

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

API NO. 15- 189-22326-0000
County STEVENS
C - SW - SE Sec. 28 Twp. 32 Rge. 35 X W E

Operator: License # 4549
Name: ANADARKO PETROLEUM CORPORATION
Address P. O. BOX 351
City/State/Zip LIBERAL, KANSAS 67905-0351

660 Feet from X (circle one) Line of Section
1980 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name HJV MILLER "A" Well # 1

Purchaser: ANADARKO ENERGY SERVICES
Operator Contact Person: SHAWN YOUNG
Phone (316) 624-6253

Field Name NORTHWOODS
Producing Formation L. MORROW
Elevation: Ground 2988 KB

Contractor: Name: NORSEMAN DRILLING
License: 3779
Wellsite Geologist:

Total Depth 6450 PBDT 6034
Amount of Surface Pipe Set and Cemented at 1769 Feet
Multiple Stage Cementing Collar Used? X Yes No

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

If yes, show depth set 3389 Feet
If Alternate II completion, cement circulated from
feet depth to w/ sx cmt.
Drilling Fluid Management Plan AH-1, 5-8-00 UC
(Data must be collected from the Reserve Pit)

If Workover: Operator:
Well Name:
Comp. Date Old Total Depth

Chloride content 1100 ppm Fluid volume 700 bbls
Dewatering method used DRY, BACKFILL & RESTORE LOCATION
Location of fluid disposal if hauled offsite:

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No.
 Dual Completion Docket No.
 Other (SWD or Inj?) Docket No.
12-9-1999 12-20-1999 1-8-2000
Spud Date Date Reached TD Completion Date

Operator Name
Lease Name License No.
 Quarter Sec. Twp. S. Rng. E/W
County Docket No.

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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 3-9-2000
Subscribed and sworn to before me this 9th day of March
Notary Public Shirley J Childers
Date Commission Expires

NOTARY PUBLIC - State of Kansas
SHIRLEY J. CHILDERS
My Appt. Exp. 11/14/02

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 MILLER "A" Well # 1

Sec. 28 Twp. 32 Rge. 35 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, BHC SONIC.

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
CHASE	2636	
COUNCIL GROVE	2966	
B/HIEBNER	4224	
MARMATON	5014	
MORROW	5644	
CHESTER	5972	
STE. GENEVIEVE	6218	
ST. LOUIS	6302	

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	1769	CLASS C/ CLASS C.	400/100	3%CC, 1/2#/SK CF
PRODUCTION	7-7/8"	5-1/2"	15.5	6098	50/50 POZ/ 50/50 POZ.	25/100	.75% HALAD 322, 10% SALT, 1/2#/SK CF/SAME.
			F.O. TOOL @	3389	MIDCON 2/ 50/50 POZ	50/50	3%CC, 1/2#/SK CF/ .75% HALAD 322, 10% SALT, 1/2#/SK CF.

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
3	5946-52.	ACID: 600 GAL 7% HCL.	5946-52
		FRAC: 24,000 GAL FOAMED GEL & 30,000#	5946-52
		16/30 SD.	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 3-8-2000 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1300			

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.) Open Hole Perf. Dually Comp. Commingled 5946-52.

Other (Specify) _____

SAT 12-11-99

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ORIGINAL

COPY

#Name?

Schlumberger
Dowell

Service Order

Customer ANADARKO PETROLEUM CORPORATI			Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 12/09/1999		Job Number 20136411		
Well Name and Number HJV MILLER A-1			Legal Location 28-32S-35W		Field HUGOTON		County STEVENS		State/Province KS		
Rig Name NORSEMAN 1			Well Age New		Sales Engineer Stephen Cole			Job Type Cem Surface Casing			
Time Well Ready: 12/10/1999		Deviation 0 °		Bit Size 12.3 in	Well MD 1,770 ft	Well TVD 1,770 ft	BHP psi	BHST 80 °F	BHCT 80 °F		
Treat Down Casing	Packer Type None	Packer Depth ft	WellHead Connection 8 5/8 HS&M		HHP on Location 0	Max Allowed Pressure		Max Allowed Ann Pressure			
Casing					Services Instructions: 400 SK LEAD @ 11.4 PPG 100 SK TAIL @ 14.8 PPG 5-6 BPM KGG MAR 09 2000 CONFIDENTIAL Extra Equipment: 8 5/8 FLOAT EQUIPMENT: TX PTN GUIDE SHOE ORFICE FILL INSERT BASKET 5 CENTRALIZERS TOP PLASTIC PLUG THREADLOCK KIT						
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread							
1770	8.63	24	WC-50	8RD							
Tubing											
Depth,	Size, in	Weight, lb/ft	Grade	Thread							
0	0	0									
0	0	0									
Perforated Intervals											
Top, ft	Bottom, ft	spf	No. of Shots	Total Interval							
				ft							
				Diameter							
				in							

Contact	Voice	Mobile	FAX	Notes
Jim Barlow	316-629-4350	281-543-2343	316-624-8396	
Stephen Cole	316-624-8432	405-880-3396	316-624-7341	

NORSEMAN 1, SERGIO

Notes:

Brawley }
Dutton } SAT 12-11-99
Rupp } Cementing @ ± 09:30

RELEASED

Directions:
JCT MOSCOW/HOOKER RD & HWY 56 - 5.25 S - 4 E - 1.5 S - 1/2 E - N into.

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Other Notes:

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Comments:

HJV Miller A-1

Fluid Systems:

LEAD			
400 SK C + 3% D79 + 1/2 PPS d29			
Density:	11.4 lb/gal	Thickening Time:	
Yield:	2.87 ft ³ /sk	Viscosity:	cp
H2O Mix:	17.7 gal/sk	Break Time:	
H2O:	7080 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl/ Amount	Total Quantity	
D029	0.5 lbs/sk	200	
D079	3 % BWOB	1128	
D903 'C'	94 lbs/sk	37600	

TAIL			
100 SK C + 2% S1 + 1/4 PPS D29			
Density:	14.8 lb/gal	Thickening Time:	2
Yield:	1.32 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.34 gal/sk	Break Time:	
H2O:	634 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl/ Amount	Total Quantity	
D029	0.25 lbs/sk	25	
S001	2 % BWOB	188	
D903 'C'	94 lbs/sk	9400	

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SEP 15 2005

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HALLIBURTON

JOB SUMMARY 4239-1

350314

12-20-99

REGION North America	COUNTRY MidCont USA	BDA / STATE Ks	COUNTY Stevens
MBU ID / EMP # MCL10110 106328	EMPLOYEE NAME Nick Kerbe	PSL DEPARTMENT Z1	ORIGINAL
LOCATION Liberal	COMPANY Anadarko Pet Corp	CUSTOMER REP / PHONE Steve Ridenour	
TICKET AMOUNT \$4959.87	WELL TYPE 02	API / UWI #	
WELL LOCATION 2W.4N4E Woods	DEPARTMENT Cement	JOB PURPOSE CODE 035 (Long string)	
LEASE / WELL # HTV-Miller A-1	SEC / TWP / RNG 28-32S-35W		

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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 106328 9			
E. Davis 108220 4			
D. Bennett 125680 5			
Stroud 9			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421270	54						
54218/74202	54						
52947/6611	50						

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 <u>insert</u>	1	H
Float Shoe <u>Filltube</u>	1	O
Guide Shoe <u>R29</u>	1	
Centralizers <u>S-4</u>	16	W
Bottom Plug		
Top Plug <u>S-WAL147</u>	1	C
Head		O
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	In
Perfpac Balls	Qty.	
Other		
Other		
Other		
Other		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
	12-20-99	12-20-99	12-20-99	12-20-99
TIME	1100	1330	2000	2100

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	N	15.5	5-1/2	0	6100'	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	
12-20-99	8 1/2 hrs	12-20-99	1 hr	035
				RELEASED
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TOTAL	8 1/2 hrs	TOTAL	1 hr	

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used

AVERAGE RATES IN BPM

TREATED	Disp.	Overall

CEMENT LEFT IN PIPE

FEET 43' Reason shoe it.

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
Seal	25	58 P2 (H)	B	75% Hplad-322, 10% Salt, 4 Floccs		
Fal	100	" " "	"	" " " "	1128	14.4
MH	10	" " "	"	" " " "	"	"
BH	15	" " "	"	" " " "	"	"

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

CONFIDENTIAL JOB LOG 4239-5 350314 12-20-99

REGION: North America COUNTRY: MidCont USA BDA / STATE: Ks COUNTY: Stevens

MBU ID / EMP #: MCL1010 106328 EMPLOYEE NAME: Nick Karbe PSL DEPARTMENT: 2 / ORIGINAL

LOCATION: Liberal COMPANY: A. P. C. CUSTOMER REP / PHONE: Steve Kidenour

TICKET AMOUNT: \$4959.87 WELL TYPE: 02 API / UWI #

WELL LOCATION: #1W4NAP Woods DEPARTMENT: Cement JOB PURPOSE CODE: 035

LEASE / WELL #: HTV-Miller A-1 SEC / TWP / RNG: 28-32S-35W

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 106328 9			
E. Davis 106220 4			
D. Bennett 125680 5			
Strand 9			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	1100 1330							called out ap loc Hold safety mtg set up trucks
	1615 1920							ST FE Break circ 1900
	1956 1957	2	3/3			4000		Test Plug RH & MH 1919 2000 CONFIDENTIAL
	2006	5	0			350		start
	2008	5	8/0			350		st S.F.
	2011	5	10/0			350		st wtr
	2022	6	8/0			350		st scan, cont 25 sks @ 10 #
	2026	6	24/0			300		st TL cont 100 sks @ 14.9 #
	2030		2.5					end cont
	2031							wash pump & line
	2034							rel plug
	2035	6	0			100		st disp
	2053	6	110			175		catch cont
	2058	2.2	135			300		slow rate
	2102	2.2	144			450/350		Blow plug
	2103							rel plug flood held

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Wichita, Kansas

Job complete
Thank you
Nick & crew

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REGION North America	EMPLOYEE NAME M. O. CONTINENT	BDA / STATE KANSAS	COUNTRY STRECHS
MBU ID / EMP # 170206	EMPLOYEE NAME Arrington	PSL DEPARTMENT Tools	ORIGINAL
LOCATION Liberal,	COMPANY Anadarko Petro	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI # N/A	
WELL LOCATION woods, Ks.	DEPARTMENT 5002	JOB PURPOSE CODE 198 (Post collar)	
LEASE / WELL # H-T Miller A-1	SEC / TWP / RNG 28-32-35		

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
Arrington 105808			KCC
			MAR 09 2000

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420341	40						

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

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
12-30-99	06:00	12-30-99	07:00	12-30-99
			08:20	18:00

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug		
Head		
Packer		
Other P/C	1	HES

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	NEW	15.5	5 1/2	0	4100	
Liner						
Liner						
Tbg/D.P.	NEW	4.9	2 3/8	0	3389	
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

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. _____
 NE Agent _____ Gal. _____
 Fluid Loss _____ Gal/Lb _____
 Gelling Agent _____ Gal/Lb _____
 Fric. Red. _____ Gal/Lb _____
 Breaker _____ Gal/Lb _____
 Blocking Agent _____ Gal/Lb _____
 Perpac Balls _____ Qty. _____
 Other _____
 Other _____
 Other _____
 Other _____

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
12-30		12-30		C. H. P/C - 7100588
				RELEASED
				APR 25 2002
				FROM CONFIDENTIAL
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED Avail. _____ Used _____

TREATED AVERAGE RATES IN BPM
 Disp. _____ Overall _____

FEET CEMENT LEFT IN PIPE
 Reason _____

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	50	P+mc	B		3.22	11.1
1	50	50/50/100	B	.75% H9194 322, 10% SG 17, 1/4" pcc 10	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 12 1/2
 Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - (BBI) 25.66.0 11 P.C.
 Total Volume Gal - BBI _____

REGION North America	NWACOUNTY	BDA / STATE	COUNTY
MBU ID / EMP # 11206	EMPLOYER NAME Halliburton	PSL DEPARTMENT	ORIGINAL
LOCATION Wichita	COMPANY Halliburton	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE 02	API / UWI #	KCC
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	MAR 09 2000
LEASE / WELL #	SEC / TWP / RNG	CONFIDENTIAL	

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
								12-30-99
	0600							Called out
	0700							ON LOCA.
	0710							Set up Serv unit to Pick-up tools (Cold-Halliburton)
	0820							Start Tools -
	1300							Locate P/C @ 3399'
	1430							Put unit on LOCA.
	1515							Test Lines + Safety meeting
	1525	2	15			400		Circ. To Pit
	1530	3/4	20			200		Mix Cut 17/11
	1540	2	12 1/2			200		Disp
	1545							Shut down + Close tool
	1550	1	1			1500		Test Tool
	1600	3	0			900		Rev. O.T
	1610	3	20			600		Shutdown - Rig Down Cut Eqp. + Setup
	1635	-	-			-		T. L. H. w/ more tubing.
	1745							Shutdown - Done.
	1800							LEAVE LOCA.

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