

CONFIDENTIAL

FORM MUST BE TYPED

SIDE ONE

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- 067-21466-0000
County GRANT
5' N & 5' W OF _____ E
_____ C _____ SE _____ SE Sec. 35 Twp. 29S Rge. 35 X W

Operator: License # 4549

335 Feet from X (circle one) Line of Section

Name: ANADARKO PETROLEUM CORPORATION

335 Feet from X (circle one) Line of Section

Address P. O. BOX 351

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

City/State/Zip LIBERAL, KANSAS 67905-0351

Lease Name HJV CROCKER "A" Well # 1

Purchaser: NATIONAL COOPERATIVE REFINING ASSOCIATION

State Name RYUS E. **KCC**

Operator Contact Person: SHAWN YOUNG

Producing Formation KANSAS CITY "A" **OCT 16 2000**

Phone (316) 624-6253

Evaluation: Ground 3021.4 **CONFIDENTIAL**

Contractor: Name: NORSEMAN DRILLING

Depth 5700 PBDT 5350

License: 3779

Age of Surface Pipe Set and Cemented at 1840 Feet

Wellsite Geologist: _____

Multiple Stage Cementing Collar Used? X Yes _____ No

Designate Type of Completion

If Yes, show depth set 3238 Feet

X New Well _____ Re-Entry _____ Workover

If Alternate II completion, cement circulated from _____

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

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan Alt 1 5/9/01 JB
(Data must be collected from the Reserve Pit)

If Workover:

NOV 12 2002

Operator: _____

Chloride content 2500 ppm Fluid volume 700 bbls

Well Name: _____

FROM CONFIDENTIAL

Dewatering method used DRY, BACKFILL & RESTORE LOCATION

Comp. Date _____ Old Total Depth _____

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. _____

Operator Name _____

Lease Name _____ License No. _____

8-4-2000 8-17-2000 9-13-2000
Spud Date Date Reached TD Completion Date

_____ 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 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.

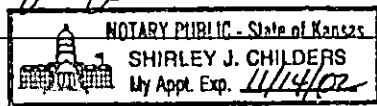
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature L. Marc Harvey 10-16-00
Title ENGINEERING TECHNICIAN III Date 10-16-00

Subscribed and sworn to before me this 16th day of October
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)

SIDE TWO

CONFIDENTIAL

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name HJIV-CROCKER Well # 1

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

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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHASE	2506	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COUNCIL GROVE	2834	
List All Logs Run: CBL-CCL-GR, DIL, CNL-LDT-ML, SONIC.		B/HEEBNER	4000	
		MARMATON	4706	
		MORROW	5283	
		STE. GENEVIVE	5606	

CASING RECORD							
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"	24.0	1840	CLASS C/ CLASS C.	450/100	3%D29, .2%D46, %#/SK CF/2%D29, %#/SK CF.
PRODUCTION	7-7/8"	5-1/2"	15.5	6365	15/85 POZ C/ CLASS H.	190/75	8%GEL, 10%SALT, %#/SK CF/2%GEL, 10%SALT, %#/SK CF.
			PORT COLLAR @	3238	15/85 POZ C/ 50/50 POZ C.	50/50	NONE/.75%FLAC, 10% SALT, 2%GEL, %#/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
4	5380-98, RBP @ 5350.	ACID: 1800 GAL 15% HCL.	5380-98.
		FRAC: 29,000 GAL GEL & 46,000# 12/20 SD.	5380-98.
6	4540-60	ACID: 2000 GAL 15% HCL.	4540-60.

TUBING RECORD	Size 2-7/8"	Set At 4647'	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. 10/4/2000	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
--	--

Estimated Production Per 24 Hours	Oil 376 Bbls.	Gas 0 Mcf	Water 205 Bbls.	Gas-Oil Ratio TSTM	Gravity 41.5
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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: 4540-4560 OA.

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Service Order

OCT 16 2000

06-Aug-00

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Schlumberger
Dowell

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		OrderDate 8/3/00		Job Number 20171771	
Well Name and Number HJV CROCKER A-1		Legal Location 35-29S-35W		Field RYUS E.		County GRANT		State/Province KS	
Rig Name NORSMAN 3		Well Age New		Sales Engineer Stephen Cole		Job Type Cem Surface Casing			
Time Well Ready: 8/6/00 3:30 AM		Deviation		Bit Size 12.3 in		Well MD 1,842 ft		Well TVD 1,842 ft	
BHP psi		BHST 80 °F		BHCT 80 °F					
Treat Down Casing		Packer Type None		Packer Depth ft		Wellhead Connection Single cement head		HHP on Location 0	
Max Allowed Pressure		Max Allowed AnnPressure							
Casing					Services Instructions:				
Depth, ft		Size, in		Weight, lb/ft		Grade		Thread	
1840 1839		8.62		23		WC-50		8RD	
Tubing					Extra Equipment: 8 5/8" TX ptr guide shoe Orifice fill insert float 4 centralizers 1 basket Top plastic plug 1 threadlock kit				
Depth,		Size, in		Weight, lb/ft					
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	316-629-4321	ANADARKO
Dick Collins	RIG3 621-3534	316-621-3542		NORSMAN DRILLING
Stephen Cole	316-624-8432	405-880-3396	316-624-8432	PAGER 353-0515

RECEIVED
STATE CORPORATION COMMISSION

Notes:
 Soon as get on location, check water, get out press mud scale, clean it, lube it
 Hook up PRISM, do sensor verification, check compressors, fluff cement trucks

OCT 18 2000
RELEASED
 NOV 12 2002
 CONSERVATION DIVISION
 Wichita, Kansas

Directions:
 Ulysses East To Jct 190&160 South To Ryus 1 south On Dirt Rd West & North Into.

FROM CONFIDENTIAL

Other Notes:
 If float does not hold, or lose circulation, or any other unusual conditions, document it with your ink pen in the job file and (for xxxxxx's sake) let the manager on call know about it when it happens.

Comments:
 Anadarko
 HJV Crocker A1
 8 5/8 surface

Fluid Systems:

LEAD			
450 SK C + 3% D79 = 0.2% D46 + 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:	7965 gal	Eq. Sack Weight:	94 lb
Dowell Code	Concl/ Amount	Total Quantity	
D046	0.2 % BWOB	84.6	
D029	0.5 lbs/sk	225	
D079	3 % BWOB	1269	
D903 'C'	94 lbs/sk	42300	

TAIL			
100 SK C + 2% S1 + 1/4 PPS D29			
Density:	14.8 lb/gal	Thickening Time:	
Yield:	1.34 ft ³ /sk	Viscosity:	cp
H2O Mix:	6.36 gal/sk	Break Time:	
H2O:	636 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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18-Aug-00

OCT 16 2000

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Schlumberger
Dowell

Service Order

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Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Stephen Cole		Dowell Location Ulysses, KS		Order Date 8/18/00		Job Number 20194002	
Well Name and Number HJV CROCKER A-1			Legal Location 35-29S-35W		Field RYUS E.		County GRANT		State/Province KS
Rig Name NORMAN 3		Well Age New	Sales Engineer Stephen Cole			Job Type Cem Prod Casing			
Time Well Ready: 8/18/00 10:30 AM		Deviation .	Bit Size 7.63 in	Well MD 5,700 ft	Well TVD 5,700 ft	BHP psi	BHST 80 °F	BHCT 80 °F	
Treat Down Casing	Packer Type None	Packer Depth ft	Wellhead Connection Single cement head		HHP on Location 0	Max Allowed Pressure 2000		Max Allowed Ann Pressure	
Casing					Services Instructions:				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
5685	5700	5.5	15.5	K55					
Tubing					Extra Equipment: 8 5/8" TX ptn guide shoe Orifice fill insert float 4 centralizers 1 basket Top plastic plug 1 threadlock kit				
Depth,	Size, in	Weight, lb/ft	Grade	Thread					
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	316-629-4321	ANADARKO
Dick Collins	RIG3 621-3534	316-621-3542		NORMAN DRILLING
Stephen Cole	316-624-8432	405-880-3396	316-624-8432	PAGER 353-0515

Notes:
 Soon as get on location, check water, get out press mud scale, clean it, lube it
 Hook up PRISM, do sensor verification, check compressors, fluff cement trucks

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 FROM CONFIDENTIAL

Directions:
 Ulysses East To Jct 190&160 South To Ryus 1 south On Dirt Rd West & North Into.

Other Notes:
 If float does not hold, or lose circulation, or any other unusual conditions, document it with your ink pen in the job file and (for xxxxxx's sake) let the manager on call know about it when it happens.

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Comments:

Anadarko
HJV Crocker A1
8 5/8 surface

0

0005 0 : 100
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Fluid Systems:

LEAD

190 SK 15/85 (Poz/C) + 8% D020 + 10% D044(BWOW) + 1/4 pps D029

Density:	12.8 lb/gal	Thickening Time:	
Yield:	1.99 ft ³ /sk	Viscosity:	cp
H2O Mix:	10.8 gal/sk	Break Time:	
H2O:	2052 gal	Eq. Sack Weight:	91.75 lb

Dowell Code	Concl Amount	Total Quantity
D046	0.2 % BWOB	34.865
D020	8 % BWOB	1394.6
D044	10 % BWOW	1711.368
D029	0.25 lbs/sk	47.5
D132	11.85 lbs/sk	2251.5
D903	79.9 lbs/sk	15181

TAIL

75 SK 50/50 (H/Poz) + 2% D020 + 10% D044 (BWOW) + 1/4 PPS D29

Density:	14.4 lb/gal	Thickening Time:	
Yield:	1.34 ft ³ /sk	Viscosity:	cp
H2O Mix:	5.99 gal/sk	Break Time:	
H2O:	449.25 gal	Eq. Sack Weight:	86.5 lb

Dowell Code	Concl Amount	Total Quantity
D046	0.2 % BWOB	12.975
D044	10 % BWOW	374.6745
D060	0.75 % BWOB	48.65625
D020	2 % BWOW	74.9349
D029	0.25 lbs/sk	18.75
D132	39.5 lbs/sk	2962.5
D909	47 lbs/sk	3525

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OCT 16 2000

29-Aug-00

Service Order CONFIDENTIAL

Schlumberger
Dowell

Customer ANADARKO PETROLEUM CORPORATI		Person Taking Call Dave Brawley		Dowell Location Ulysses, KS		Order Date 8/29/00		Job Number 20175543	
Well Name and Number HJV CROCKER A1			Legal Location		Field RYUS E.		County		State/Province KS
Rlg Name		Well Age New	Sales Engineer Dave Brawley			Job Type Cem Top Outside Case			
Time Well Ready: 8/29/00 12:00 PM		Deviation 0	Bit Size 0 in	Well MD 0 ft	Well TVD 0 ft	BHP 0 psi	BHST 0°F	BHCT 0°F	
Treat Down Tubing	Packer Type	Packer Depth 3238 3238 ft	Wellhead Connection 2 7/8" 6.5# T/S		HHP on Location 0	Max Allowed Pressure 0		Max Allowed Ann Pressure 0	
Casing					Services Instructions: Safety Cement Port Collar as requested by customer.				
Depth, ft	Size, in	Weight, lb/ft	Grade	Thread					
0	0	0							
0	0	0							
Tubing					Extra Equipment: RELEASED NOV 12 2002 FROM CONFIDENTIAL				
Depth, ft	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					
0	0	0	0	0 ft					
0	0	0	0	Diameter					
0	0	0	0	0 in					

Contact	Voice	Mobile	FAX	Notes
Bill Glick	316-544-6205	281-543-2341		

Notes:

Directions:
UKS east to 190, south to Ryus, 1 south, west into.

Other Notes:

Comments:

Cmt. Part Collar

Fluid Systems:

Lead			
50 sks 15/85 Poz/C			
Density:	11.1 lb/gal	Thickening Time:	+8hrs
Yield:	3.22 ft ³ /sk	Viscosity:	cp
H2O Mix:	20.3 gal/sk	Break Time:	
H2O:	1015 gal	Eq. Sack Weight:	91.75 lb
Dowell Code	Concl Amount	Total Quantity	
D132	11.85 lbs/sk	592.5	
D903	79.9 lbs/sk	3995	

*- extender
- cement*

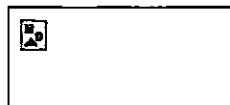
Tail			
50 sks 50/50 Poz/C			
Density:	14.4 lb/gal	Thickening Time:	3 hrs
Yield:	1.29 ft ³ /sk	Viscosity:	cp
H2O Mix:	5.7 gal/sk	Break Time:	
H2O:	285 gal	Eq. Sack Weight:	86.5 lb
Dowell Code	Concl Amount	Total Quantity	
D060	0.75 % BWOB	32.4375	
D029	0.25 lbs/sk	12.5	
D044	10 % BWOW	237.69	
D020	2 % BWOB	86.5	
D132	39.5 lbs/sk	1975	
D903	47 lbs/sk	2350	

*- FLAC
- cellophane flakes
- Salt
- Bentonite
- extender
- cement*

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SUMMARY OF ROUTINE CORE ANALYSES RESULTS

Dean Stark Samples

Anadarko Petroleum Corporation
HJV Crocker #A1

Grant County, Kansas
File: H-3403

Core Number	Sample Number	Sample Depth, feet	Permeability, millidarcys		Porosity, percent	Grain Density, gm/cc	Water Saturation	Oil Saturation	Total Saturation	Lithologic Description
			to Air	Klinkenberg			percent	percent	percent	
			800 psi	800 psi	800 psi	800 psi	800 psi			
1	1-1	4548.20	5.26	3.98	18.6	2.70	49.9	6.6	56.4	Ls, fxl, intrapar, ool, ppvgs
1	1-2	4549.20	11.3	8.91	19.4	2.72	47.5	9.2	56.7	Ls, fxl, intrapar, ool, ppvgs
1	1-3	4550.40	12.1	9.57	21.8	2.69	47.9	7.0	54.9	Ls, fxl, intrapar, ool, ppvgs
1	1-4	4551.20	5.30	4.04	17.0	2.70	37.9	9.9	47.8	Ls, fxl, intrapar, ool, ppvgs
1	1-5	4552.20	10.6	8.37	28.7	2.70	35.1	7.2	42.4	Ls, fxl, intrapar, ool, ppvgs
1	1-6	4553.20	15.5	12.5	24.7	2.70	35.3	5.1	40.4	Ls, fxl, intrapar, ool, ppvgs
1	1-7	4554.20	8.29	6.45	25.0	2.70	38.1	5.8	44.0	Ls, fxl, intrapar, ool, ppvgs
1	1-8	4555.40	2.30	1.72	28.8	2.69	57.8	3.8	61.6	Ls, fxl, intrapar, ool, ppvgs
1	1-9	4556.20	0.292	0.197	27.0	2.69	59.7	3.8	63.4	Ls, fxl, intrapar, ool, ppvgs
1	1-10	4557.20	0.152	0.094	23.2	2.69	73.8	4.5	78.3	Ls, fxl, intrapar, ool, ppvgs
1	1-11	4558.20	0.498	0.361	27.2	2.69	61.4	3.6	65.0	Ls, fxl, intrapar, ool, ppvgs
1	1-12	4559.20	0.183	0.116	31.7	2.70	56.9	3.9	60.8	Ls, fxl, intrapar, ool, ppvgs
1	1-13	4560.20	0.915	0.668	30.0	2.70	53.2	7.1	60.3	Ls, fxl, intrapar, ool, ppvgs
1	1-14	4561.20	0.415	0.291	29.3	2.70	53.5	6.3	59.8	Ls, fxl, intrapar, ool, ppvgs
1	1-15	4562.20	3.92	2.95	30.0	2.71	53.3	5.7	59.0	Ls, fxl, intrapar, ool, ppvgs
1	1-16	4563.20	6.44	4.97	26.2	2.70	55.7	4.2	59.9	Ls, fxl, intrapar, ool, ppvgs
1	1-17	4564.40	6.50	5.00	32.3	2.70	57.6	2.0	59.6	Ls, fxl, intrapar, ool, ppvgs
1	1-18	4565.20	3.24	2.42	34.6	2.71	54.0	3.9	57.9	Ls, fxl, intrapar, ool, ppvgs
1 F	1-19	4566.40	18.0	14.5	11.9	2.71	68.6	9.6	78.3	Ls, fxl, intrapar, intpar, ool, ppvgs, styl, fos
1	1-20	4567.45	0.552	0.402	25.2	2.71	58.2	5.1	63.2	Ls, fxl, intrapar, ool, ppvgs, fos
1	1-21A	4568.20	0.012	0.0043	10.4	2.73	65.7	8.5	74.2	Ls, fxl, intrapar, ool, ppvgs, fos

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1	1-22	4569.20		+	3.4	2.71	42.5	5.4	47.9	Ls, fxl, intxl, styl, frac
1	1-23	4570.20	0.0051	0.0015	3.4	2.70	73.7	7.3	81.1	Ls, fxl, intxl
1	1-24	4571.50	0.0021	0.0005	1.0	2.70	72.5	1.9	74.3	Ls, fxl, intxl, fd frac
1	1-25A	4572.50	0.0024	0.0006	2.8	2.71	46.5	3.2	49.7	Ls, fxl, intxl
1 F	1-26	4573.20	0.033	0.016	1.7	2.70	85.1	1.5	86.5	Ls, fxl, intxl, styl, pof
1 F	1-27	4574.50	0.103	0.060	3.5	2.70	89.5	3.5	93.0	Ls, fxl, intxl, styl
1	1-29	4576.05	0.094	0.054	3.4	2.71	93.8	3.8	97.6	Ls, fxl, intxl, styl, pof
1	1-28	4576.60	0.015	0.0058	4.9	2.70	78.5	4.8	83.3	Ls, fxl, intxl
1	1-30A	4577.40	0.012	0.0047	3.8	2.71	52.3	5.8	58.1	Ls, fxl, intxl
1 F	1-31	4578.50	0.471	0.339	4.7	2.71	76.6	6.4	83.0	Ls, fxl, intxl, pof
2	2-1	5313.90	0.0004	0.0000	0.3	3.24	96.4	0.0	96.4	Dol, xln, ool, pyr
2	2-2	5314.40	0.0004	0.0000	0.0	3.19	91.5	0.0	91.5	Dol, xln, ool, pyr
4	4-1	5381.05	0.060	0.032	1.0	2.72	87.2	6.5	93.7	Ls, xln, v foss
4	4-2	5386.50	0.058	0.031	1.0	2.75	90.5	6.8	97.3	Ls, xln, foss
4	4-3	5387.50	0.039	0.019	2.3	2.70	91.5	7.3	98.8	Ls, xln, foss
4	4-4	5388.50	3.42	2.57	5.4	2.70	47.5	15.4	62.8	Ls, xln, foss
4	4-5	5389.50	7.80	6.06	7.1	2.71	27.3	19.0	46.3	Ls, xln, foss
4	4-6	5390.50	1.97	1.44	5.0	2.70	53.3	17.3	70.5	Ls, xln, foss
4	4-7	5391.35	0.262	0.174	4.1	2.74	40.8	17.8	58.5	Ls, xln, foss
4	4-8	5392.60	0.019	0.0080	2.1	2.71	83.6	8.3	91.9	Ls, xln, foss
4	4-9	5393.50	0.091	0.052	2.4	2.72	71.8	1.8	73.6	Ls, xln, foss
4	4-10	5394.45	3.42	2.56	4.4	2.73	59.8	14.4	74.2	Ls, xln, foss
4	4-11	5395.45	0.011	0.0040	1.0	2.70	83.0	6.2	89.2	Ls, xln, foss
4	4-12	5396.16	0.156	0.097	1.7	2.71	92.5	7.9	100.4	Ls, xln, foss
	Average		3.75	2.93	17.9	2.70	59.1	5.4	64.5	

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+ denotes samples unsuitable for permeability measurement - ambient porosity reported
F denotes samples with filled fractures

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