STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

Alaska Geologic Materials Center *Data Report No. 386*

No. 386

Talisman Energy Inc. 2011, Porosity, permeability, and grain density core analysis results from the FEX Limited Partnership Aklaq #6 well and white light and ultra-violet photography of the FEX Limited Partnership Aklaq #2, Aklaq #6, and Aklaqyaak #1 wells

Received April, 2011

CORE ANALYSIS REPORT
FOR

TALISMAN ENERGY INC.

TALISMAN F.E.X. AKLAQ #6

AKLAQ #6 , ALASKA

Core Lab™
RESERVOIR OPTIMIZATION

CORE LABORATORIES

CORE ANALYSIS REPORT
FOR

TALISMAN ENERGY INC.

TALISMAN F.E.X. AKLAQ #6

AKLAQ #6 , ALASKA

Petroleum Services Division
Core Laboratories Canada, Ltd.
2810 - 12 Street N.E.
Calgary, Alberta, Canada T2E 7P7
Tel: (403) 250-4000
Fax: (403) 250-5120
www.corelab.com

Core Lab
RESERVOIR OPTIMIZATION

June 11, 2007

Talisman Energy Inc.
3400, 888 – 3rd Street S.W.
Calgary, Alberta T2P 5C5

Attention: Mr. Jason Lavigne

Subject: TALISMAN F. E. X. AKLAQ #6
Our File Number: 52131-07-0150

Diamond coring equipment and water base mud were used to core the subject well. The core was boxed at the wellsite and transported to our Calgary laboratory.

Prior to analysis, spectral gamma ray activity was measured.

1. Conventional, Plug Type Analysis (Humidity Dried)

   Thirty-six samples (38.1 mm diameter) were drilled from the bulk core using water. The samples were dried in a humidity oven at 60° Celsius and 50% relative humidity. Analysis includes porosity by Boyle's Law technique using helium as the gaseous medium and horizontal permeability to air.

The results of these analyses are reported in both tabular and graphical form.

Samples outside the 95% confidence interval (three standard deviations) on the Permeability X Porosity crossplot have been identified and have been checked and re-analyzed to ensure data integrity.

As a guide to evaluation and correlation with other data, statistics with tabulated cut-off ranges and plots are also presented herein.

The 1/3 slabbed portion of the core material was photographed and six sets of white light and ultraviolet light, 216 mm X 280 mm photographs and six compact disks will be forwarded to your office under a separate cover.

Thank you for the opportunity to be of service.

Yours truly,

CORE LABORATORIES CANADA, LTD.

David J. Brooks
Supervisor, Routine Rock Properties

DJB/wz
enclosures

CORE LABORATORIES

Company	: TALISMAN ENERGY INC.	Field	: AKLAQ #6	File No.	: 52131-07-0150
Well	: TALISMAN F.E.X. AKLAQ #6	Formation	:	Date	: 2007-04-18
Location	:	Coring Equip	: DIAMOND	Analysts	: DJB
Province	: ALASKA	Coring Fluid	: WATER BASE MUD	Core Dia	: 4 inch

CORE ANALYSIS RESULTS

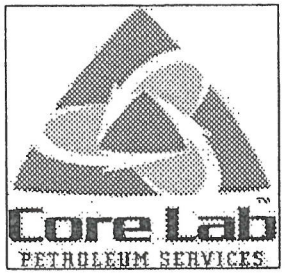
SAMPLE NUMBER	TOP DEPTH ft	BOTTOM DEPTH ft	SPOT DEPTH ft	INTVL REP ft	HUMIDITY DRIED PERM mD	CAPACITY (MAXIMUM) Kair md-ft	HUMIDITY DRIED POROSITY %	CAPACITY (HELIUM) ø-ft	HUMIDITY DRIED BULK DENSITY	HUMIDITY DRIED GRAIN DENSITY (gm/cc)	DESCRIPTION
CORE NO.1 7125.0 - 7161.4 ft (CORE RECEIVED 36.4 ft) (12 BOXES)											
SPH 1A	7125.0	7125.5	7125.3	0.5	0.06	0.03	16.8	8.4	2.27	2.73	ss vf f dol
SPH 1B	7125.5	7126.0	7125.7	0.5	0.07	0.04	17.7	8.9	2.23	2.71	ss vf f dol
SPH 1	7126.0	7127.1	7126.4	1.1	0.13	0.14	19.0	20.9	2.21	2.73	ss vf f dol lam
SPH 2	7127.1	7128.0	7127.3	0.9	0.17	0.15	19.4	17.5	2.19	2.72	ss vf f dol lam
SPH 3	7128.0	7129.0	7128.2	1.0	0.17	0.17	19.3	19.3	2.2	2.72	ss vf f dol lam
SPH 4	7129.0	7130.1	7129.1	1.1	0.12	0.13	18.2	20.0	2.33	2.85	ss vf f dol sid lam
SPH 5	7130.1	7130.6	7130.2	0.5	0.04	0.02	14.0	7.0	2.38	2.77	ss vf f dol sid lam
SPH 6	7130.6	7131.0	7130.8	0.4	<.01		11.5	4.6	2.47	2.79	ss vf f dol sid lam
SPH 7	7131.0	7132.7	7132.1	1.7	0.02	0.03	10.0	17.0	2.53	2.81	ss vf f dol glauc lam
SPH 8	7132.7	7134.1	7133.0	1.4	<.01		4.4	6.2	2.67	2.79	ss vf f dol glauc sid lam
SPH 9	7134.1	7134.7	7134.0	0.6	<.01		8.7	5.2	2.57	2.81	ss vf f dol glauc sid lam
SPH 10	7134.7	7135.8	7135.0	1.1	<.01		5.7	6.3	2.68	2.84	ss vf f dol glauc sid lam
SPH 11	7135.8	7136.4	7135.9	0.6	<.01		7.9	4.7	2.84	3.08	ss vf f dol glauc sid lam
SPH 12	7136.4	7137.1	7136.9	0.7	<.01		6.5	4.5	2.62	2.80	ss vf f dol glauc sid lam
SPH 13	7137.1	7138.9	7138.0	1.8	<.01		10.9	19.6	2.7	3.03	ss vf f dol glauc sid lam
SPH 14	7138.9	7140.1	7138.9	1.2	<.01		6.2	7.4	2.62	2.79	ss vf f dol glauc sid lam
SPH 15	7140.1	7140.7	7140.2	0.6	0.01	0.01	8.4	5.0	2.53	2.76	ss vf f dol glauc sid lam
SPH 16	7140.7	7141.9	7141.0	1.2	<.01		11.2	13.4	2.57	2.89	ss vf f dol glauc sid lam
SPH 17	7141.9	7142.1	7141.8	0.2	<.01		10.0	2.0	2.48	2.76	ss vf f dol glauc sid lam

CORE LABORATORIES

Company	: TALISMAN ENERGY INC.	Field	: AKLAQ #6	File No.	: 52131-07-0150
Well	: TALISMAN F.E.X. AKLAQ #6	Formation	:	Date	: 2007-04-18
Location	:	Coring Equip	: DIAMOND	Analysts	: DJB
Province	: ALASKA	Coring Fluid	: WATER BASE MUD	Core Dia	: 4 inch

CORE ANALYSIS RESULTS

SAMPLE NUMBER	TOP DEPTH ft	BOTTOM DEPTH ft	SPOT DEPTH ft	INTVL REP ft	HUMIDITY DRIED PERM mD	CAPACITY (MAXIMUM) Kair md-ft	HUMIDITY DRIED POROSITY %	CAPACITY (HELIUM) ø-ft	HUMIDITY DRIED BULK DENSITY	HUMIDITY DRIED GRAIN DENSITY (gm/cc)	DESCRIPTION
P 2	7142.1	7143.1		1.0							PRESERVE 2
SPH 18	7143.1	7143.7	7143.2	0.6	<.01		10.2	6.1	2.45	2.73	ss vf f dol glauc sid lam
SPH 19	7143.7	7144.9	7144.0	1.2	<.01		10.4	12.5	2.45	2.74	ss vf f dol glauc sid lam
SPH 20	7144.9	7145.9	7145.2	1.0	<.01		9.5	9.5	2.52	2.78	ss vf f dol glauc sid lam
SPH 21	7145.9	7146.6	7146.0	0.7	<.01		9.1	6.4	2.58	2.84	ss vf f dol glauc sid lam
SPH 22	7146.6	7148.1	7146.9	1.5	<.01		2.9	4.4	3.24	3.34	ss vf f dol glauc sid lam
SPH 23	7148.1	7149.0	7148.3	0.9	<.01		3.7	3.3	2.77	2.88	ss vf f shy glauc sid lan
SPH 24	7149.0	7149.8	7199.0	0.8	<.01		5.0	4.0	2.83	2.98	ss vf f shy dol glauc sid
SPH 25	7149.8	7150.8	7150.0	1.0	<.01		5.5	5.5	2.71	2.87	ss vf f dol glauc sid lam
SPH 26	7150.8	7151.5	7151.2	0.7	<.01		7.9	5.5	2.81	3.05	ss vf f dol sid lam
SPH 27	7151.5	7152.1	7151.9	0.6	<.01		9.2	5.5	3.05	3.36	ss vf f sid lam
P 3	7152.1	7153.1		1.0							PRESERVE 3
SPH 28	7153.1	7153.8	7153.2	0.7	<.01		9.9	6.9	2.97	3.30	ss vf f dol sid lam
SPH 29	7153.8	7154.5	7154.2	0.7	<.01		6.7	4.7	2.75	2.95	ss vf f shy dol sid lam
SPH 30	7154.5	7155.4	7155.0	0.9	<.01		4.3	3.9	2.99	3.13	ss vf f shy dol sid lam
SPH 31	7155.4	7157.1	7156.0	1.7	<.01		5.8	9.9	2.92	3.10	ss vf f shy dol sid lam
SPH 32	7157.1	7157.9	7157.1	0.8	0.01	0.01	4.2	3.4	3.31	3.46	ss vf f shy dol sid lam
SPH 33	7157.9	7158.5	7158.0	0.6	0.02	0.01	5.7	3.4	2.59	2.75	ss vf f shy dol glauc sid
SPH 34	7158.5	7159.2	7158.9	0.7	<.01		2.7	1.9	2.57	2.64	ss vf f v shy dol glauc l
SPH 35	7159.2	7160.1	7159.9	0.9	<.01		1.2	1.1	2.63	2.66	ss vf f v shy dol glauc l
SPH 36	7160.1	7161.4	7161.0	1.3	<.01		3.7	4.8	2.58	2.68	ss vf f shy dol glauc lan



CODE KEY - DESCRIPTIONS

ACA = Removed for advanced core analysis
anhy = Anhydrite
arg = Argillaceous
AST = Appears similar to
bit = Bitumen
bk = Break
c = Coarse
calc = Calcite (calcareous)
carb = Carbonaceous
cbl = Cobble
cgl = Conglomerate
cht = Chert
coal = Coal/coal inclusion
coq = Coquina
dol = Dolomite
f = Fine
fc = Filter cake on suface of core sample
FD = Full diameter analysis including three directional permeabilities, porosity and densities
foss = Fossil (fossiliferous)
frac = Fracture (undifferentiated)
fri = Friable
glauc = Glauconite (glauconitic)
grnl = Granule
gyp = Gypsum
hal = Halite (salt)
hfrac = Horizontal fracture
i = Intercrystalline
IFD = Inner Full Diameter (Full diameter sample is drilled from the bulk portion of the core in the vertical direction for permeability and porosity measurements)
incl = Inclusions
lam = Laminae (laminated)
ls = Limestone
lv = Large vug
m = Medium
mi = Mud invaded
mv = Medium vug
NA = Not analyzed by request
NR = Not received
OB = Overburden sample (permeability and porosity measured at net overburden stress)
ool = Oolitic
pbl = Pebble
PFD = Preliminary Full Diameter sample
ppv = Pinpoint vug
PR = Preserved for future studies
PSA = Particle size analysis
PSP = Preliminary Small Plug sample
pyr = Pyrite (pyritic)
pyrbit = Pyrobitumen
ru = Rubble
SA = Sieve analysis
sdy = Sandy
SEM = Scanning electron microscope analysis
sh = Shale
shy = Moderately shaly (20% - 40%)
sid = Siderite
sltst = Siltstone
slty = Silty
SP = Small plug (sample drilled from core in maximum horizontal direction and parallel to bedding plane where possible) permeability porosity, and grain density are measured
SPA = (Prefix A) Horizontal matrix permeability measured by pressure decay profile permeametry through a probe tip due to sample quality
SPH = Humidity analysis of small plug sample at 60 degrees Celsius and 50 % relative humidty
SPP = Small plug from preserved section of the core
SPT = Small Plug used for tracer analysis
ss = Sandstone
ssdy = Slightly sandy (<20%)
sshy = Slightly shaly (<20%)
sty = Stylolite (ic)
sulf = Sulphur
sv = Small vug
TEC = Thermal Extraction Chromatography to determine oil richness
TS = Thin section
uncons = Unconsolidated
vc = Very coarse
vf = Very fine
vfrac = Vertical fracture
VIS = Viscosity of oil measured
VOB = Vertical overburden sample (vertical permeability measured at net overburden stress)
vshy = Very shaly (>40%)
VSP = Vertical small plug drilled from whole core to measure vertical permeability (and occasionally porosity)
vug = Vuggy (vuggular)
ws = Water sand
XRD = X-ray diffraction
* = Data unavailable due to poor sample quality
10240 = Permeability >10 Darcies, (maximum routine permeability measurement)

CORE LABORATORIES

Company :TALISMAN ENERGY INC.
Well :TALISMAN F.E.X. AKLAQ #6

Field :AKLAQ #6
Formation :

File No :52131-07-0150
Date :2007-04-18

TABLE 1

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA

ZONE:

Identification----------
Top Depth---------- 7125.0 ft
Bottom Depth---------- 7161.4 ft
Number of Samples---------- 40

DATA TYPE:

Porosity---------- (HELIUM)
Permeability---------- (MAXIMUM) Kair

CUTOFFS:

Porosity(Minimum)---------- 0.0 %
Porosity(Maximum)---------- 100.0 %
Permeability(Minimum)------- 0.0000 md
Permeability(Maximum)------- 100000 md
Water Saturation(Maximum) -
Oil Saturation(Minimum)------ -
Grain Density(Minimum)------ 2.0 gm/cc
Grain Density(Maximum)----- 3.0 gm/cc
Lithology Excludes---------- NONE

CHARACTERISTICS REMAINING AFTER CUTOFFS

ZONE:

Number of Samples-------- 29
Thickness Represented--- 25.1 ft

HUMIDITY DRIED POROSITY:

Storage Capacity---------- 236.8 ø -ft
Arithmetic Average--------- 9.4%
Minimum---------- 1.2%
Maximum---------- 19.4%
Median---------- 9.1%
Standard Deviation--------- ±5.4%

HUMIDITY DRIED GRAIN DENSITY:

Arithmetic Average--------- 2.79 gm/cc
Minimum---------- 2.64 gm/cc
Maximum---------- 2.98 gm/cc
Median---------- 2.78 gm/cc
Standard Deviation--------- ±0.08 gm/cc

HUMIDITY DRIED PERMEABILITY:

Flow Capacity----------	0.7	md-ft
Arithmetic Average------	0.09	md
Geometric Average------	0.06	md
Harmonic Average--------	0.04	md
Minimum----------	0.01	md
Maximum----------	0.17	md
Median----------	0.06	md
Standard Dev. (Geom)--	$K*10^{\pm 0.435}$	md

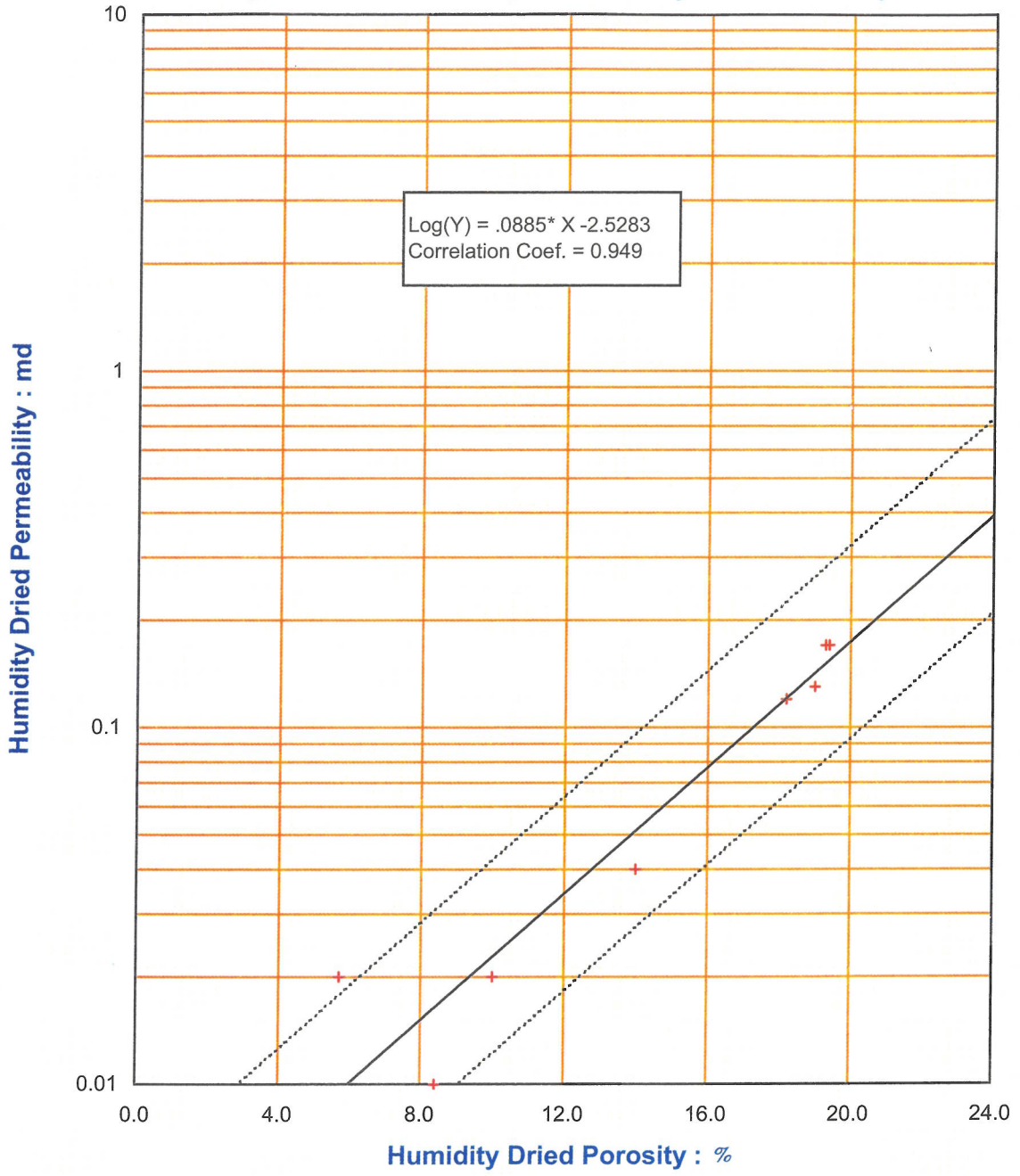
HETEROGENITY(Permeability):

Dykstra-Parsons Var.-- 0.989
Lorenz Coefficient-------- 0.112

AVERAGE SATURATION(Pore Volume):

Oil---------- -
Water---------- -

Humidity Dried Permeability vs Humidity Dried Porosity



TALISMAN ENERGY INC.

TALISMAN F.E.X. AKLAQ #6

AKLAQ #6

(7125.0 - 7161.4 ft)

Core Laboratories Canada Ltd.

- LEGEND -

CORE SPECTRAL GAMMA

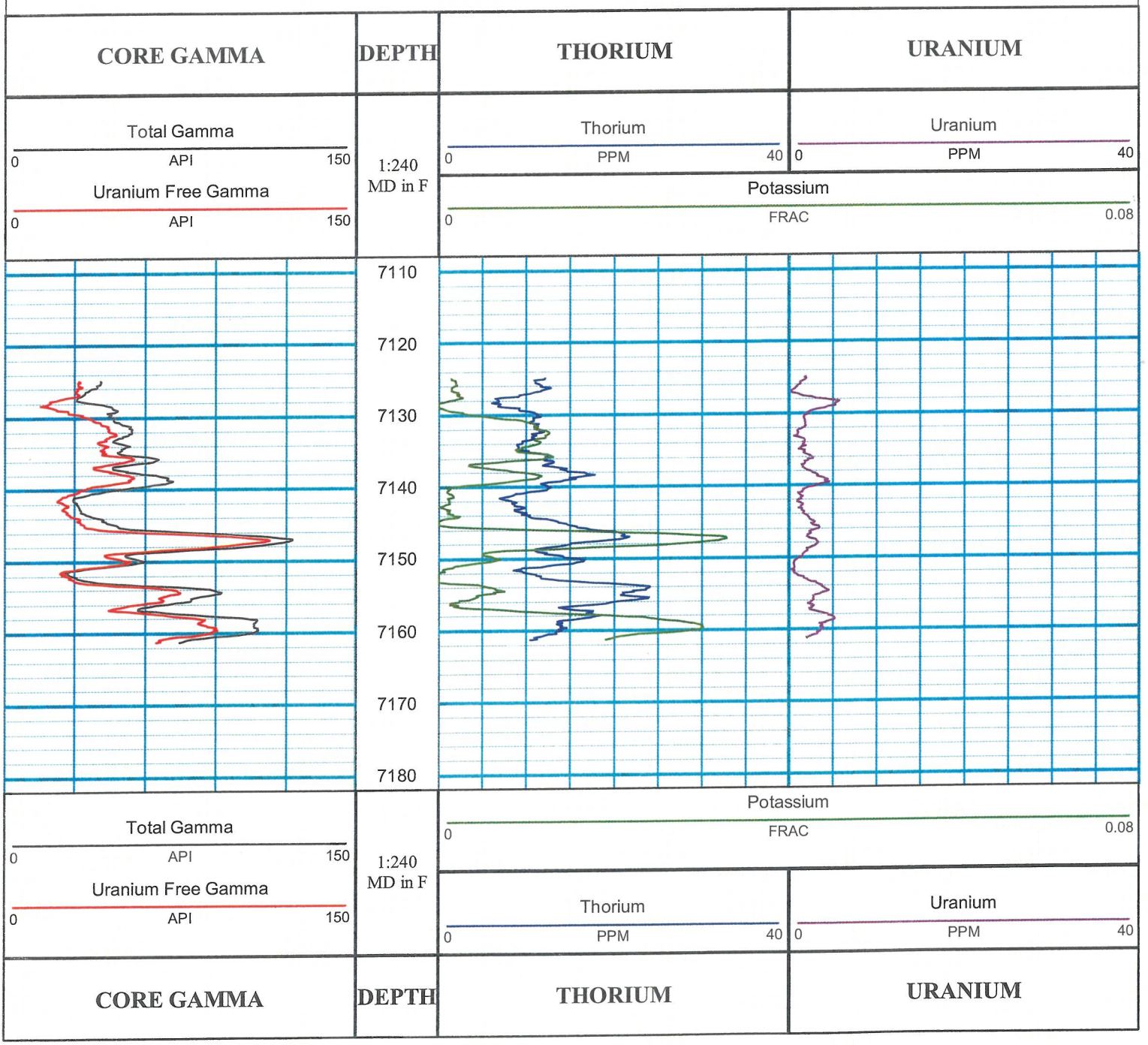
TALISMAN ENERGY INC.

TALISMAN F. E. X. AKLAQ #6

(7125.0 - 7161.4 ft)

5 inches - 100 feet

Core Laboratories Canada Ltd.



CORRELATION COREGRAPH

TALISMAN ENERGY INC.

TALISMAN F. E. X. AKLAQ #6

(7125.0 - 7161.4 ft)

5 inches - 100 feet

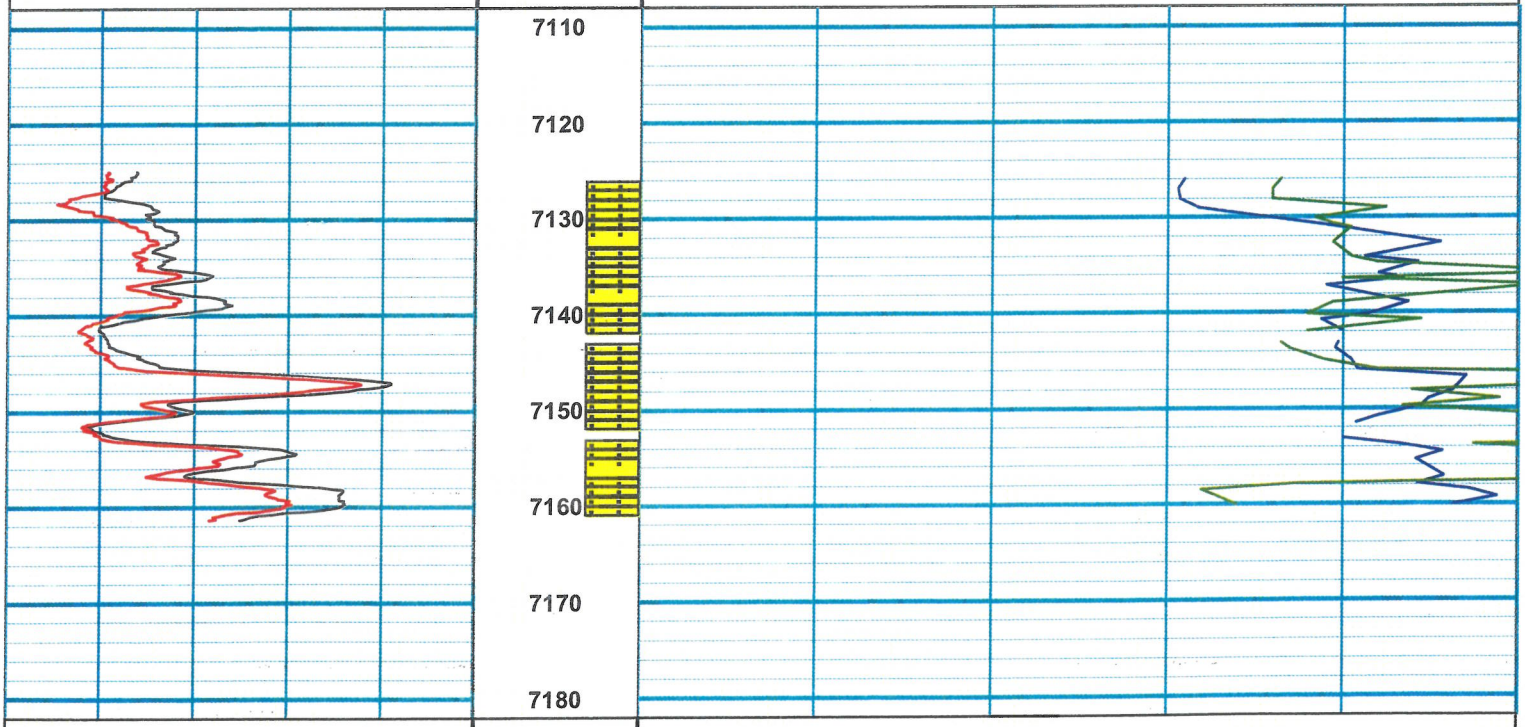
Core Laboratories Canada Ltd.

Lithology

Limestone | Dolomite | Sandstone | Shale | Anhydrite

Conglomerate | Glauconite | Shaley Sandstone | Siltstone | Coal

GAMMA RAY (API)	DEPTH	HUMIDITY DRIED POROSITY /HUMIDITY DRIED GRAIN DENSITY
Total Gamma 0 API 150 Uranium Free Gamma 0 API 150	1:240 MD in F	Helium Porosity 50.0 % 0.0 Core Grain Density 2 GM/CC 3



Total Gamma 0 API 150 Uranium Free Gamma 0 API 150	1:240 MD in F	Helium Porosity 50.0 % 0.0 Core Grain Density 2 GM/CC 3

GAMMA RAY (API)	DEPTH	HUMIDITY DRIED POROSITY /HUMIDITY DRIED GRAIN DENSITY

CORRELATION COREGRAPH

TALISMAN ENERGY INC.

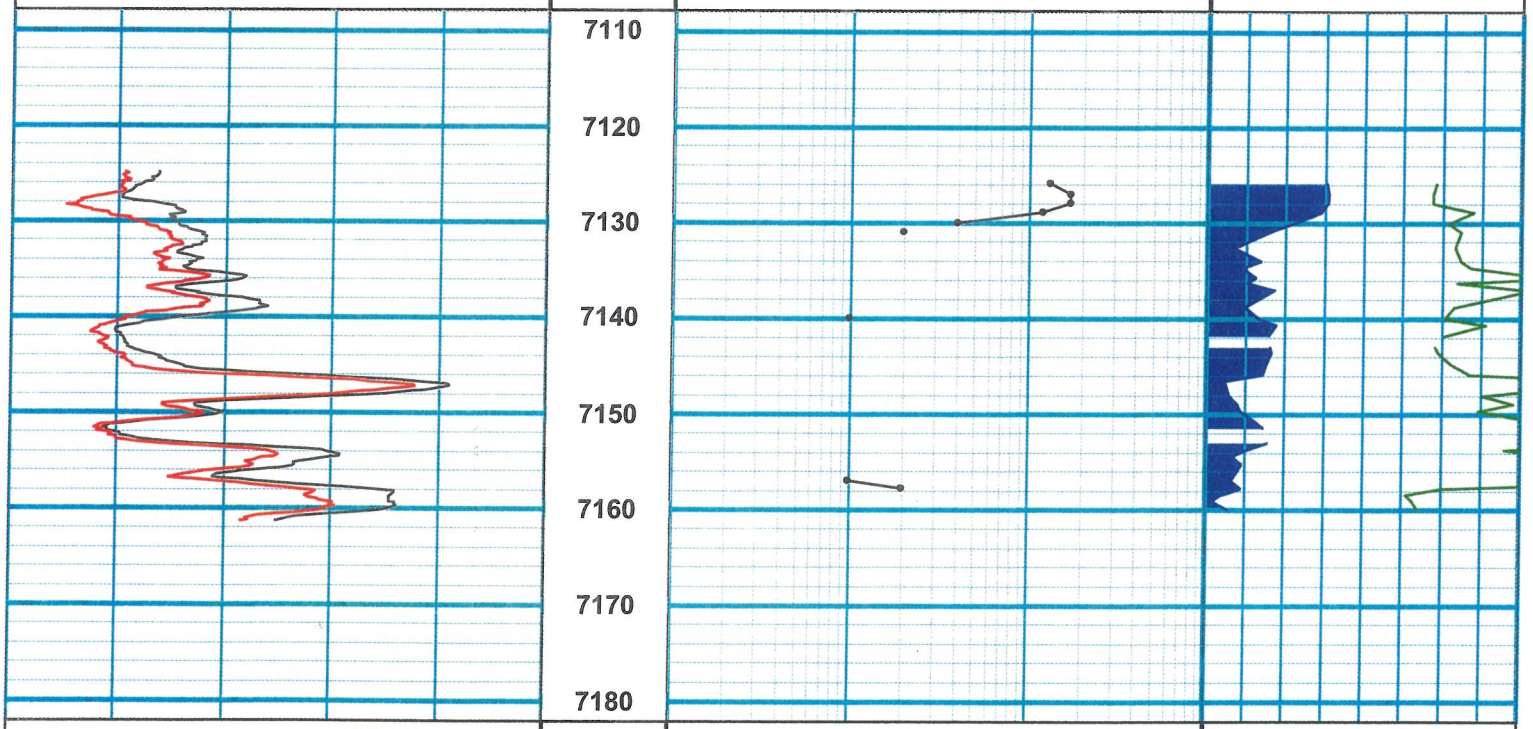
TALISMAN F. E. X. AKLAQ #6

(7125.0 - 7161.4 ft)

5 inches - 100 feet

Core Laboratories Canada Ltd.

GAMMA RAY (API)	DEPTH	HUMIDITY DRIED PERMEABILITY	HUMIDITY DRIED POROSITY
Total Gamma 0 API 150 Uranium Free Gamma 0 API 150	1:240 MD in F	Horizontal Kmax 0.001 MD 1	Helium Porosity 0.0 % 50.0 Core Grain Density 2 GM/CC 3



GAMMA RAY (API)	DEPTH	HUMIDITY DRIED PERMEABILITY	HUMIDITY DRIED POROSITY
Total Gamma 0 API 150 Uranium Free Gamma 0 API 150	1:240 MD in F	Horizontal Kmax 0.001 MD 1	Helium Porosity 0.0 % 50.0 Core Grain Density 2 GM/CC 3

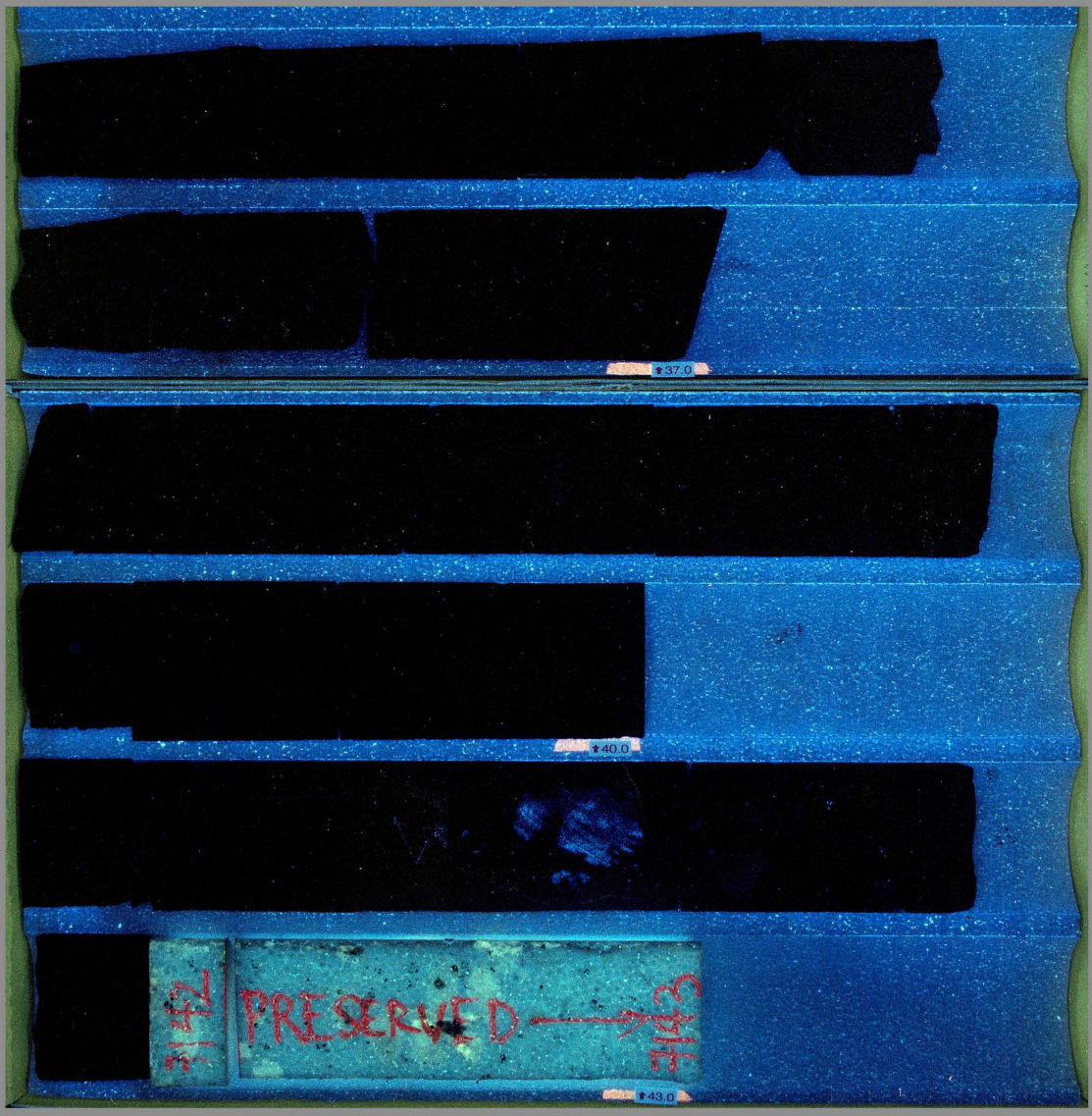
TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7125.0 ft

52139-07-4397
07-05-12

Bottom 7134.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7134.1 ft

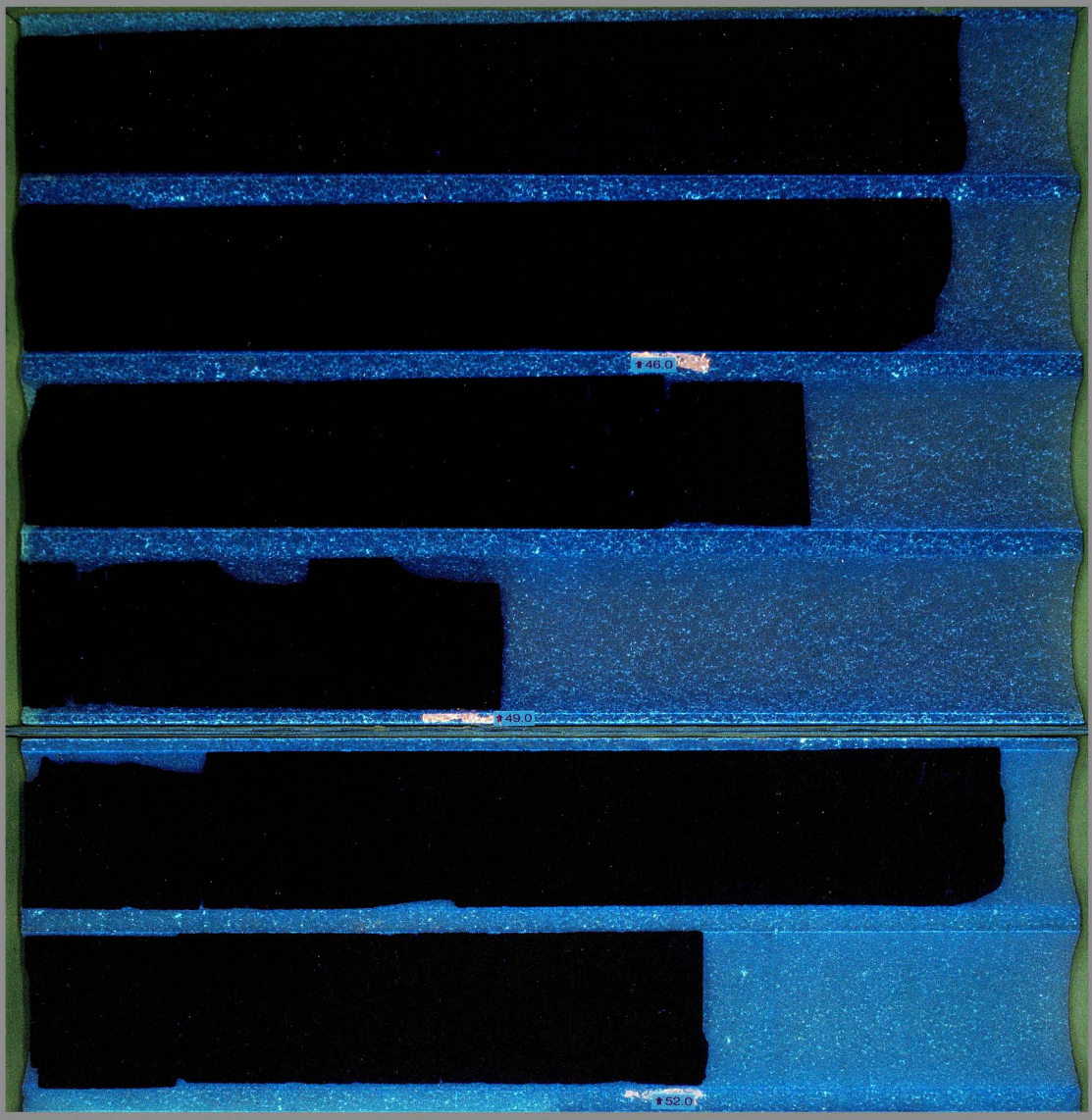
52139-07-4397
07-05-12



Bottom 7143.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7143.1 ft

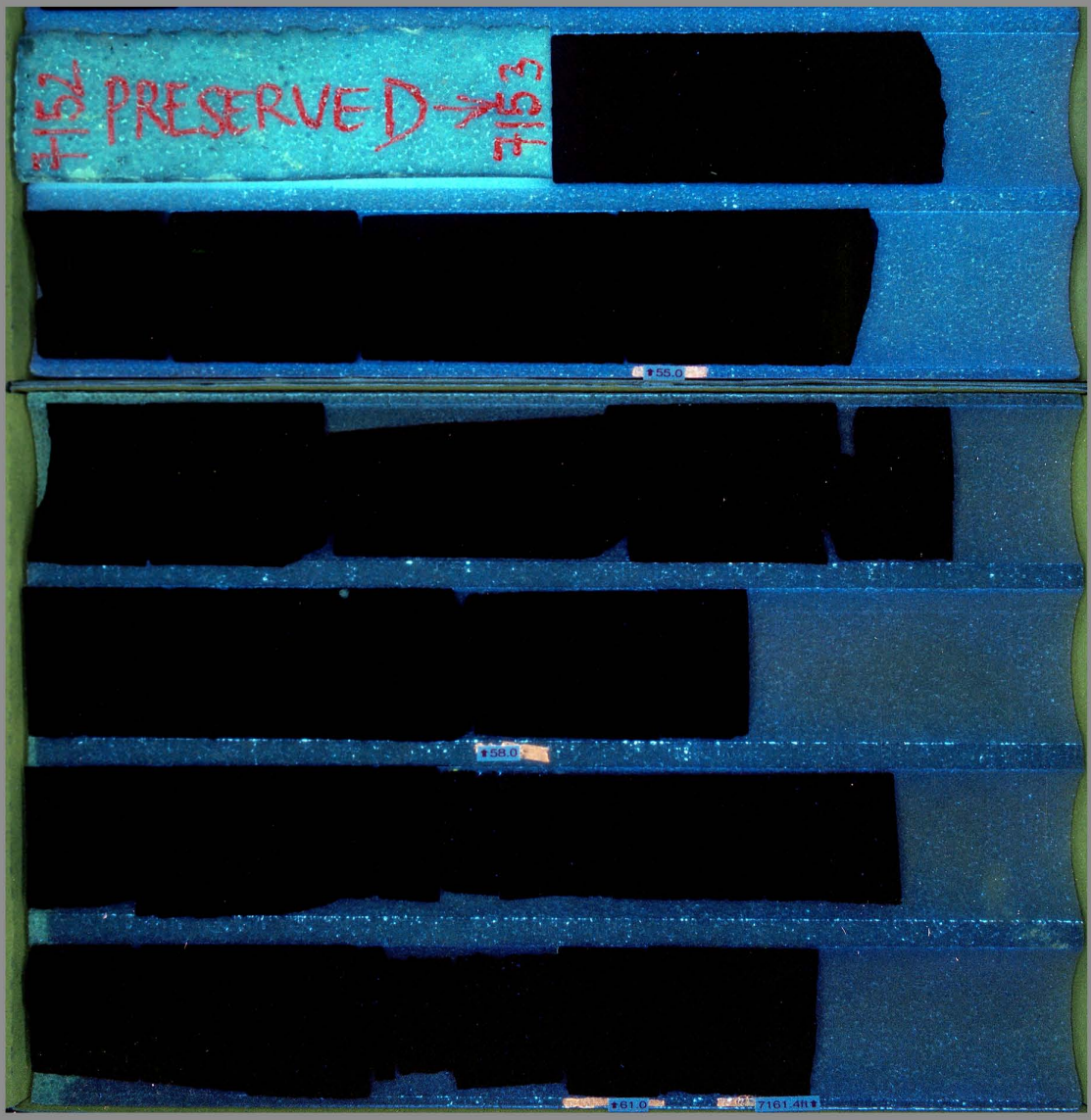
52139-07-4397
07-05-12



Bottom 7152.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7152.1 ft

52139-07-4397
07-05-12



Bottom 7161.4 ft

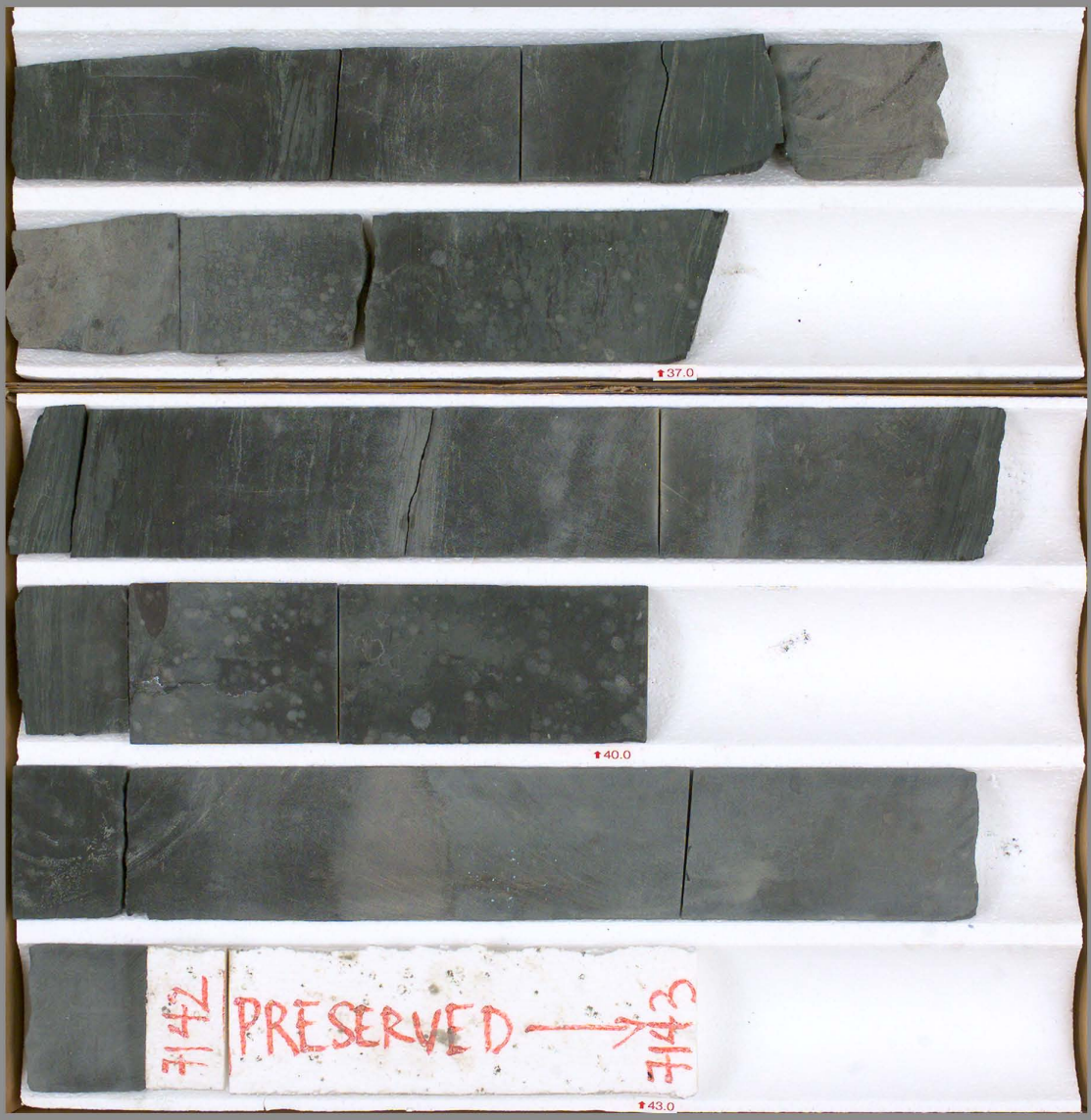
TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7125.0 ft

52139-07-4397
07-05-12

Bottom 7134.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7134.1 ft

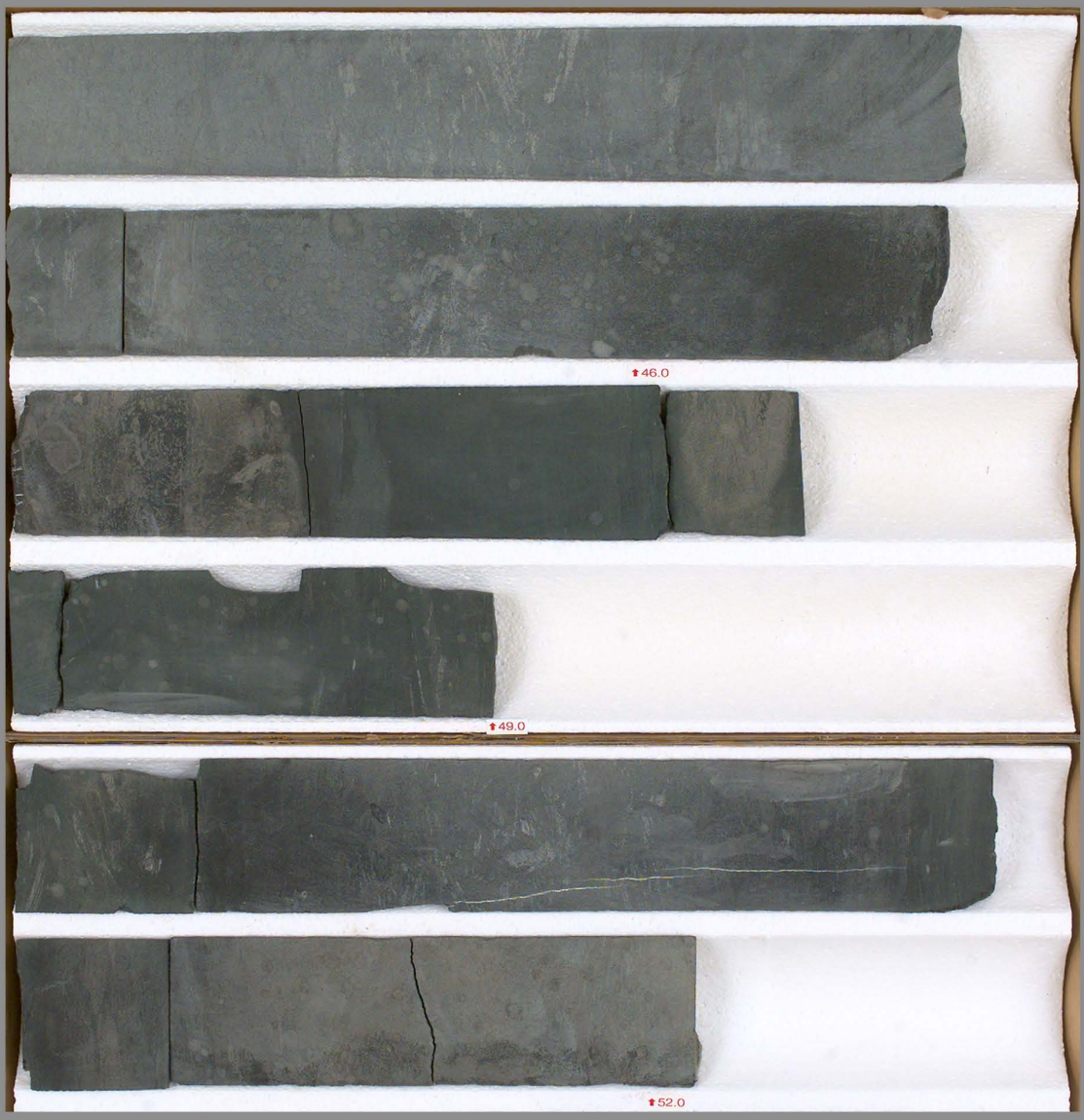
52139-07-4397
07-05-12



Bottom 7143.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7143.1 ft

52139-07-4397
07-05-12



Bottom 7152.1 ft

TALISMAN ENERGY INC.
TALISMAN F.E.X. AKLAQ #6
Core #1
Top 7152.1 ft

52139-07-4397
07-05-12

Bottom 7161.4 ft

Entered 5/5/11

GEOLOGICAL MATERIALS CENTER

NEW INVENTORY

STATE COLLECTION

INVENTORIED BY: DCH 4/13/11

GMC LOCATION	Well Name	Well No	API	Operator 1	TYPE	TOP	BOTTOM	COMMENTS
	AKLAQ	2	50-279-20014-0000	FEX L.P.	CORE	CORE #1 7629	7677	4" - 1/3 SLABS
107A					1/6	7629	7638	
"					2/6	7638	7647	
107B					3/6	7647	7656	
					4/6	7656	7665	
					5/6	7665	7674	
					6/6	7674	7677	
					CORE	—	—	4" - 2/3 SLABS
					1/14	7629	7632	
					2/14	7632	7635	
					3/14	7635	7639	
					4/14	7639	7643	
					5/14	7643	7646	
					6/14	7646	7649	
107C					7/14	7649	7653	
"					8/14	7653	7656	

GEOLOGICAL MATERIALS CENTER

NEW INVENTORY

STATE COLLECTION

INVENTORIED BY: DCH 4/13/11

GMC LOCATION	Well Name	Well No	API	Operator 1	TYPE	TOP	BOTTOM	COMMENTS
	AKLAQ	2	50-279-20014-0000	FEX L.P.	CORE	—	—	4" - 2/3 SLABS
107C					9/14	7656	7660	
					10/14	7660	7663	
					11/14	7663	7666	
					12/14	7666	7670	
					13/14	7670	7674	
					14/14	7674	7677	
	AKLAQ	6.	50-279-20019-0000	FEX L.P.	CORE	—	—	4" - 1/3 SLABS
					1/6	7125	7131	
					2/6	7131	7137	
					3/6	7137	7143	
					4/6	7143	7149	
					5/6	7149	7155	
					6/6	7155	7161	

Page 2

GEOLOGICAL MATERIALS CENTER

NEW INVENTORY

STATE COLLECTION

INVENTORIED BY: DCH 4/13/11

GMC LOCATION	Well Name	Well No	API	Operator 1	TYPE	TOP	BOTTOM	COMMENTS
	AKLAQ	6	50-279-20019-0000	FEX L.P.	CORE	CORE #1 7125	7161	4" - 2/3 SLABS
104A					1/12	7125	7128	
					2/12	7128	7131	
					3/12	7131	7134	
					4/12	7134	7137	
					5/12	7137	7140	
					6/12	7140	7143	
					7/12	7143	7146	
					8/12	7146	7149	
104B					9/12	7149	7152	
					10/12	7152	7155	
					11/12	7155	7159	
					12/12	7159	7161	
					12/12	7126	7161	CORE 22 PLUG CHIPS

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GEOLOGICAL MATERIALS CENTER

NEW INVENTORY

STATE COLLECTION

INVENTORIED BY: DCH 4/13/11

GMC LOCATION	Well Name	Well No	API	Operator 1	TYPE	TOP	BOTTOM	COMMENTS
	AKLAQYAAK	1	50-279-20018-0000	FEX L.P.	CORE	CORE #1 9905	9923	4" - 1/3 SLABS
107A					1/3	9905	9911	
					2/3	9911	9917	
					3/3	9917	9923	
					CORE	—	—	4" - 2/3 SLABS
					1/7	9905	9908	
					2/7	9908	9911	
					3/7	9911	9915	
					4/7	9915	9918	
					5/7	9918	9920	
					6/7	9920	9922	
					7/7	9922	9923	

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