8.43	370.9	5.7	0	0	0		
23:39	115.9	8.39	439.6	5.7	0	0	0		
23:40	118.7	8.42	494.5	5.7	0	0	0		
23:40	121.6	8.43	563.2	5.7	0	0	0		
23:41	124.4	8.43	641.	5.73	0	0	0		
23:41	127.3	8.42	696.	5.73	0	0	0		
23:42	130.2	8.41	760.1	5.73	0	0	0		
23:42	133.	8.39	815.	5.7	0	0	0	RELEASED	
23:43	135.9	8.39	870.	5.73	0	0	0	NOV 12 2002	
23:43	135.9	8.39	870.	5.73	0	0	0	Lower Pump Rate	
23:43	138.4	8.41	503.7	1.9	0	0	0	FROM CONFIDENTIAL	
23:44	139.4	8.39	581.5	1.9	0	0	0		
23:44	140.3	8.37	613.6	1.93	0	0	0		
23:45	141.3	8.38	636.4	1.9	0	0	0		
23:45	142.3	8.39	650.2	1.9	0	0	0		
23:46	143.2	-0.137	663.9	1.9	0	0	0		
23:46	144.2	8.58	691.4	1.93	0	0	0		
23:47	145.1	8.64	714.3	1.9	0	0	0		
23:47	146.1	8.64	732.6	1.9	0	0	0		
23:48	147.1	8.67	755.5	1.9	0	0	0		
23:48	148.	8.75	764.7	1.9	0	0	0		
23:49	149.	8.73	787.5	1.9	0	0	0		
23:49	149.9	8.72	805.9	1.9	0	0	0		
23:50	150.9	8.73	819.6	1.93	0	0	0		
23:50	151.9	8.72	847.1	1.9	0	0	0		
23:51	152.8	8.71	1735	1.85	0	0	0		
23:51	152.8	8.71	1735	1.85	0	0	0	Bump Top Plug	
23:51	153.4	8.65	1250	0.	0	0	0		
23:52	153.4	8.64	36.63	0.	0	0	0		
23:52	153.8	8.64	851.6	1.96	0	0	0		
23:53	154.8	8.64	842.5	1.99	0	0	0		
23:53	155.	8.64	36.63	0.	0	0	0		
23:54	155.4	8.64	787.5	1.01	0	0	0		
23:54	155.4	8.64	682.2	0.	0	0	0		
23:55	155.4	8.6	659.3	0.	0	0	0		
23:55	155.4	8.58	18.32	0.	0	0	0		
23:56	155.4	8.57	13.74	0.	0	0	0		
23:56	155.4	8.52	18.32	0.	0	0	0		

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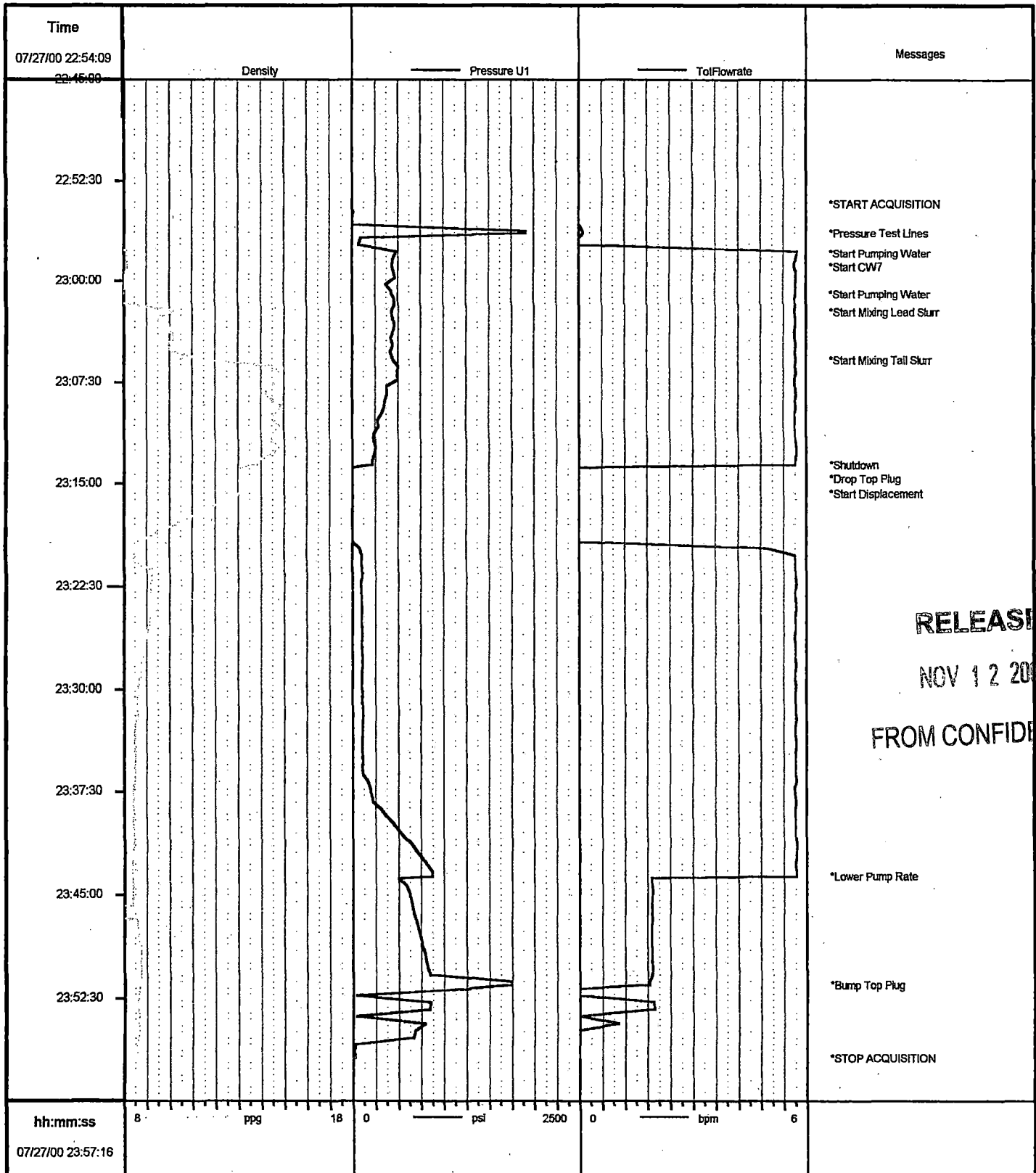
Well HJV CHRISTOPHER #A-1		Field WILDCAT		Service Date		Customer ARKO PETROLEUM CORPC		Job Number 20169872	
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	TotFlowrate bpm				Message KCC AUG 29 2000	
Post Job Summary									
Average Pump Rates, bpm				Volume of Fluid Injected, bbl			CONFIDENTIAL		
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5	0	0	6	69	0	28	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
700	1950	400	0	0		0 bbl	0 lb/gal		
Avg. N2 Percent	Designed Slurry Volume	Displacement	Mix Water Temp	<input type="checkbox"/> Cement Circulated to Surface? Volume 0 bbl <input type="checkbox"/> Washed Thru Perfs To 0 ft					
0 %	70 bbl	151 bbl	°F						
Customer or Authorized Representative Jim Barlow			Dowell Supervisor Charley King			<input type="checkbox"/> CirculationLost <input checked="" type="checkbox"/> Job Completed			

RELEASED

NOV 12 2002

FROM CONFIDENTIAL

Well	Christopher	Client	Anadarko Petro.	KCC
Field		SIR No.	20169872	AUG 29 2000
Country	USA	Job Date	07/27/2000 10:54:09 PM	CONFIDENTIAL



RELEASED
NOV 12 2002
FROM CONFIDENTIAL

Job: apc
07/27/2000 23:59:42

* Mark of Schlumberger

JOB SUMMARY

ORDER NO. 70006

TICKET #	786740	TICKET DATE	AUG 1, 2000
REGION	North America	BDA / STATE	KANSAS
NWA/COUNTRY	MIDCONT.	COUNTY	STEVENS
MBU ID / EMP #	mcli 0102 188624	PSL DEPARTMENT	ZI ORIGINAL
EMPLOYEE NAME	JOE JACKSON	CUSTOMER REP / PHONE	
LOCATION	LIBERAL	WELL TYPE	GAS
COMPANY	ANADARKO PET. CORP	API / UWI #	
TICKET AMOUNT	# 8482.65	DEPARTMENT	501
WELL LOCATION	HOUSTON	JOB PURPOSE CODE	035 Cont Part Cdr
LEASE / WELL #	HV CHRISTOPHER A-1	SEC / TWP / RNG	3-33S-39W KCC

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
J. JACKSON 188624 4.5			
T. DAVIS 106304 4.5			
J. FULLER 207238 4.5			
J. STANLEY 17974 4.5			

AUG 2, 2000
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HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
Plu 421269		52938-7589					
Plu 420624							
54018-78202							

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		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
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	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	8/1/00	8/1	8/1	8/1
TIME	1100	1230	1850	1904

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	15.5	5 1/2	SURF	3326	
Liner						
Liner						
Tbg/D.P.	U	8.7	2 7/8	SURF	3326	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
8/1	4.5	8/1	1	RELEASED
				NOV 12 2002
				FROM CONFIDENTIAL
TOTAL	4.5	TOTAL	1	

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET	CEMENT LEFT IN PIPE	Reason

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	165	P4 MILCON	B	2% CC, 1/4# SX FLOCELE	3.22	11.1
2	100	50/50 P2H	B	10% SALT, 0.75% HALAD-322, 2% CC, 1/4# SX FLOCELE	1.26	14.4

Circulating	Displacement	Preflush:	Gal - BBI	10	Type	MF
Breakdown	Maximum	Load & Bkdn:	Gal - BBI		Pad:	BBI - Gal
Average	Frac Gradient	Treatment	Gal - BBI		Disp:	BBI - Gal 17
Shut In: Instant	5 Min	Cement Slurr	Gal - BBI	118	Total Volume	Gal - BBI
	15 Min					

JOB LOG

ORDER NO. 70006

TICKET #	786710	TICKET DATE	AUG 1 2000
BDA / STATE	KANSAS	COUNTY	STEVEN
PSL DEPARTMENT	ZI	CUSTOMER REP / PHONE	ORIGINAL
API / UWI #		JOB PURPOSE CODE	035 AUG 29 2000

REGION	North America	W/COUNTRY	mid Cont.
MBU ID / EMP #	0102 188624	EMPLOYEE NAME	BE Jackson
LOCATION	LIBERAL	COMPANY	ANADARKA PET. CORP
TICKET AMOUNT	8482.65	WELL TYPE	GAS
WELL LOCATION	Hugoton	DEPARTMENT	501
LEASE / WELL #	H.V. CHRISTOPHER A-1	SEC / TWP / RNG	3-33W-39W

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
J. Jackson 188624 4.5			
T. Davis 106304 4.5			
J. Fuller 207238 4.5			
J. Stanley 17974 4.5			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100							Called out 1100
	1230							on location -
	1550							Rig RHT TUBING & FLANGE UP.
	1600		30					1000 TEST CASING & PORT COLLAR - OK
	1605							PUMP H ₂ O - MF - H ₂ O 10/10/10 BBL'S
	1608	5.5	95					015 BBL'S RETURNS TO SURFACE
	1625	"	23					1600 START MIXING & PUMPING LEAD SLURRY
	1630	4-	13					600 START " " TAIL SLURRY
	1630							500 START DISPLACEMENT
	1655		25					2000 CLOSE PORT COLLAR & TEST - OK
	1504							- REVERSE CUR -
								FINISH - 3+ BBL'S RETURN -

RELEASED

NOV 12 2002

FROM CONFIDENTIAL