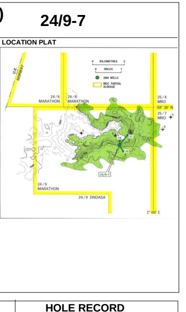
MARATHON PETROLEUM COMPANY (NORWAY)

COMPLETION LOG

24/9-7

LOCATION	WELL CLASSIFICATION	RIG
59º 28' 42.701"N 001º 57' 44.422" E UTM: ED50, Zone 31, CM 3ºE 441,211.94m E 6,593,950.00m N **TD** 59º 28' 41.638" N 001º 57' 46.165" E 441,238.82m E 6,593,916.70m N	**Exploration/Appraisal** TOTAL DEPTH: 2280m (DRILLER), 2280m (LOGGER) TVD: 2249.9m TVDSS (DRILLER), 2249.9m TVDSS (LOGGER) SPUD DATE: 14:30, 03 March 2004 T.D. DATE: 08:45, 17 March 2004	**Deepsea Delta** BOTTOM HOLE FORMATION: Upper Paleocene - Rogaland Group, Heimdal Formation COMPLETION DATE: 06:00, 25 March 2004 COMPLETION STATUS: P & A, Oil and Gas

LOCATION PLAT



WATER DEPTH: 124.2m

COUNTRY: Norway

COMMENTS: Well 24/9-7 was side tracked 3 times for exploration purposes with the primary wellbore plugged back to 1500m MD for 24/9-7A. The sidetrack well was plugged back to 1060m MD in the original wellbore and sidetracked as 24/9-7B. This side-track was also plugged back to 1000m MD in the original well and sidetracked as 24/9-7C. This well was P&S at TD.

DRILL FLOOR ELEVATION: 29m

REGION: North Sea - West of Heimdal

CASING RECORD:
30"/20" Conductor at 205m
13-3/8" casing at 947.5m, LOT 1.41sg

CONCESSION: PL150

FIELD: Hamsun

TESTING CONTRACTOR:

ENGINEERS: Graham Philp, Doug Pirie, Søren Hartmann, Garry Kjaerstad

MUD LOGGING: Baker Hughes Inteq

MUD ENGINEERING: MI SWACO

DRILLING CONTRACTOR: Odfjell Drilling

GEOLOGISTS: Sigvart Bjerkenes, Anders Knape, Mike Henderson

WIRELINE LOGGING: Baker Atlas

CEMENTING: Halliburton

AUTHOR: Knape/Bjerkenes/Henderson

APPROVAL: Phil Leighton

REVISED: Phil Leighton

OPENHOLE & EVALUATION

RUN	DATE	BIT SIZE	COMBINATION RUN	DEPTH INTERVAL	DRILLERS DEPTH	REMARKS	MAX T °F /TSCS (hrs)	Rm	Rmf	Rmc
1A	17/03/04	8½"	GR-HDIL-ZDL-CND-XMAC	2280m - 947.5m	2280m	GR & XMAC & CND to surface.	68ºC/13.5			
1A	18/03/04	8½"	RCI-GR	1967m- 1823.5m		Misrun				
1B	19/03/04	8½"	RCI-GR	2195m -1884m		Pressures & samples	71ºC/35.0			
1C	19/03/04	8½"	RCI-GR	1967m-1829.5m		Pressures & sample	70ºC/73.5			
1A	21/03/04	8½"	VSP-GR	2205m-405m		32 levels shot				
1A	22/03/04	8½"	CBIL-Earth Imager-ORIT-GR	2120m-1800m						
1D	22/03/04	8½"	RCI-GR	1966.5m & 1884m		Sampling	71ºC			
1A	6-9/03	17½"	GR/ARC/PWD	212m - 941m	953m	GR/ARC failure at 590m				
1B	10-12/03	8½"	GR/RAB6/ARC6	940m - 1829m	1830m	RAB to assist coring decision				
1C	16-17/03	8½"	GR/RAB6/ARC6	1810m - 2275m	2280m	To permit quicklook CPI				

HOLE RECORD

HOLE SIZE	DEPTH INTERVAL	MUD TYPE
36"	145.4m - 205m	Sea water
17½"	205m - 953m	Sea water
12¼"	953m - 956m	Versavert OBM
8½"	956m - 2280m	Versavert OBM

CORING RECORD

CORE NO	DEPTH INTERVAL	CUT	REC	REC%
1	1830m - 1857m	27m	26.76m	99.1
2	1857m - 1876.5m	19.5m	19.5m	100
3	1876.5m - 1906.9m	30.4m	30.4m	100
4	1906.9m - 1915.44m	9.1m	8.54m	93

GENERAL DRILLING DATA AND SHOWS

DRILL STEM TEST THROUGH PERFORATION / OPEN HOLE

DEVIATION DATA — Inclination, Azimuth, TVD

CASING OR LINER WITH SHOE SETTING DEPTH

LINER HANGER

TRACE OIL SHOW

POOR OIL SHOW

GOOD OIL SHOW

EXCELLENT OIL SHOW

POOR GAS SHOW

GOOD GAS SHOW

CORE INTERVALS CORRECTED TO WIRELINE LOGS WITH RECOVERY IN BLACK

SIDEWALL CORE RECOVERED

SIDEWALL CORE NO RECOVERY

MUD DATA

Oil Based Mud: Wt. Weight; Vis Viscosity; Fil Filtrate; O/W Oil/Water; ES Elec. Stab.

Water Based Mud: Wt. Weight; Vis Viscosity; Fil Filtrate; pH pH; Cl Chlorides

RCI PRETEST FAIL OR DRY

RCI PRETEST GOOD

RCI PRETEST SAMPLE

LITHOLOGIC SYMBOLS

SANDSTONE, LIMESTONE, GYPSUM, SILTSTONE, DOLOMITE, SALT, CLAYSTONE, MARL, COAL, SHALE, ANHYDRITE, VOLCANIC

SAND STRINGER, KAOLINITE/FELDSPAR, GYPSUM, DOLOMITE STRINGER, CALCAREOUS, TUFFACEOUS, MICACEOUS, GLAUCONITIC, MICROFOSSILS or FOSSILS, CHERT, PYRITIC, CARBONACEOUS, FERRUGINOUS, ARGILLACEOUS, DOLOMITIC

PERIOD	EPOCH / AGE	GROUP	FORMATION	ROP/TOTAL GAS	CORRELATION	LITHOLOGY	RESISTIVITY	NEUTRON/DENSITY	SONIC	LITHOLOGY DESCRIPTIONS
				ROP Avg 100 – m/hr – 0; Total HC Gas 0 – % – 10	Gamma Ray 0 – API – 150; Caliper 6 – Ins – 16; Bit Size 6 – Ins – 16	VISUAL POROSITY, F-G-E, DEPTH (m) MD/TVDSS, SHOWS T-F-G-E	M2R10" 0.2 – OHMM – 20; M2R60" 0.2 – OHMM – 20; M2R90" 0.2 – OHMM – 20	Thermal Neutron porosity 45 – PU – -15; Standard resolution density 1.95 – g/cc – 2.95	dT Compressional 140 – µs/ft – 40	

Drilled with returns to sea bed down to 953 m MD. Lithology interpretation based on MWD GR and drilling parameters down to 953m MD. All depths refers to RKB

Utsira: 460.0m MD
-431.0m TVDSS / TWT 498.5 msec

Base Utsira: 722.0m MD
-692.8m TVDSS / TWT 762.7 msec

Sandy Siltstone: dark grey to olive black, firm, friable, amorphous, aggregates with clear to translucent Quartz, very fine to fine grained, subrounded, subspherical, moderate to well sorted, silty and argillaceous matrix, micaceous and glauconitic, non calcareous, fair visible porosity. No shows.

Silty Claystone: yellow brown to dusky yellow brown, firm to moderately hard, amorphous to blocky, micromicaceous, rarely glauconitic, sandy in parts, micropyritic, moderately calcareous.

Grid Sand: 1149.0m MD
-1119.8m TVDSS / TWT 1157.6 msec

Sandstone: quartzose, light grey to off white, moderately hard to hard, clear Quartz, very fine to fine grained, subrounded, fair sort, locally glauconitic, calcareous cemented grading to Sandy Limestone in part, nil visible porosity. No shows.

Sandstone: quartzose, light grey to off white, friable, clear Quartz, predominantly fine grained, subangular to subrounded, moderately sorted, non- to slightly calcareous cemented in part, good visible porosity. No shows.

Base Grid Sand: 1268.0m MD
-1238.8m TVDSS / TWT 1268.3 msec

Claystone: generally olive black, minor dark grey, firm, subblocky to subplaty, silty in part, rare very fine sand, rarely glauconitic and disseminated micropyrite, carbonaceous in part, generally non- to slightly calcareous.

Belton Member Equivalent: 1305.2m MD
-1276.0m TVDSS / TWT 1302.8 msec

Sandstone: quartzose, olive grey, clear to translucent Quartz, commonly loose, friable, very fine to coarse predominantly fine to medium grained, subangular to subrounded, subspherical, moderately sorted, rare argillaceous/silty matrix, rarely glauconitic and carbonaceous, fair visible porosity. No shows.

Base Belton Member Equivalent: 1328.9m MD
-1299.5m TVDSS / TWT 1324.5 msec

Claystone: generally olive black, minor dark grey, firm, subblocky to subplaty, silty in part, rare very fine sand, rarely glauconitic and disseminated micropyrite, carbonaceous in part, generally non- to slightly calcareous.

Alternations of Limestone stringers/nodules within Claystone: mudstone, dusky yellowish brown, 30% irreducible residue, firm, cryptocrystalline, argillaceous.

Limestone: mudstone, olive grey to light grey, 30% irreducible residue, firm, cryptocrystalline, argillaceous, rare very fine Qaurtz sand grains, rare black inclusions, nil visible porosity. No shows.

Dolomite stringers/nodules: very pale orange to pale yellowish brown, >20% irreducible residue, moderately hard, cryptocrystalline, argillaceous, nil visible porosity. No shows.

Dolomite stringers/nodules: very pale orange to pale yellowish brown, >20% irreducible residue, moderately hard, cryptocrystalline, argillaceous, nil visible porosity. No shows.

Limestone stringers/nodules: mudstone, pale yellowish brown to light olive grey, >50% irreducible residue, moderately hard, cryptocrystalline, argillaceous, nil visible porosity. No shows.

Top Uppermost Injectite: 1823.0m MD
-1793.6m TVDSS / TWT 1773.1 msec

Sandstone: quartzose, medium grey to dark grey, greenish grey to greenish black, aggregates with clear to translucent Quartz, commonly loose to friable, very fine to medium grained, subangular to subrounded, subspherical, moderately sorted, abundant argillaceous matrix locally grading to sandy Claystone, locally pyritic, glauconitic, poor to fair visible porosity. Shows: none to very weak HC odour, locally light brown oil stain, dull yellow to bright bluish white direct fluoresence, slow to fast streaming to blooming blueish white cut, no visible cut colour, dull to bright blueish white residual ring, no visible residue.

For detailed treatment of the interval 1830m to 1916m MD, refer to core description on trailer.

Claystone: medium dark grey to medium bluish grey, locally dark greenish grey, firm, micromicaceous and micropyritic, locally carbonaceous, glauconitic in part, slightly to locally moderately calcareous.

Top "Upper Dyke Complex": 1877.5m MD
-1847.8m TVDSS / TWT 1820.6 msec

Sandstone: quartzose, medium grey to olive grey, commonly loose to very friable, clear to translucent Quartz, very fine to locally medium, predominately fine grained, subangular to subrounded, subspherical, well sorted, traces argillaceous matrix and locally mm thin argillaceous laminae, becoming rare argillaceous matrix (from 1883m), non calcareous, locally pyritic, micaceous & glauconitic, fair to good visible porosity. Shows: none to locally good HC odour, locally trace light brown Oil stain, patchy to locally uniform pale to locally bright yellowish white direct fluoresence, slow to instant streaming bluish white cut, no visible cut colour, bluish white residual ring, no visible residue.

Base "Upper Dyke Complex": 1911.0m MD
-1881.2m TVDSS / TWT 1848.9 msec

Claystone: predominantly medium dark grey, minor medium bluish grey, firm, subblocky, slightly silty, locally trace disseminated micropyrite, non calcareous.

Balder Claystone: 1946.0m MD
-1916.2m TVDSS / TWT 1879.5 msec

Claystone: olive grey to olive black, firm, subblocky, slightly silty, trace to locally abundant disseminated micropyrite, rare carbonaceous material, non calcareous.

Top "Lower Dyke Complex": 1962.5m MD
-1932.8m TVDSS / TWT 1894.1 msec

Sandstone: quartzose, loose clear Quartz, predominantly fine to medium grained becoming coarse to base of section, angular to subrounded, subspherical, well sorted, fair visible porosity becoming poor to base. Shows: bright bluish white direct fluoresence, slow to instant streaming bright bluish white cut, dull white residual fluoresence.

Base "Lower Dyke Complex": 1975m MD
-1944.9m TVDSS / TWT 1904.4 msec

Claystone: olive grey to olive black, firm, subblocky, slightly silty, trace to locally abundant disseminated micropyrite, rare carbonaceous material, non calcareous.

Sandstone: quartzose, loose Quartz grains, clear fine to medium rarely coarse grained, subangular to subrounded, subspherical, moderately sorted, argillaceous matrix, poor to fair visible porosity. No shows.

Base Lowermost Injectite Sand: 2008.9m MD
-1979.0m TVDSS / TWT 1934.1 msec

Balder Tuff: 2017.5m MD
-1987.8m TVDSS / TWT 1941.7 msec

Tuffaceous Claystone - Tuff: medium grey to medium blueish grey, moderately hard, blocky, silty, black/white specks, predominantly non calcareous.

Trace Sandstone: as sand, loose clear Quartz, coarse grained, subangular to subrounded, subspherical, moderately sorted.

Sele: 2074m MD
-2044.2m TVDSS / TWT 1986.9 msec

Claystone: predominantly olive black, firm, subblocky, slightly silty, trace to locally abundant disseminated micropyrite, rare carbonaceous material, non calcareous.

Limestone stringers/nodules: mudstone, pale yellow brown, moderately hard to hard, crypto- to microcrystalline, argillaceous, nil visible porosity. No shows.

Tuff: medium grey to medium bluish grey, moderately hard, blocky to amorphous, black/ white specks, non to locally moderately calcareous,

Lista: 2115m MD
-2085.1m TVDSS / TWT 2018.9 msec

Claystone: predominantly dark grey, also olive black and greenish black, firm, subblocky to subplaty, rarely silty and glauconitic, non calcareous.

Heimdal: 2169m MD
-2139.0m TVDSS / TWT 2060.4 msec

Limestone: mudstone, light grey to yellowish grey, firm to hard, cryptocrystalline, slightly argillaceous, no visible porosity. No shows.

Sandstone: quartzose, light grey, friable, clear to translucent Quartz, very fine to coarse predominantly fine to medium grained, subrounded, spherical, moderately sorted, abundant argillaceous/Kaolinitic matrix, rare calcareous cement, no visible porosity. No shows.

Symbols	Description
	Sandstone
	Siltstone
	Claystone
	Limestone
	Dolomite
	Anhydrite
	Coal
	Salt
	Chert
	Igneous
	Metamorphic
	Conglomerate
	Breccia
	Marl
	Tuff
	Volcanic Breccia
	Basement
	Oil Shows
	Gas Shows
	Water Flow
	Core Interval
	Drill Stem Test
	Casing
	Cement
	Fault
	Fracture
	Vertical Fracture
	Weathering
	Hole Condition
	Equipment Failure
	Crew Change

Formation depth (MD)
Formation depth (TVD)
Drill stem test
Perf. interval
Core
Sidewall core
Oil shows
Gas shows
Water flow
Lost circulation
Cement squeeze
Casing shoe
Completion interval
Hydrocarbon bearing
Water bearing
Geothermal interval
Gas injection
Water injection
Disposal well
Suspended
Abandoned
Junked and abandoned

Hole Size	From	To
17½"	0.00 m	1.00 m
12¼"	1.00 m	1.00 m
8½"	1.00 m	3,000.00 m

Casing	Shoe
13 3/8"	1.00 m
9 5/8"	1.00 m
7"	3,000.00 m

Formation	Top Depth
Hordaland Group	1,000.00 m
Rogaland Group	2,000.00 m
Shetland Group	2,500.00 m
Cromer Knoll Group	2,800.00 m
Tor Formation	2,900.00 m
Hod Formation	2,950.00 m
Blodøkse Formation	2,970.00 m
Hanse Formation	2,980.00 m
Ekofisk Formation	3,000.00 m
Tor Formation	3,050.00 m
Tyrihans Formation	3,100.00 m
Tyrihans Formation	3,150.00 m
Tyrihans Formation	3,200.00 m
Tyrihans Formation	3,250.00 m
Tyrihans Formation	3,300.00 m
Tyrihans Formation	3,350.00 m
Tyrihans Formation	3,400.00 m
Tyrihans Formation	3,450.00 m
Tyrihans Formation	3,500.00 m
Tyrihans Formation	3,550.00 m
Tyrihans Formation	3,600.00 m
Tyrihans Formation	3,650.00 m
Tyrihans Formation	3,700.00 m
Tyrihans Formation	3,750.00 m
Tyrihans Formation	3,800.00 m
Tyrihans Formation	3,850.00 m
Tyrihans Formation	3,900.00 m
Tyrihans Formation	3,950.00 m
Tyrihans Formation	4,000.00 m
Tyrihans Formation	4,050.00 m
Tyrihans Formation	4,100.00 m
Tyrihans Formation	4,150.00 m
Tyrihans Formation	4,200.00 m
Tyrihans Formation	4,250.00 m
Tyrihans Formation	4,300.00 m
Tyrihans Formation	4,350.00 m
Tyrihans Formation	4,400.00 m
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Tyrihans Formation	4,700.00 m
Tyrihans Formation	4,750.00 m
Tyrihans Formation	4,800.00 m
Tyrihans Formation	4,850.00 m
Tyrihans Formation	4,900.00 m
Tyrihans Formation	4,950.00 m
Tyrihans Formation	5,000.00 m
Tyrihans Formation	5,050.00 m
Tyrihans Formation	5,100.00 m
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Tyrihans Formation	5,800.00 m
Tyrihans Formation	5,850.00 m
Tyrihans Formation	5,900.00 m
Tyrihans Formation	5,950.00 m
Tyrihans Formation	6,000.00 m
Tyrihans Formation	6,050.00 m
Tyrihans Formation	6,100.00 m
Tyrihans Formation	6,150.00 m
Tyrihans Formation	6,200.00 m
Tyrihans Formation	6,250.00 m
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Tyrihans Formation	6,650.00 m
Tyrihans Formation	6,700.00 m
Tyrihans Formation	6,750.00 m
Tyrihans Formation	6,800.00 m
Tyrihans Formation	6,850.00 m
Tyrihans Formation	6,900.00 m
Tyrihans Formation	6,950.00 m
Tyrihans Formation	7,000.00 m
Tyrihans Formation	7,050.00 m
Tyrihans Formation	7,100.00 m
Tyrihans Formation	7,150.00 m
Tyrihans Formation	7,200.00 m
Tyrihans Formation	7,250.00 m
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Tyrihans Formation	7,950.00 m
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Tyrihans Formation	8,050.00 m
Tyrihans Formation	8,100.00 m
Tyrihans Formation	8,150.00 m
Tyrihans Formation	8,200.00 m
Tyrihans Formation	8,250.00 m
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Tyrihans Formation	8,400.00 m
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Tyrihans Formation	8,600.00 m
Tyrihans Formation	8,650.00 m
Tyrihans Formation	8,700.00 m
Tyrihans Formation	8,750.00 m
Tyrihans Formation	8,800.00 m
Tyrihans Formation	8,850.00 m
Tyrihans Formation	8,900.00 m
Tyrihans Formation	8,950.00 m
Tyrihans Formation	9,000.00 m
Tyrihans Formation	9,050.00 m
Tyrihans Formation	9,100.00 m
Tyrihans Formation	9,150.00 m
Tyrihans Formation	9,200.00 m
Tyrihans Formation	9,250.00 m
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Tyrihans Formation	9,550.00 m
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Tyrihans Formation	9,650.00 m
Tyrihans Formation	9,700.00 m
Tyrihans Formation	9,750.00 m
Tyrihans Formation	9,800.00 m
Tyrihans Formation	9,850.00 m
Tyrihans Formation	9,900.00 m
Tyrihans Formation	9,950.00 m
Tyrihans Formation	10,000.00 m
Tyrihans Formation	10,050.00 m
Tyrihans Formation	10,100.00 m
Tyrihans Formation	10,150.00 m
Tyrihans Formation	10,200.00 m
Tyrihans Formation	10,250.00 m
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Tyrihans Formation	10,600.00 m
Tyrihans Formation	10,650.00 m
Tyrihans Formation	10,700.00 m
Tyrihans Formation	10,750.00 m
Tyrihans Formation	10,800.00 m
Tyrihans Formation	10,850.00 m
Tyrihans Formation	10,900.00 m
Tyrihans Formation	10,950.00 m
Tyrihans Formation	11,000.00 m
Tyrihans Formation	11,050.00 m
Tyrihans Formation	11,100.00 m
Tyrihans Formation	11,150.00 m
Tyrihans Formation	11,200.00 m
Tyrihans Formation	11,250.00 m
Tyrihans Formation	11,300.00 m
Tyrihans Formation	11,350.00 m
Tyrihans Formation	11,400.00 m
Tyrihans Formation	11,450.00 m
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Tyrihans Formation	11,550.00 m
Tyrihans Formation	11,600.00 m
Tyrihans Formation	11,650.00 m
Tyrihans Formation	11,700.00 m
Tyrihans Formation	11,750.00 m
Tyrihans Formation	11,800.00 m
Tyrihans Formation	11,850.00 m
Tyrihans Formation	11,900.00 m
Tyrihans Formation	11,950.00 m
Tyrihans Formation	12,000.00 m
Tyrihans Formation	12,050.00 m
Tyrihans Formation	12,100.00 m
Tyrihans Formation	12,150.00 m
Tyrihans Formation	12,200.00 m
Tyrihans Formation	12,250.00 m
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Tyrihans Formation	12,600.00 m
Tyrihans Formation	12,650.00 m
Tyrihans Formation	12,700.00 m
Tyrihans Formation	12,750.00 m
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Tyrihans Formation	12,850.00 m
Tyrihans Formation	12,900.00 m
Tyrihans Formation	12,950.00 m
Tyrihans Formation	13,000.00 m
Tyrihans Formation	13,050.00 m
Tyrihans Formation	13,100.00 m
Tyrihans Formation	13,150.00 m
Tyrihans Formation	13,200.00 m
Tyrihans Formation	13,250.00 m
Tyrihans Formation	13,300.00 m
Tyrihans Formation	13,350.00 m
Tyrihans Formation	13,400.00 m
Tyrihans Formation	13,450.00 m
Tyrihans Formation	13,500.00 m
Tyrihans Formation	13,550.00 m
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Tyrihans Formation	13,700.00 m
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Tyrihans Formation	14,350.00 m
Tyrihans Formation	14,400.00 m
Tyrihans Formation	14,450.00 m
Tyrihans Formation	14,500.00 m
Tyrihans Formation	14,550.00 m
Tyrihans Formation	14,600.00 m
Tyrihans Formation	14,650.00 m
Tyrihans Formation	14,700.00 m
Tyrihans Formation	14,750.00 m
Tyrihans Formation	14,800.00 m
Tyrihans Formation	14,850.00 m
Tyrihans Formation	14,900.00 m
Tyrihans Formation	14,950.00 m
Tyrihans Formation	15,000.00 m
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