

N.E.B. COPY

Geological Report

on

Anadarko Arrowhead River K-35

Arrowhead River K-35

**Well Reached Total Depth on
Mar 25, 2003 @ 11:50**

for

Anadarko Canada Corporation

Prepared For: Mike Fawcett, Ben Urlwin
Anadarko Canada Corporation

Prepared By: Erika Lange
K.C. Waunch Petroleum Consultants L

Erika Lange

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Well Summary

Storage Units: Metric

Well Information

Operator: Anadarko Canada Corporation
Well Name: Anadarko Arrowhead River K-35
Location: Arrowhead River K-35
UWI: 300K356040122450
Pool: Slave Point
Field: Arwhd River
State / Province: NWT
Country: Canada
License Number: 1991
Well Status: Set surface casing, waiting for next winter

Surface Co-ordinates

N / S: 60 34 38 1 N
E / W: 122 51 47 2

Hole Type:
Latitude:

Fault Indicator:
Longitude:

Bottom Hole Co-ordinates

Latitude:

Longitude:

N / S:
E / W:

Elevations

Ground Elevation:	541.70	Kelly Bushing to Ground:	541.7
Kelly Bushing Elevation:	546.73	Cut (-):	5.03
Casing Flange Elevation:		Fill (+):	

Total Depth

Total Depth Driller (Tally) :
Total Depth Driller (Strap or SLM):
Total Depth Logger:

Measured Depth
652.00

True Vertical Depth
652.00

Miscellaneous Depths

Plugback Depth:	Water Depth Reference: 100
Sidetrack Depth:	Water Depth:

Well Summary

Drilling Contractor:	Shehtah Wilson #4	Spud Date:	Mar 21, 2003	@ 01:15
Rig Release Date:	Mar 27, 2003 @ 00:00	Total Depth Date:	Mar 25, 2003	@ 11:50

Cores # Formation

Interval	Cut	Recovered	%
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Casing Summary

Casing Type	Casing Size	Landed Depth	Hole Size
Surface	244.5	650.00	311.0

Logging Summary

Company	Engineer	Total Depth (MD)	Logging tools
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Daily Drilling Summary

Storage Units: Metric

Date	Depth	Progress	Rotating Hours	Avg. P.R.	Daily Costs	Formation	Operational Status @ Report Time
Mar 24, 03	560.00		8.50			Scatter	Drilling Surface, towards 650m
Mar 25, 03	644.00		9.20			Garbutt	Tripping back in the hole, to drill to 650m for setting Surface Casing
Mar 26, 03	652.00					Garbutt	Finishing Cementing Surface Casing

Accumulated Daily Costs:

Anadarko Canada Corporation
UWI 300K356040122450

Anadarko Arrowhead River K-35
Arrowhead River K-35
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Casing Data Summary

Storage Units: Metric

Casing Type: Surface

Casing Size: 244.5

Hole Size: 311.0

Casing Landed @: 650.00

Total Joints: 50

Casing Date: Mar 25, 2003 @ 00:00

Plug Down Date: Mar 26, 2003 @ 00:00

of Joints / Length / O.D. / Weight: 50; 13m; 244.5mm; 59.6kg/m

Cementing Details:

Remarks:

Bit Record

Pump Data

Pump #1	Model: 8-p-80	Size: 80	Type: triplex
Pump Rod Diameter:		Liner Size: 152.0	Stroke Length: 203
Efficiency Rating (%):	90		
Pump #2	Model:	Size:	Type:
Pump Rod Diameter:		Liner Size:	Stroke Length:
Efficiency Rating (%):			

Bit Data

						Storage Units:	Metric
Bit #:	1	Make:	Smith	Type:	SDGH	IADC Series / Type:	/
Serial #:	YD1813	Size:	311.0 Jets / Nozzles:		15.90 / 15.90 / 15.90 /	T.F.A.:	
Depth In:	0.00	Depth Out:	176.00	Made:	176.00	Rotating Hours:	13.74
				Average Drill Rate:	12.81	Total Rotating Hours:	13.74
Bit Grade / Condition	I.A.D.C.: 2 / 2 / WT / A	/	/	/	/	T / B / G:	2 / 2 / 1
Remarks:							
Formations Drilled:	Surface						
Drilling Parameters							
Force on Bit:	2,000	/	8,000		R.P.M.:	65	/ 140
Pump 1 S.P.M. / Volume:	85	/	1,239	Pump 2 S.P.M. / Volume:			
S.P.P.:	2,469	/	6,000	Fluid Density:	1,060	/	1,100
Drift Angle:	0.000	/	1.000	Funnel Viscosity:	40	/	67
Annular Velocity	Drill Collars:			HeavyWeight Drill Pipe:		Drill Pipe:	
Bottoms Up	Depth:			Theoretical:		Actual:	
Bit #:	2	Make:	Hughes	Type:	SDGH	IADC Series / Type:	/
Serial #:	YD813	Size:	311.0 Jets / Nozzles:		14.30 / 14.30 / 12.70 /	T.F.A.:	
Depth In:	176.00	Depth Out:	483.00	Made:	307.00	Rotating Hours:	16.25
				Average Drill Rate:	18.89	Total Rotating Hours:	29.99
Bit Grade / Condition	I.A.D.C.: 2 / 3 / CT / A	/	/	/	/	T / B / G:	2 / 3 / 1
Remarks:							
Formations Drilled:							
Drilling Parameters							
Force on Bit:	7,000	/	11,000		R.P.M.:	120	/ 140
Pump 1 S.P.M. / Volume:	105	/	1,239	Pump 2 S.P.M. / Volume:			
S.P.P.:	2,500	/	9,000	Fluid Density:	1,100	/	
Drift Angle:		/		Funnel Viscosity:			
Annular Velocity	Drill Collars:			HeavyWeight Drill Pipe:		Drill Pipe:	
Bottoms Up	Depth:			Theoretical:		Actual:	

Bit Data

Storage Units: Metric

Bit #:	3	Make:	Smith	Type:	SDGH	IADC Series / Type:	/
Serial #:	YD9033	Size:	311.0	Jets / Nozzles:	15.90 / 15.90 / 15.90 /	T.F.A.:	
Depth In:	483.00	Depth Out:	652.00	Made:	169.00	Rotating Hours:	11.75
				Average Drill Rate:	14.38	Total Rotating Hours:	41.74
Bit Grade / Condition	I.A.D.C.:	3 / 4 / BC / A	/ / /	I / NO / TD / TD	T / B / G: 3 / 4 / 1		
Remarks:							
Formations Drilled:		Scatter, Garbutt					
Drilling Parameters							
		Min	Max			Min	Max
Force on Bit:		11,000	/	12,000	R.P.M.:	120	/ 180
Pump 1 S.P.M. / Volume:		105	/	1,239	Pump 2 S.P.M. / Volume:		/
		S.P.P.:	2,500	/	10,000	Fluid Density:	1,120 /
		Drift Angle:		/		Funnel Viscosity:	75 /
Annular Velocity	Drill Collars:			HeavyWeight Drill Pipe:		Drill Pipe:	
Bottoms Up	Depth:			Theoretical:		Actual:	

Work Schedule

Storage Units: Metric

Company: K.C.Waunch Petroleum Cons Ltd
Geologist: Erika Lange

Work Performed From: Mar 24, 2003 To: Mar 26, 2003
Depths Logged From: 200.0 To: 650.0

Remarks:

Formation Top Summary

Storage Units:

Metric

Kelly Bushing Elevation: 546.73 **Casing Flange Elevation:**
Ground Elevation: 541.70

***** All Depths measured from Kelly Bushing Elevation *****

Group <i>Formation Member</i>	Prognosis (TVD)	Sample Top (MD)	Sample Top (TVD)	Log Top (MD)	Log Top (TVD)	Subsea	Thickness
Surface		0.00	0.00			546.73	505.00
Scatter		505.00	505.00			41.73	47.00
Garbutt		552.00	552.00			-5.27	97.00
Total Depth		652.00	652.00			-105.27	

Sample Descriptions

Storage Units: Metric

Surface: 0.00 MD, 0.00 TVD, 546.73 SSL

200.00 to 230.00 (30.00)	90%	Shale black, dark gray, silty, earthy, slightly micromicaceous, moderately hard, blocky, trace glauconite, quartz
	10%	Sandstone light gray, quartz, trace glauconite, very fine to fine grains, subangular, moderately well sorted, 10% calcite cement, moderately poor relief, fairly tight
230.00 to 235.00 (5.00)	75%	Shale dark gray, as above but less silty
	25%	sandstone as above, but more fine grains
235.00 to 240.00 (5.00)	100%	Shale dark brown black, micromicaceous, earthy, hard, blocky
240.00 to 245.00 (5.00)	60%	Sandstone white gray, quartz, glauconite, occasional mica, very fine to fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight
	40%	Shale dark gray, occasional brown, slightly micromicaceous, hard, blocky, few earthy
245.00 to 250.00 (5.00)	60%	Shale black gray, slightly micromicaceous, hard, mostly blocky, few platy, trace glauconite
	40%	Sandstone white gray, quartz, glauconite, occasional mica, very fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight
250.00 to 255.00 (5.00)	60%	Sandstone brown, quartz, glauconite, very fine grains, subangular to angular, moderately sorted, 10% calcite cement, poor relief, tight
	25%	Shale black, slightly micromicaceous, hard, platy and blocky; trace calcite crystals
	15%	Siderite red to orange, rhy, silty, massive
255.00 to 260.00 (5.00)	60%	Sandstone light gray, quartz, glauconite, very fine to fine grains, subangular, moderately sorted, 30% calcite cement, poor relief, tight
	40%	Shale dark gray, slightly micromicaceous, blocky, silty, occasionally platy and massive

Sample Descriptions

Storage Units: Metric

260.00 to 265.00 (5.00)	70%	Sandstone brown and gray, quartz, trace glauconite, very fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight
	30%	Shale med gray, slightly micromicaceous, moderately hard, blocky and platy
265.00 to 270.00 (5.00)	75%	Sandstone white gray, quartz, trace glauconite, very fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight
	25%	Shale dark gray, occasionally micromicaceous, moderately hard, slightly earthy, blocky
270.00 to 275.00 (5.00)	60%	Sandstone gray, quartz, trace glauconite, and shale, very fine grains, subangular, moderately sorted, 10% calcite cement, poor relief, tight
	40%	Shale dark gray, occasionally micromicaceous, slightly earthy, moderately hard; trace siderite
275.00 to 300.00 (25.00)	80%	Sandstone white, mostly quartz, trace glauconite and shale, mostly very fine grains, subrounded, well sorted, some unconsolidated, moderate relief, Type IB 8% porosity; stringers of consolidated sand with 20 % calcite cement
	20%	Shale black, moderately hard, slightly platy, mostly massive
300.00 to 325.00 (25.00)	80%	Sandstone white and gray, mostly quartz, trglau and shale, very fine to fine grains, subangular to subrounded, well sorted, fairly consolidated, occasional calcite cement, moderate relief, Type IB-IC, 6% porosity
	20%	Shale dark gray, brown, micromicaceous, moderately hard, blocky; trace pyrite
325.00 to 330.00 (5.00)	80%	Sandstone white gray, quartz, glauconite, very fine grains, subrounded, well sorted, 10% calcite cement, poor to moderate relief, fairly tight
	20%	Shale dark gray, hard, mostly blocky
330.00 to 335.00 (5.00)	50%	Sandstone white gray, quartz, glauconite, very fine grains, subangular, well sorted, 20% calcite cement, consolidated, poor relief, tight

Sample Descriptions			Storage Units:	Metric
330.00 to 335.00 (5.00)	50%	Shale 20% gray as above, 30% brown, silty, earthy, hard, blocky		
335.00 to 340.00 (5.00)	50%	Sandstone white gray, quartz, glauconite, very fine grains, subangular, moderately sorted, 20% calcite cement, well consolidated, poor relief, tight		
	50%	Shale as above		
340.00 to 345.00 (5.00)	70%	Sandstone as above		
	30%	Shale dark gray, slightly micromicaceous, hard, blocky		
345.00 to 350.00 (5.00)	70%	Sandstone orange brown, quartz, very fine grains, subangular, moderately sorted, silty, 10% calcite cement, poor relief, tight, earthy		
	30%	Shale dark gray, micromicaceous, hard, massive, blocky		
350.00 to 355.00 (5.00)	70%	Shale black gray, as above		
	30%	Sandstone tl gray, quartz, trace glauconite, very fine grains, subangular, moderately sorted, 20% calcite cement, well consolidated, poor relief, tight		
355.00 to 360.00 (5.00)	90%	Shale black, massive, platy, occasionally micromicaceous, occasional trace glauconite, moderately hard		
	10%	Sandstone as above		
360.00 to 370.00 (10.00)	70%	Shale dark gray, slightly micromicaceous, moderately hard, slightly earthy, blocky; trace pyrite		
	30%	Sandstone white gray, quartz, trace glauconite, very fine to fine grains, subangular to subrounded, well sorted, 20% calcite cement, moderately poor relief, tight		
370.00 to 380.00 (10.00)	50%	Sandstone white and gray, mostly quartz, glauconite, very fine grains, subrounded to angular, moderately sorted, 10% calcite cement, occasionally silty, poor relief, tight		

Sample Descriptions

Storage Units: Metric

370.00 to 380.00 (10.00)	50%	Shale black gray, micromicaceous, moderately hard, slightly rhy, blocky
380.00 to 385.00 (5.00)	50%	Shale as above
	30%	sandstone as above; few stringers of white, fine grain, no cement, moderate relief, 6% porosity grains
	20%	Siltstone light gray, very very fine grains, well consolidated, calcite cement
385.00 to 390.00 (5.00)	80%	Shale dark gray, occasionally brown, slightly micromicaceous, blocky, hard, massive
	20%	Siltstone as above
390.00 to 395.00 (5.00)	70%	Shale as above
	30%	Siltstone as above
395.00 to 445.00 (50.00)	70%	Shale dark gray, slightly micromicaceous, moderately hard, blocky, occl silty
	30%	Sandstone white gray, mostly quartz, glauconite, trace shale, very fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight, stly
445.00 to 470.00 (25.00)	90%	Shale dark gray, micromicaceous, moderately hard, blocky, glauconite associated, occasionally earthy
	10%	Siltstone gray, quartz, glauconite, very very fine grains, moderately sorted, well cemented, well consolidated, tight
470.00 to 480.00 (10.00)	100%	Shale black gray, slightly micromicaceous, hard, rhy, trace glauconite associated, occasionally platy; trace Siltstone
480.00 to 485.00 (5.00)	90%	Shale as above

Sample Descriptions

Storage Units: Metric

480.00 to 485.00 (5.00)	10%	Sandstone white gray, mostly quartz, glauconite, very fine grains, subangular, moderately sorted, 20% calcite cement, poor relief, tight
485.00 to 505.00 (20.00)	85%	Shale dark gray, slightly micromicaceous, platy, earthy, hard
	15%	Sandstone as above

Scatter: 505.00 MD, 505.00 TVD, 41.73 SSL

505.00 to 515.00 (10.00)	50%	Sandstone light gray, occasionally light brown, quartz, glauconite, trace shale, very fine to fine grains, subangular, moderately sorted, occasional 20% calcite cement, moderate and poor relief, occasional 5% porosity
	50%	Shale black gray, slightly micromicaceous, blocky, hard, massive, occasional trace glauconite associated
515.00 to 520.00 (5.00)	60%	Sandstone light gray and light brown, mostly quartz, glauconite, trace shale, mostly fine grains, subangular, moderately well sorted, less calcite cement, moderate relief, Type IB, occasional 8% porosity
	40%	Shale as above
520.00 to 530.00 (10.00)	70%	Sandstone as above
	30%	Shale dark gray = slightly micromicaceous, hard, blocky, slightly earthy; brown = massive, hard blocky
530.00 to 535.00 (5.00)	75%	Shale as above
	25%	Sandstone as above
535.00 to 540.00 (5.00)	40%	Shale light and dark gray, micromicaceous, blocky, hard; trace pyrite
	30%	Sandstone light gray and light brown, quartz, glauconite, trace shale, very fine to fine grains, subangular, moderately sorted, moderate relief, Type IB, 5% porosity

Sample Descriptions

Storage Units: Metric

535.00 to 540.00 (5.00)	30%	Siltstone light brown, massive, blocky, hard
540.00 to 545.00 (5.00)	70%	Shale med gray, slightly micromicaceous, hard, blocky
	30%	Siltstone light brown, massive, hard, silty
Garbutt: 552.00 MD, 552.00 TVD, -5.27 SSL		
545.00 to 555.00 (10.00)	50%	Shale as above
	50%	Siltstone as above
555.00 to 570.00 (15.00)	90%	Shale dark gray and black, slightly micromicaceous, massive, blocky, hard
	10%	Siltstone dark gray, quartz and glauconite, very very fine grains, moderately sorted, well consolidated, hard
570.00 to 615.00 (45.00)	100%	Shale moslty black, occasional brown in upper, dark gray in lower, moderately soft, slightly micromicaceous, blocky and occasionally platy
615.00 to 620.00 (5.00)	85%	Shale as above
	15%	Siltstone dark gray, quartz, well consolidated, tight
620.00 to 625.00 (5.00)	90%	Shale as above
	10%	Siltstone as above
625.00 to 640.00 (15.00)	100%	Shale mostly black, slightly micromicaceous, soft, platy, occasionally blocky
640.00 to 645.00 (5.00)	100%	Shale dark gray, slightly micromicaceous, moderately hard, platy, occasionally blocky; trace pyrite, coal

Sample Descriptions

Storage Units: Metric

Total Depth: 652.00 MD, 652.00 TVD, -105.27 SSL

Well Information

Operator: Anadarko Canada Corporation
Well Name: Anadarko Arrowhead River K-35
Location: Arrowhead River K-35
UWI: 300K356040122450
Pool: Slave Point
Field: Arwhd River
Province / State: NWT
Country: Canada

Elevations

Reference: 541.7
Cut(-) / Fill(+):
K.B. to Ground: 5.03 m
Ground: 541.7 m
Kelly Bushing: 546.73 m
Casing Flange: m

Total Depth

Measurement Type	Measured Depth	True Vertical Depth
Drillers TD (Tally)	652 m	652 m
Drillers TD (Strap or SLM)	m	m
Loggers TD	m	m

Surface Co - Ordinates

Well Type: Straight Longitude: Latitude:
N / S Co - Ordinates: 60 34 38 1 N
E / W Co - Ordinates: 122 51 47 2

Bottom Hole Co - Ordinates

Longitude: Latitude:

N / S Co - Ordinates:
E / W Co - Ordinates:

Drilling Fluid Summary

Fluid Type From To

Casing Summary

Type	Hole Size	Casing Size	Landed At
Surface	311 mm	244.5 mm	650 m

Well Summary

Spud Date: Mar 21, 2003 @ 01:15hrs Contractor: Shehtah Wilson #4
TD Date: Mar 25, 2003 @ 11:50hrs Rig Release Date: Mar 27, 2003

Work Schedule

Contractor	Geologist	Log Interval	Dates Logged
K.C. Wauch Petroleum Cons Ltd	Erika Lange	200 m - 650 m	Mar 24, 2003 - Mar 26, 2003

Remarks**Legend****Rock Types and Thin Beds**

Whole Bed	Stringer	Nodule	Breccia	Clast	Pebble	Grain	Rock Type
■	■	■	■	■	■	■	Anhydrite - primary
■	■	■	■	■	■	■	Anhydrite - secondary
■	■	■	■	■	■	■	Argillite
■	■	■	■	■	■	■	Barite
■	■	■	■	■	■	■	Bentonitic
■	■	■	■	■	■	■	Bituminous
■	■	■	■	■	■	■	Calcareous
■	■	■	■	■	■	■	Cement
■	■	■	■	■	■	■	Conglomerate - mixed
■	■	■	■	■	■	■	Conglomerate - dark chert
■	■	■	■	■	■	■	Conglomerate - light chert
■	■	■	■	■	■	■	Conglomerate - varicolored chert
■	■	■	■	■	■	■	Chert - dark
■	■	■	■	■	■	■	Chert - fossiliferous
■	■	■	■	■	■	■	Chert - light
■	■	■	■	■	■	■	Chert - tripolitic
■	■	■	■	■	■	■	Chert - varicolored
■	■	■	■	■	■	■	Claystone - colored
■	■	■	■	■	■	■	Claystone - gray
■	■	■	■	■	■	■	Coal
■	■	■	■	■	■	■	Dolomite
■	■	■	■	■	■	■	Ferruginous
■	■	■	■	■	■	■	Feldspar
■	■	■	■	■	■	■	Gypsum
■	■	■	■	■	■	■	Igneous - acidic
■	■	■	■	■	■	■	Igneous - basic
■	■	■	■	■	■	■	Igneous - metamorphic
■	■	■	■	■	■	■	Limestone - grain supported
■	■	■	■	■	■	■	Limestone - mud supported
■	■	■	■	■	■	■	Manganese
■	■	■	■	■	■	■	Marlstone - calcareous
■	■	■	■	■	■	■	Marlstone - dolomitic
■	■	■	■	■	■	■	Phosphate
■	■	■	■	■	■	■	Pyrite
■	■	■	■	■	■	■	Quartz
■	■	■	■	■	■	■	Salt
■	■	■	■	■	■	■	Shale - black
■	■	■	■	■	■	■	Shale - dark gray
■	■	■	■	■	■	■	Shale - medium gray
■	■	■	■	■	■	■	Shale - light gray
■	■	■	■	■	■	■	Shale - green
■	■	■	■	■	■	■	Shale - red
■	■	■	■	■	■	■	Siderite
■	■	■	■	■	■	■	Sandstone
■	■	■	■	■	■	■	Siltstone
■	■	■	■	■	■	■	Till - glacial
■	■	■	■	■	■	■	Volcanic (Tuff)
■	■	■	■	■	■	■	Welded Volcanic (Tuff)

Accessories

■ Anhydritic	EG	Gibbsitic
■ Argillaceous	II	Illitic
■ Baritic	EK	Kaolinitic
■ Bentonitic	LF	Lithic Fragment
■ Bituminous	TT	Marly - calcareous
■ Calcareous	MM	Marly - dolomitic
■ Carbonaceous	GM	Micromicaceous
■ Cherty - dark	M	Mixed layer clayey
■ Cherty - fossiliferous	EM	Montmorillonitic
■ Cherty - light	P	Phosphate pellets
■ Cherty - tripolitic	P	Pyritic
■ Cherty - varicolored	SG	Salt casts
■ Chloritic	S	Sandy
■ Clayey	AS	Sideritic
■ Dolomitic	AS	Siliceous
■ Ferruginous staining	SS	Silty
■ Fractures	SL	Styloitic
■ Glauconitic	TS	Tuffaceous
■ Gypsiferous	Z	Zeolitic

Fossils (Rock Builders)

■ Aggregate grains	-	Euryamphipora
■ Algae - laminations	FG	Foraminifera
■ Algae - non descript	F	Fossil
■ Algae - ootoid	F	Fragmental
■ Algae - skeletal	AG	Gastropod
■ Amphipora	AG	Griphite
■ Belemnite	BT	Hydrozoa
■ Bioclastic	IC	Intraclast
■ Brachiopod	BR	Mollusc
■ Bryozoa	OB	Oncolite
■ Calciphæra	OC	Oolite
■ Cephalopod	OC	Ostracod
■ Chaetetes	OC	Pelecypod
■ Coated grain	OG	Pellet
■ Conodont	CO	Pisolate
■ Coral	CR	Plant Remains
■ Coral - branching	CB	Scaphopod
■ Coral - head	CH	Spicule
■ Coral - colonial	CC	Sponge
■ Coral - solitary	CS	Stromatoporid
■ Crinoid	CR	Stromatoporid - bulbous
■ Diatom	DI	Stromatoporid - massive
■ Echinoid	EC	Stromatoporid - tabular
■ Echinoid - spine	ES	Tentaculites
■ Fish Remains	FR	Trilobite

Matrix

■ Argillaceous	MG	Marl - dolomitic
■ Bentonitic	MB	Micrite
■ Bituminous	BB	Mixed Clay
■ Clay	MC	Montmorillonitic
■ Chlorite	CH	Sand
■ Gibbsite	GI	Silt
■ Illite	IL	Sparry Calcite
■ Kaolinite	KA	Zeolite
■ Marl - calcareous	MC	

Textures

■ Chalky	e	Earthy
■ Cryptocrystalline	L	Lithographic

Matrix

■ Argillaceous	MG	Marl - dolomitic
■ Bentonitic	MB	Micrite
■ Bituminous	BB	Mixed Clay
■ Clay	MC	Montmorillonitic
■ Chlorite	CH	Sand
■ Gibbsite	GI	Silt
■ Illite	IL	Sparry Calcite
■ Kaolinite	KA	Zeolite
■ Marl - calcareous	MC	

Diagenesis Track

■ Calcification - calcified	-	

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