# KERR-McGEE NORTH SEA (U.K.) Ltd.



**NINIAN FIELD** 

WELL 3/03-C71 (C03RD)

FINAL GEOLOGICAL REPORT

**July 2002** 

# Kerr-McGee North Sea (U.K.) Ltd.

# KERR-McGEE NORTH SEA (UK) / CNR INTERNATIONAL MURPHY PETROLEUM / AGIP (UK) / TALISMAN ENERGY (UK)

## WELL 3/03-C71 (C03RD)

#### **NINIAN FIELD**

## FINAL GEOLOGICAL REPORT

**July 2002** 

Kerr McGee Ninian House Crawpeel Ro Altens Aberdeen AB	ad	
Tel: 01224-2		
Finalised By:	Chris Samson Support Geologist	Date
Approved By	: Mark Reeder	Date

Ninian Subsurface Manager

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Composite Log 3/03-C71

## I WELL DATA SUMMARY SHEET

#### **NINIAN (Central) FIELD**

Platform Reference Location:

(Latitude/Longitude): 60° 51' 24.420" N 01° 28' 09.712" E (UTM, Hayford Spheroid): 6747965.290m N 416842.853m E

Slot Number and Location: 29

(m from reference): 5.660m S 0.633m W

RT to MSL: 180ft
Water Depth: 440ft
RT to Seafloor: 620ft

Objectives: **Brent Group** 

Well: 3/03-C71 (C03RD)

Brent Group Entry Point: 12,580 ft MD [9,257 ft TVDss]

Total Depth: 13,315 ft MD [9,607 ft TVDss]

Spud Date: 1<sup>st</sup> March 2002 TD Date: 11<sup>th</sup> March 2002

Total Days on Contract: 32

Casing details:

13 3/8" shoe (original) at: 3,908 ft MD [3,488 ft TVDss]

9 5/8" casing at: **7,313 ft MD** [6,228 ft TVDss] 5 ½" production liner at: **13,305 ft MD** [9,607 ft TVDss]

Designation: Oil Producer

C71 was drilled to 13,315 ft MD using "Versaclean 2" Oil Based Mud (OBM) with a density of 12.4 ppg in the 8½" hole section.

**Status:-** Well 3/03-C71 was completed as an oil producer in March 2002.

At the time of this report C71 was producing 14,580 bbls fluid per day. (76% water cut) i.e. 3,500 bopd. To date, C71 has produced over 322,000bbls of oil.

#### II ABSTRACT

It was proposed to re-drill well C03 (slot 29) using an 8 ½" hole section to target oil adjacent to the Horst Fault in the central Main Field area with the objective of recovering approximately 1.3 mmstb of oil. The well was also planned to assist re-instating reservoir zonal management in the south-east region of the central main field adjacent to the Horst fault.

C03RD (C71) was expected to penetrate a full Brent sequence with the exception of the Tarbert and part of the F sand units. The primary oil zones were the A2 Broom, D & E Ness sands and potentially the Upper C2 Etive unit.

#### III OPERATIONAL INFORMATION

The rig was skidded to slot 29 and the abandonment of C03 began on 20<sup>th</sup> February 2002. Well C03 completion tubing (5 ½") was cut and retrieved by the 25<sup>th</sup> February. The 9 5/8" casing was cleaned out and Schlumberger set a casing bridge plug at 8,500ft MD. Schlumberger ran their UCIT log prior to the rig setting a "Trackmaster assembly" (whipstock).

The well was displaced to 12.3 ppg Versaclean OBM. A window was milled through the 9 5/8"casing from 7,317 to 7,330ft MD. New formation was drilled from 7,330 to 7,344ft MD. As an F.I.T. to 15.0ppg failed, a cement squeeze was done. This cement was then washed through and 36ft of new formation was drilled but with dynamic losses. Further cementing was needed, so a plug was set. On washing and reaming, firm cement was found at 7,315ft MD. This cement and new formation was drilled to 7,394ft MD. Dynamic losses were present so the mud weight was reduced to 11.2ppg.

On 5<sup>th</sup> March, the Autotrak drilling assembly was picked up and RIH. The 8 ½" hole was drilled to 12,449ft MD when a short trip to the shoe enabled mud chemicals to be taken onboard. Drilling resumed to TD at 13,315ft MD on 11<sup>th</sup> March 2002.

The 5 ½" production liner was hung at 6,805ft MD and shoe cemented at 13,305ft MD on 13<sup>th</sup> March. The well was displaced to sea water on 16<sup>th</sup> March and the completion run by 21<sup>st</sup> March. C71 was perforated with 3 3/8" guns and the well tested prior to skidding the rig on 23<sup>rd</sup> March when the well was handed over to Production Department.

Wellserve Ltd carried out further perforations using the mast towards the end of March and early April 2002.

#### IV FORMATION TOPS

Table 1 3/03-C71

Formation Top	Prognosed TVDss (ft)	Actual MD (ft)	Actual TVDss (ft)	Relative to prognosis	UTMs mN	UTMs mE
Kimmeridge (BCU)	9,220	12,398	9,173	47ft high	6747599.5	418768.8
Heather	N/A	12,554	9,245	N/A	6747558.4	418777.7
Top Brent Ness F1	9,265	Not present	Not present	Not present	Not present	Not present
E3	9,292	12,580	9,257	35ft high	6747551.6	418779.4
E2	9,322	12,619	9,274	48ft high	6747541.3	418781.8
E1	9,331	12,662	9,294	37ft high	6747530.0	418784.6
D2	9,338	12,689	9,306	32ft high	6747522.9	418786.4
D1	9,373	12,752	9,335	38ft high	6747506.3	418790.5
Etive C2	9,382	12775	9,346	36ft high	6747500.3	418792.0
C1b	9,400	12,841	9,378	22ft high	6747483.2	418796.5
C1a	9,425	12,872	9,393	32ft high	6747475.3	418798.6
Rannoch B	9,454	12,936	9,424	30ft high	6747458.8	418802.9
Broom A2	9,499	13,018	9,464	35ft high	6747437.7	418808.7
A1	9,523	13,061	9,485	38ft high	6747426.6	418811.8
Dunlin	9,545	13,115	9,511	34ft high	6747412.8	418815.7
TD	9,642	13,315	9,607	35ft high	6747361.5	418830.7

All formation tops are based on LWD logs and dependent on MD from the drill pipe tally. No independent wireline depth measurements/reference was made.

## V RESERVOIR STRATIGRAPHY

A summary of the reservoir stratigraphy encountered in well 3/03-C71 is presented on the Composite log. (Attachment 1). Formation tops were based upon Baker Hughes INTEQ LWD logs. Any shows in the reservoir were masked by the presence of oil based mud.

# VI FORMATION EVALUATION WHILE DRILLING (FEWD)

Baker Hughes INTEQ performed real-time FEWD as follows:

Table 2

LWD Toolstring	Run	Hole	Operating Depths	Bit - Sensor offsets(ft)						
Service Type	No.	size	(ft MD)	DIR	GR	RES	ORD	CCN	MAP	
DIR	1	8 1/2"	7,317 to 7,344	68.39	-	-	-	-	-	
ATK/APLS/MAP	2	8 ½"	7,394 to 13,315	33.76	17.36	18.66	45.90	53.63	58.47	

MWD/LWD Abbreviation Listing:-

DIR = Directional MWD Service; MAP = Modular Advanced Pressure Service; ATK = Autotrak

MPR = Multiple Propagation Resistivity Service (with Gamma Ray)

TC = Triple Combo service comprising GR, Resistivity + Density & Porosity Nuclear Measurements

#### MWD Run 1:

BHI ran their directional tool with the Trackmaster whipstock-mill assembly.

A whipstock was set at 7,340ft MD and the well displaced to 12.5 ppg OBM prior to milling a window to 7,330ft MD. New formation was drilled to 7,344ft MD. An F.I.T suggested the need to carry out a cement squeeze. The MWD tool performed to specification throughout the run.

## **LWD Run 2:**

An AutoTrak assembly provided realtime GR, Resistivity, Neutron Porosity, Density and Annular Pressure. The caliper calibrated inside the shoe against a known I.D. As the mud weight was 11.2ppg instead of 12.5ppg at TD, the caliper showed a smaller I.D. AutoTrak was used to build and turn the wellbore to the tangent section. The well was then turned and dropped into the target. The AutoTrak produced a good quality realtime log using a fast telemetry. Gaps in the realtime log were attributed to sending downlinks to the tool. At surface the memory data was downloaded to produce a continuous high quality memory log.

Maximum circulating BHT recorded was 210°F.

#### VII MUDLOGGING PROCEDURES

HRH Ltd provided Geo-logging services, beginning at the start of the 8½" hole section.

Two sets of bulk cuttings were collected at 30ft intervals from the start of the 8½" hole to above the reservoir. From thereon on, 10ft samples were collected to TD at 13,315ft MD.

A 1:500 scale measured depth lithology log was produced while geo-logging. This was integrated in the 1:500 scale measured depth composite log (Attachment 1).

#### VIII BIOSTRATIGRAPHY

No wellsite biostratigraphy was planned for or done during the drilling of the well.

# IX PETROPHYSICS

Petrophysical analysis for C71 was carried out by Craig Peck of KMG - Oklahoma, using the Ninian Annex B model. The petrophysical report accompanies this Final Geological report on CD.

# X WELL RESULTS

C71 was perforated in March and April 2002 with 3 3/8" TCP guns at 6 spf 60° phasing. The well was completed as an oil producer in March 2002.

At the time of this report C71 was producing approximately 14,580 bbls fluid per day. (76% water cut) i.e. 3,500 bopd. To date the well has produced in excess of 322,000bbls of oil.

**Table 3 Perforation Intervals** 

Formation	Date	Perforated Intervals (ft MD)
Etive C2	Early April 2002	12,775 to 12,795
Rannoch B	21 <sup>st</sup> March 2002	12,952 to 12,982

# APPENDIX A

# **DEFINITIVE SURVEY 3/03-C71**

Depth	Incl	Azi	TVD	TVDSS	UTM N	UTM E	Rect	Co-ords	DLS	VS
(ft)	0	0	(ft)	(ft)	(m)	(m)	(ft)	(ft)	°/100ft	(ft)
0	0.0	0.0	0.0	-180.0	6747959.6	416842.2	18.57S	2.94E	0.0	0.0
620	0.0	0.0	620.0	440.0	6747959.6	416842.2	18.57S	2.94E	0.0	0.0
700	0.3	146.7	700.0	520.0	6747959.6	416842.3	18.73S	3.04E	0.3	0.2
800	0.3	125.4	0.008	620.0	6747959.5	416842.4	19.10S	3.42E	0.1	0.6
900	8.0	125.6	900.0	720.0	6747959.3	416842.6	19.65S	4.19E	0.4	1.4
1000	0.9	125.0	1000.0	820.0	6747959.1	416843.0	20.47S	5.35E	0.1	2.5
1100	0.9	123.8	1100.0	920.0	6747958.8	416843.3	21.34S	6.63E	0.0	3.6
1200	0.9	121.5	1200.0	1020.0	6747958.5	416843.8	22.20S	7.97E	0.1	4.8
1300	1.0	119.6	1299.9	1119.9	6747958.3	416844.2	23.07S	9.44E	0.1	6.0
1400	1.1	118.4	1399.9	1219.9	6747958.0	416844.7	23.94S	11.02E	0.1	7.3
1500	1.1	116.8	1499.9	1319.9	6747957.7	416845.2	24.81S	12.68E	0.0	8.6
1600	1.1	116.6	1599.9	1419.9	6747957.5	416845.7	25.68S	14.42E	0.1	9.8
1700	1.7	115.5	1699.9	1519.9	6747957.1	416846.4	26.76S	16.63E	0.5	11.5
1800	2.9	122.0	1799.8	1619.8	6747956.5	416847.4	28.71S	20.07E	1.2	14.2
1900	4.4	131.5	1899.6	1719.6	6747955.4	416849.0	32.59S	25.08E	1.7	19.3
2000	6.0	129.4	1999.2	1819.2	6747953.6	416851.1	38.46S	32.00E	1.6	26.7
2100	6.7	116.4	2098.6	1918.6	6747951.8	416853.9	44.37S	41.26E	1.6	34.8
2200	7.9	104.4	2197.8	2017.8	6747950.5	416857.5	48.67S	53.14E	1.9	42.1
2300	9.6	100.0	2296.6	2116.6	6747949.5	416862.0	51.81S	67.95E	1.8	48.9
2400	11.6	99.5	2394.9	2214.9	6747948.6	416867.5	54.91S	86.05E	2.1	56.6
2500	13.9	99.2	2492.4	2312.4	6747947.5	416874.2	58.50S	107.82E	2.3	65.7
2600	16.3	98.2	2589.0	2409.0	6747946.3	416882.0	62.41S	133.51E	2.4	76.1
2700	18.7	99.2	2684.3	2504.3	6747944.9	416891.1	66.95S	163.20E	2.5	88.2
2800	21.5	99.1	2778.2	2598.2	6747943.2	416901.4	72.41\$	197.13E	2.8	102.3
2900	24.5	99.1	2870.3	2690.3	6747941.3	416913.1	78.60S	235.67E	3.0	118.2 136.1
3000 3100	27.5 30.4	99.1 99.0	2960.2 3047.7	2780.2 2867.7	6747939.2 6747936.9	416926.3 416940.9	85.55S 93.15S	278.90E 326.70E	3.0	155.8
3200	33.6	98.2	3132.5	2952.5	6747934.5	416956.8	101.02S	379.10E	3.1	177.0
3300	36.7	98.7	3214.3	3034.3	6747932.0	416974.2	101.02S	436.00E	3.2	199.9
3400	39.7	98.8	3292.9	3112.9	6747929.1	416992.8	118.82S	497.08E	3.0	224.7
3500	41.6	98.5	3368.8	3188.8	6747926.1	417012.4	128.60S	561.46E	2.0	250.8
3600	42.4	98.2	3443.1	3263.1	6747923.2	417032.6	138.30S	627.67E	0.8	277.3
3700	42.9	98.5	3516.6	3336.6		417053.0	148.12S			304.2
3800	43.4	98.6	3589.6	3409.6	6747917.1	417073.6	158.28S	762.32E	0.5	331.5
3900	42.9	98.4	3662.6	3482.6	6747914.0	417094.2	168.39S	829.93E	0.5	358.8
4000	42.8	98.6	3735.9	3555.9	6747910.9	417114.7	178.44S	897.18E	0.2	385.9
4100	42.8	98.7	3809.3	3629.3	6747907.8	417135.2	188.67S	964.35E	0.1	413.1
4200	42.6	98.9	3882.8	3702.8	6747904.7	417155.6	199.03S	1031.33E	0.2	440.5
4300	42.1	99.3	3956.7	3776.7	6747901.4	417175.8	209.63S	1097.86E	0.5	467.9
4400	41.8	98.4	4031.0	3851.0	6747898.3	417196.0	219.91S		0.6	495.0
4500	41.3	98.8	4105.9	3925.9	6747895.3	417216.0	229.83S		0.6	521.5
4600	41.1	98.5	4181.1	4001.1	6747892.2	417235.8	239.74S		0.3	548.0
4700	40.8	98.3	4256.6	4076.6	6747889.3	417255.6	249.35S	1359.55E	0.3	574.0
4800	40.2	98.3	4332.7	4152.7	6747886.5	417275.2	258.74S		0.7	599.7
4900	39.6	98.6	4409.4	4229.4	6747883.6	417294.5	268.18S	1487.21E	0.6	625.3

5300         37.2         98.5         4721.9         4541.9         6747869.6         417387.8         313.97S         1793.53E         0.6         724.6           5400         36.7         98.9         4801.8         6747869.6         417387.8         313.97S         1793.53E         0.6         748.6           5500         36.6         99.4         4882.1         4702.1         6747866.7         417423.6         333.43S         1911.05E         0.4         779.0           5600         36.4         190.9         4962.5         6747865.7         4174423.6         333.43S         1911.05E         0.4         798.0           5900         36.1         100.1         5204.4         6747856.3         4174476.8         365.15S         2085.5         103.6           6000         35.6         102.1         5228.5         5105.6         6747850.4         417476.8         365.15S         2085.53E         0.6         873.8           6100         35.5         103.0         5366.9         5186.9         674786.6         417511.5         389.47S         2199.59E         0.6         926.8           6200         35.1         105.1         5550.1         5350.1         6747828.2         4175	Depth	Incl	Azi	TVD	TVDSS	UTM N	UTM E	Rect	Co-ords	DLS	VS
5100         38,9         98.3         4664.2         4384.2         6747875.1         417351.3         295.915         1673.80E         1.0         700.3           5300         37.2         98.5         4642.6         6462.6         6747872.4         4173587.3         295.915         1673.80E         1.0         700.3           5400         36.7         98.9         4801.8         6421.8         6747866.6         417387.8         313.975         1793.53E         0.6         748.8           5500         36.4         99.9         4802.5         4782.5         6747863.7         417423.6         333.43S         1911.05E         0.4         7792.2           5600         36.4         99.9         4862.5         4782.5         6747863.7         417423.6         333.43S         1911.05E         0.4         7792.0           5700         36.4         100.3         5043.0         4863.0         6747866.5         417441.4         343.88S         1969.96E         0.2         2823.2           5800         36.1         100.1         522.6         493.3         6747850.5         417444.1         343.89         199.99E         6.0         873.8           6100         35.5         103.0	(ft)	•	0	(ft)	(ft)	(m)	(m)	(ft)	(ft)	°/100ft	(ft)
5200         37.8         98.5         4642.6         6747875.1         417361.3         295.15         1673.80E         1.0         702.4           5300         37.2         98.5         4721.9         4541.9         6747872.4         417369.7         304.885         1734.07E         0.6         724.6           5500         36.6         99.4         4882.1         4702.1         6747868.7         417405.8         323.455         195.24E         0.4         773.2           5600         36.4         100.3         5043.0         4863.0         6747863.7         417426.8         333.435         1911.05E         0.4         779.0           5700         36.4         100.3         5043.0         4863.0         6747860.5         4174476.3         334.85         196.9E         0.2         823.2           5900         36.1         100.1         5123.6         493.6         6747860.5         417449.3         376.855         1272.6         0.3         861.0           6000         35.6         102.1         5285.5         5105.6         6747850.5         4174850.2         219.599.0         0.6         926.8           6100         35.5         103.0         5366.9         5186.9	5000	39.3	98.5	4486.6	4306.6	6747880.7	417313.6	277.64S	1550.06E	0.3	650.7
5300   37.2   98.5   4721.9   4541.9   6747869.6   417387.8   313.975   1793.53E   0.6   748.6     5400   36.6   99.4   4882.1   4702.1   6747866.7   417405.8   323.455   1852.45E   0.4   773.2     5600   36.6   99.9   4862.5   4782.5   6747866.7   417405.8   323.455   1852.45E   0.4   773.2     5600   36.4   99.9   9462.5   4782.5   6747860.5   417440.8   333.435   1911.05E   0.4   789.0     5700   36.1   100.1   5123.6   4943.6   6747867.3   417445.9   334.375   2027.67E   0.3   848.4     5900   36.1   100.1   5204.4   5024.4   6747854.0   417476.8   365.155   2085.53E   0.6   873.8     6000   35.6   102.1   5228.5   5105.5   6747850.5   417440.3   365.155   2085.53E   0.6   873.8     6100   35.5   103.0   5366.9   5186.9   6747846.6   417511.5   389.475   2199.59E   0.6   926.8     6200   35.4   104.4   5448.4   5268.4   6747842.4   417528.7   403.205   2255.89E   0.8   954.6     6300   35.1   105.5   5553.0   5350.1   5350.1   6747832.9   417564.2   433.52S   2366.44E   0.9   1012.5     6400   34.3   106.1   5612.3   5432.3   6747828.3   417562.4   433.52S   2366.44E   0.9   1012.5     6600   32.7   108.6   5778.8   5598.8   6747823.2   417562.4   433.52S   2366.44E   0.9   1012.5     6600   31.5   110.7   5948.2   5683.2   6747812.3   417564.5   539.92S   2668.66E   0.8   1104.7     6700   32.1   109.7   5863.2   5683.2   6747812.3   417564.5   539.92S   2668.66E   0.8   1104.7     7000   31.1   112.2   6119.4   5939.4   674780.8   41768.4   580.69S   2766.05E   0.9   1258.1     7300   32.7   113.1   6289.2   6109.2   6747781.8   417610.1   484.02S   252.91E   0.8   1104.7     7310   331.1   133.   6373.2   6193.2   6747781.8   417610.1   484.02S   282.91E   0.8   1104.7     7300   33.1   113.3   6333.7   5653.7   674780.8   417654.5   539.92S   2668.66E   0.5   1193.5     7300   35.5   112.5   644.5   6255.0   6747760.8   417767.9   600.48   282.54   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   600.48   60	5100	38.9	98.3	4564.2	4384.2	6747877.9	417332.6	286.85S	1612.42E	0.5	675.7
5400         36.7         98.9         4801.8         4621.8         6747866.7         417367.6         323.455         1793.53E         0.6         748.8           5500         36.6         99.4         4882.1         4702.1         6747866.7         417402.6         333.455         1810.05         0.4         773.2           5700         36.4         99.9         4862.5         47863.7         417459.2         633.435         1911.05E         0.4         798.0           5700         36.4         100.3         5043.0         4863.0         6747865.0         417441.4         343.885         199.9         6.0         0.3         6.0         0.0         36.0         101.0         5204.4         5024.4         6747865.0         417494.3         36.855.2         128.2         0.3         848.6           6000         35.6         102.1         5285.5         516.5         6747866.0         417511.5         388.47S         2199.59E         0.6         926.8           6200         35.1         104.5         5448.4         5268.4         6747882.4         417562.7         418.06S         2311.64E         0.7         983.4           6300         35.1         105.5         5530.1	5200	37.8	98.5	4642.6	4462.6	6747875.1	417351.3	295.91S	1673.80E	1.0	700.3
5400         36.7         98.9         4801.8         6421.8         6747866.7         417405.8         323.455         1852.45E         0.4         773.2           5500         36.4         99.9         4862.5         4782.5         6747863.7         417402.6         333.43S         1911.05E         0.4         793.0           5700         36.4         100.3         5043.0         4863.0         6747867.5         417459.2         353.43S         1911.05E         0.4         798.0           5900         36.0         101.0         5204.4         5024.4         6747854.0         417478.8         365.15S         2085.53E         0.3         848.4           6000         35.6         102.1         5285.5         5105.5         6747864.0         417478.8         365.15S         2085.53E         0.6         873.8           6100         35.6         102.1         5285.5         5105.5         6747864.0         417549.3         376.85S         2142.85E         0.7         899.9           6100         35.6         104.8         5448.4         5268.4         6747882.4         417552.7         418.06S         2311.64E         0.7         983.4           6300         35.1         105.5 </td <td>5300</td> <td>37.2</td> <td>98.5</td> <td>4721.9</td> <td>4541.9</td> <td>6747872.4</td> <td>417369.7</td> <td>304.88S</td> <td>1734.07E</td> <td>0.6</td> <td>724.6</td>	5300	37.2	98.5	4721.9	4541.9	6747872.4	417369.7	304.88S	1734.07E	0.6	724.6
5500         36.6         99.4         4882.1         4702.1         6747866.7         417405.8         323.455         1852.455         0.4         779.2           5600         36.4         190.3         5043.0         4863.0         6747860.5         417441.4         343.88         1911.05E         0.4         798.2           5800         36.1         100.1         5123.6         4943.6         6747857.3         417449.2         354.37S         2027.67E         0.3         884.4           5900         36.0         101.0         5204.4         5024.4         6747857.3         417476.8         365.15S         2085.55E         0.6         873.8           6000         35.6         102.1         5285.5         5105.5         674786.0         417444.3         376.855         2142.85E         0.7         899.9           6100         35.5         103.0         5366.9         5186.9         6747846.6         417511.5         389.47S         2199.59E         0.6         968.8           6200         35.4         104.6         4848.4         5284.4         6747842.4         41752.4         413.522.2         2265.89E         0.6         926.8           6500         33.3         1073.5<		36.7	98.9	4801.8		6747869.6	417387.8	313.97S	1793.53E	0.6	748.8
5600         36.4         99.9         4962.5         4782.5         6747863.7         417423.6         333.43S         1911.05E         0.4         798.0           5700         36.4         100.3         5043.0         4863.0         6747860.5         417441.4         33.488S         1969.46E         0.2         823.5           5800         36.1         100.1         5123.6         4943.6         6747854.0         417476.8         366.15S         2027.67E         0.3         848.4           5900         36.0         101.0         5204.4         5024.4         6747854.0         417476.8         366.15S         2085.53E         0.6         873.8           6000         35.5         103.1         5366.9         5186.9         6747846.6         417511.5         398.47S         2199.59E         0.6         926.8           6200         35.1         104.4         5484.8         5268.4         6747842.4         417547.5         448.06S         2311.6EE         0.7         984.6           6300         33.1         107.3         5695.1         5647833.2         4747823.2         417562.4         433.52S         2366.44E         0.9         1012.5           6600         32.7         10						+					
5700         36.4         100.3         5043.0         4863.0         6747860.5         417441.4         343.88S         1969.46E         0.2         823.2           5800         36.1         100.1         5123.6         4943.6         6747867.3         417476.8         363.75         2027.67E         0.3         848.4           5900         36.0         101.0         5204.4         5024.4         674786.0         417476.8         365.15S.2085.3         0.0         887.8           6000         35.6         102.1         5285.5         5105.5         6747866.5         417494.3         376.855         2142.85E         0.7         899.9           6100         35.5         103.0         5366.9         5186.8         6747846.4         417528.7         403.205.255.89E         0.6         926.8           6200         35.4         105.5         5530.1         5350.1         6747833.2         417562.7         418.06S         2311.64E         0.7         983.4           6400         34.3         1061.5         5612.3         5432.3         6747833.2         417562.4         433.52S.2366.4E         0.9         1012.5           6500         33.8         107.3         56852.5         5687.8		36.4	99.9		4782.5	6747863.7	417423.6	333.43S	1911.05E	0.4	
5800         36.1         100.1         5123.6         4943.6         6747857.3         417459.2         354.37S         2027.67E         0.3         848.4           5900         36.0         101.0         5204.4         5024.4         6747854.0         417476.8         365.15S         2085.5S         0.6         873.8           6000         36.6         102.1         5285.5         5105.5         6747865.0         417494.3         376.85S         2124.85E         0.7         899.9           6100         35.5         103.0         6366.9         5186.9         6747846.6         417511.5         389.47S         2193.59E         0.6         922.8           6200         35.1         104.4         5484.8         5264.4         6747842.3         417545.7         418.06S         2311.64E         0.7         938.4           6400         34.3         106.1         5612.3         5432.3         6747828.3         417562.4         433.52S         2366.4E         0.9         1012.5           6500         32.7         108.6         5778.8         5598.8         6747828.3         417562.4         430.42S         2272.28E         1.0         1071.2           600         31.5         110.7<											
5900         36.0         101.0         5204.4         5024.4         6747854.0         417476.8         365.15S         2085.53E         0.6         873.8           6000         35.6         102.1         5285.5         5105.5         6747850.5         417494.3         376.85S         2142.85E         0.7         899.9           6100         35.5         103.0         5366.9         5186.9         6747846.6         417511.5         389.475         2195.59E         0.6         926.8           6200         35.4         104.4         5448.4         5268.4         6747842.4         417528.7         403.20S         2255.89E         0.8         954.6           6300         35.1         105.5         5530.1         5350.1         6747827.9         417545.7         443.282         2361.64E         0.9         1012.5           6500         33.8         107.3         5695.1         5515.1         6747823.2         41759.6         466.44S         2472.2EE         1.4         1017.6           6600         32.7         108.6         5778.8         5598.8         6747823.2         41759.6         466.44S         2472.2EE         1.4         1017.7           6700         32.1         107.		36.1									
6000 35.6 102.1 5285.5 5105.5 6747850.5 417494.3 376.85S 2142.85E 0.7 899.9 6100 35.5 103.0 5366.9 5186.9 6747846.6 417511.5 389.47S 2195.59E 0.6 926.8 6200 35.4 104.4 5448.4 \$2684.6 6747842.4 417528.7 403.20S 199.59E 0.8 954.6 6300 35.1 105.5 5530.1 5350.1 6747837.9 417545.7 418.06S 2311.64E 0.7 983.4 6400 34.3 106.1 5612.3 5432.3 6747833.2 417562.4 433.52S 2366.44E 0.9 1012.5 6500 33.8 107.3 5695.1 5515.1 6747828.3 417578.7 449.58S 2420.10E 0.8 1041.9 6600 32.7 108.6 5778.8 5598.8 6747823.2 417562.4 433.52S 2366.44E 0.9 1012.5 6700 32.1 109.7 5863.2 5683.2 6747817.8 417610.1 484.02S 2522.91E 0.8 1101.8 6800 31.5 110.7 5948.2 5768.2 6747812.3 417625.1 502.22S 2572.38E 0.8 1101.8 6900 31.0 111.3 6033.7 5853.7 6747806.6 417639.9 520.81S 2620.78E 0.6 1162.7 7000 31.1 112.2 6119.4 5939.4 6747800.8 417654.5 539.92S 2668.66E 0.5 1193.5 7100 37.8 112.8 6204.6 6024.6 6747794.7 417669.2 559.89S 2716.88E 0.8 1253.3 7200 32.7 113.1 6289.2 6109.2 6747781.8 417694.4 1580.69S 2766.058 0.9 1254.7 7313 33.1 113.3 6384.1 6204.1 609.2 6747781.8 417694.4 1580.69S 2766.058 0.9 1254.7 7350 35.5 112.5 6414.7 6234.7 6247778.4 417761.3 604.85S 2822.45E 0.4 1291.7 7313 33.1 113.3 6384.1 6204.1 6747781.0 417701.3 604.85S 2822.45E 0.4 1291.7 7400 36.0 111.4 6455.2 6275.3 6747775.2 417715.4 623.95S 2868.70E 0.7 1326.5 7425 36.6 109.3 6457.4 6294.7 6747775.4 417714.3 618.50S 2855.11E 0.9 137.7 7400 36.0 111.4 6455.2 6275.3 6747775.2 417715.4 623.95S 2868.70E 2.7 1326.5 7555 40.5 98.7 6669.4 634.4 624.6 6354.7 6747775.4 417714.3 618.50S 2855.11E 0.9 137.3 7455 36.6 109.3 6654.1 6354.1 6374.1 6747766.8 417717.3 648.6 25.2 941.99E 4.9 1361.2 7500 38.8 100.3 6573.3 6393.3 674776.7 41774.4 651.28S 2957.66E 5.2 1373.3 7575 40.5 98.7 6669.4 649.		36.0						365.15S			
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6800 31.5 110.7 5948.2 5768.2 6747812.3 417625.1 502.22S 2572.38E 0.8 1132.2 6900 31.0 111.3 6033.7 5853.7 6747806.6 417639.9 520.81S 2620.78E 0.6 1162.7 7000 31.1 112.2 6119.4 5939.4 6747800.8 417654.5 539.92S 2666.66E 0.5 1193.5 7100 31.8 112.8 6204.6 6024.6 6747794.7 417669.2 559.89S 2716.88E 0.8 1225.3 7200 32.7 113.1 6289.2 6109.2 6747781.4 417694.1 580.69S 2766.05E 0.9 1258.1 7300 33.1 113.3 6373.2 6193.2 6747781.8 417699.4 602.04S 2815.94E 0.4 1291.7 7313 33.1 113.3 6384.1 6204.1 6747781.0 417701.3 604.85S 2822.45E 0.4 1296.1 7350 35.5 112.5 6414.7 6234.7 6747778.5 417707.2 612.96S 2841.66E 6.6 1308.9 7375 35.7 112.3 6435.0 6255.0 6747778.8 417717.2 612.96S 2845.60E 0.9 1317.7 7400 36.0 111.4 6455.2 6275.3 6747775.2 417715.4 623.95S 2868.70E 2.7 1326.5 7425 36.6 109.3 6475.4 6295.4 6747773.6 417719.7 629.09S 2882.59E 5.4 1335.0 7450 37.3 107.1 6495.4 6315.4 6747777.2 417724.0 633.78S 2896.87E 6.1 1343.3 7475 38.1 105.5 6515.1 6335.1 6747770.2 417724.0 633.78S 2896.87E 6.1 1343.3 7550 38.8 103.8 6534.7 6354.7 6747769.7 417733.1 642.00S 2926.60E 5.2 1358.9 7525 39.5 102.1 6554.1 6374.1 6747768.6 417737.8 645.52S 2941.98E 4.9 1351.2 7500 38.8 103.8 6534.7 6354.7 6747769.7 41773.6 642.00S 2926.60E 5.2 1358.9 7525 39.5 102.1 6554.1 6374.1 6747768.6 417737.8 645.52S 2947.98E 4.9 1366.3 7550 40.1 100.3 6573.3 6393.3 6747767.7 417742.5 648.62S 2957.60E 5.2 1373.3 7575 40.5 98.7 6592.4 6412.4 6747768.6 417737.3 642.00S 2926.60E 5.2 1373.3 7575 40.5 98.7 6592.4 6412.4 6747766.8 417777.3 655.40S 3005.98E 4.0 1392.4 77700 42.8 90.6 6686.1 6506.1 6747765.2 417752.3 655.40S 3005.98E 4.0 1392.4 77705 43.8 98.6 6630.3 6450.3 6747765.6 417762.3 656.84S 3022.43E 4.8 1398.0 77755 43.3 98.4 6704.4 6524.4 6747764.9 417778.2 688.28 3090.21E 3.9 1416.5 7775 44.6 86.7 6740.4 6506.4 6747765.1 417778.9 655.84S 300.2.45E 5.1 1420.3 7700 42.8 90.6 6686.1 6506.1 6747765.5 417762.3 655.84S 3105.65E 5.1 1420.3 7800 45.4 85.5 6758.1 6578.1 6747764.9 417779.9 658.84S 3125.25E 4.7 1423.7 7805 48.8 83.7 6802.5 6642.5 6747764.9 417779.0 65											
6900         31.0         111.3         6033.7         5853.7         6747806.6         417639.9         520.81S         2620.78E         0.6         1162.7           7000         31.1         112.2         6119.4         5939.4         6747800.8         417654.5         539.92S         2668.66E         0.5         1193.5           7100         31.8         112.8         6204.6         6024.6         6747794.7         417669.2         559.89S         2716.88E         0.8         1225.3           7200         32.7         113.1         6289.2         6109.2         6747781.8         41769.4         180.29         2766.05E         0.9         1228.1           7300         33.1         113.3         6373.2         6193.2         6747781.8         417699.4         602.04S         2815.94E         0.4         1291.7           7313         33.1         113.3         6384.1         6204.1         6747778.5         417701.3         604.855         282.45E         0.4         1291.7           7353         35.5         112.3         6435.0         6255.0         6747778.5         417717.7         612.96S         2841.66E         6.6         1308.9         7375         35.7         112.3         <											
7000         31.1         112.2         6119.4         5939.4         6747800.8         417654.5         539.92S         2668.66E         0.5         1193.5           7100         31.8         112.8         6204.6         6024.6         6747794.7         417669.2         559.89S         2716.88E         0.8         1225.3           7200         32.7         113.1         6289.2         6109.2         6747781.8         417699.4         602.04S         2815.94E         0.4         1291.7           7303         33.1         113.3         6334.1         6204.1         6747781.0         417701.3         604.855         2822.45E         0.4         1296.1           7350         35.5         112.5         6414.7         6234.7         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747775.2         417714.0         633.78S         2886.70E         2.7         1326.5           7425         36.6         109.3         6475.4         6295.4         6747777.2         417724.0         633.78S         2896.87E         6.1         1343.3           7475         38.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7100         31.8         112.8         6204.6         6024.6         6747794.7         417669.2         559.89S         2716.88E         0.8         1225.3           7200         32.7         113.1         6289.2         6109.2         6747788.4         417684.1         580.69S         2766.05E         0.9         1258.1           7300         33.1         113.3         6373.2         6193.2         6747781.8         417699.4         602.04S         2815.94E         0.4         1291.7           7313         33.1         113.3         6384.1         6204.1         6747781.8         417707.2         612.96S         2841.66E         6.6         1308.9           7350         35.5         112.5         6414.7         6234.7         6747778.5         417707.2         612.96S         2841.66E         6.6         1308.9           7375         35.7         112.3         6435.0         6255.0         6747775.2         417715.3         613.60S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747775.2         417715.4         623.95S         2868.70E         2.7         1326.5           7425         36.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7200         32.7         113.1         6289.2         6109.2         6747788.4         417684.1         580.69S         2766.05E         0.9         1258.1           7300         33.1         113.3         6373.2         6193.2         6747781.8         417699.4         602.04S         2815.94E         0.4         1291.7           7313         33.1         113.3         6384.1         6204.1         6747778.5         417707.2         612.96S         2821.245E         0.4         1296.1           7350         35.5         112.5         6414.7         6234.7         6747776.8         417711.3         618.50S         2851.1E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747775.2         417715.4         623.95S         2868.70E         2.7         1326.5           7425         36.6         109.3         6475.4         6295.4         6747777.2         417724.0         633.78S         2896.87E         6.1         1334.3           7450         38.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7300         33.1         113.3         6373.2         6193.2         6747781.8         417699.4         602.04S         2815.94E         0.4         1291.7           7313         33.1         113.3         6384.1         6204.1         6747781.0         417701.3         604.85S         2822.45E         0.4         1296.1           7350         35.5         112.5         6414.7         6234.7         6747778.5         417707.2         612.96S         2841.66E         6.6         1308.9           7375         35.7         112.3         6435.0         6255.0         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747773.6         417719.4         623.95S         2868.70E         2.7         1326.5           7450         37.3         107.1         6495.4         6315.4         6747772.2         417724.0         633.78S         2896.87E         6.1         1343.3           7450         38.1         105.5         6515.1         6335.1         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7313         33.1         113.3         6384.1         6204.1         6747781.0         417701.3         604.85S         2822.45E         0.4         1296.1           7350         35.5         112.5         6414.7         6234.7         6747778.5         417707.2         612.96S         2841.66E         6.6         1308.9           7375         35.7         112.3         6435.0         6255.0         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747773.6         417719.7         629.09S         2882.59E         2.7         1326.5           7450         37.3         107.1         6495.4         6315.4         6747773.6         417719.7         629.09S         2882.59E         5.4         1335.0           7450         37.3         107.1         6495.4         6315.4         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
7350         35.5         112.5         6414.7         6234.7         6747778.5         417707.2         612.96S         2841.66E         6.6         1308.9           7375         35.7         112.3         6435.0         6255.0         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747775.2         417715.4         623.95S         2868.70E         2.7         1326.5           7425         36.6         109.3         6475.4         6295.4         6747773.6         417719.7         629.09S         2882.59E         5.4         1335.0           7450         37.3         107.1         6495.4         6747770.9         417724.0         633.78S         2896.87E         6.1         1343.3           7475         38.1         105.5         6515.1         6335.1         6747770.9         417728.5         633.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
7375         35.7         112.3         6435.0         6255.0         6747776.8         417711.3         618.50S         2855.11E         0.9         1317.7           7400         36.0         111.4         6455.2         6275.3         6747775.2         417715.4         623.95S         2868.70E         2.7         1326.5           7425         36.6         109.3         6475.4         6295.4         6747773.6         417719.7         629.09S         2882.59E         5.4         1335.0           7450         37.3         107.1         6495.4         6315.4         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         674776.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
7400         36.0         111.4         6455.2         6275.3         6747775.2         417715.4         623.95\$         2868.70E         2.7         1326.5           7425         36.6         109.3         6475.4         6295.4         6747773.6         417719.7         629.09\$         2882.59E         5.4         1335.0           7450         37.3         107.1         6495.4         6315.4         6747770.9         417724.0         633.78\$         2896.87E         6.1         1343.3           7475         38.1         105.5         6515.1         6335.1         6747770.9         417733.1         642.00\$         2926.60E         5.2         1358.9           7500         38.8         103.8         6534.7         6354.7         6747768.6         417733.1         642.00\$         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         41773.8         645.522         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747766.8         41774.4         651.28S         2973.60E         5.2         1373.3           7575         40.5											
7425         36.6         109.3         6475.4         6295.4         6747773.6         417719.7         629.09S         2882.59E         5.4         1335.0           7450         37.3         107.1         6495.4         6315.4         6747772.2         417724.0         633.78S         2896.87E         6.1         1343.3           7475         38.1         105.5         6515.1         6335.1         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747767.7         41774.4         651.28S         2973.60E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         417757.3         653.54S         2989.72E         3.8         1386.4           7625         41.1						+					
7450         37.3         107.1         6495.4         6315.4         6747772.2         417724.0         633.78S         2896.87E         6.1         1343.3           7475         38.1         105.5         6515.1         6335.1         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747767.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         417757.3         653.54S         2989.72E         3.8         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6											
7475         38.1         105.5         6515.1         6335.1         6747770.9         417728.5         638.07S         2911.55E         4.9         1351.2           7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747767.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         41774.4         651.28S         2973.60E         4.5         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1380.0           7625         41.1         95.8         6630.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649											
7500         38.8         103.8         6534.7         6354.7         6747769.7         417733.1         642.00S         2926.60E         5.2         1358.9           7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747767.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         417747.4         651.28S         2973.60E         4.5         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1386.4           7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6469.0         6747764.9         417767.3         655.40S         3002.43E         4.8         1398.0           7700         42.8         90											
7525         39.5         102.1         6554.1         6374.1         6747768.6         417737.8         645.52S         2941.98E         4.9         1366.3           7550         40.1         100.3         6573.3         6393.3         6747767.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         417747.4         651.28S         2973.60E         4.5         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1386.4           7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6747765.2         417767.3         655.40S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.											
7550         40.1         100.3         6573.3         6393.3         6747767.7         417742.5         648.62S         2957.66E         5.2         1373.3           7575         40.5         98.7         6592.4         6412.4         6747766.8         417747.4         651.28S         2973.60E         4.5         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1386.4           7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6469.0         6747765.2         417762.3         656.84S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2											
7575         40.5         98.7         6592.4         6412.4         6747766.8         417747.4         651.28S         2973.60E         4.5         1380.0           7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1386.4           7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6469.0         6747765.2         417762.3         656.84S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417777.7         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2<											
7600         40.8         97.3         6611.4         6431.4         6747766.2         417752.3         653.54S         2989.72E         3.8         1386.4           7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6469.0         6747765.2         417762.3         656.84S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417772.5         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7<											
7625         41.1         95.8         6630.3         6450.3         6747765.6         417757.3         655.40S         3005.98E         4.0         1392.4           7650         41.6         94.2         6649.0         6469.0         6747765.2         417762.3         656.84S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417772.5         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7825         46.3         84.8<											
7650         41.6         94.2         6649.0         6469.0         6747765.2         417762.3         656.84S         3022.43E         4.8         1398.0           7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417772.5         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8<											
7675         42.1         92.3         6667.7         6487.7         6747764.9         417767.3         657.77S         3039.07E         5.5         1403.2           7700         42.8         90.6         6686.1         6506.1         6747764.7         417772.5         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2<											
7700         42.8         90.6         6686.1         6506.1         6747764.7         417772.5         658.19S         3055.93E         5.2         1408.0           7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7<											
7725         43.3         89.4         6704.4         6524.4         6747764.7         417777.7         658.18S         3072.99E         4.0         1412.4           7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2<											
7750         43.9         88.2         6722.5         6542.5         6747764.9         417782.9         657.82S         3090.21E         3.9         1416.5           7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8<											
7775         44.6         86.7         6740.4         6560.4         6747765.1         417788.2         657.04S         3107.62E         5.1         1420.3           7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4<											
7800         45.4         85.5         6758.1         6578.1         6747765.5         417793.6         655.84S         3125.25E         4.7         1423.7           7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4         6858.0         6678.0         6747769.2         417827.5         643.65S         3236.44E         3.1         1440.7											
7825         46.3         84.8         6775.6         6595.6         6747765.9         417799.0         654.32S         3143.12E         4.3         1426.8           7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4         6858.0         6678.0         6747769.2         417827.5         643.65S         3236.44E         3.1         1440.7											
7850         47.3         84.2         6792.7         6612.7         6747766.5         417804.6         652.58S         3161.26E         4.3         1429.8           7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4         6858.0         6678.0         6747769.2         417827.5         643.65S         3236.44E         3.1         1440.7											
7875         48.4         83.7         6809.4         6629.4         6747767.0         417810.2         650.62S         3179.68E         4.6         1432.7           7900         49.3         83.2         6825.9         6645.9         6747767.7         417815.9         648.46S         3198.38E         4.1         1435.5           7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4         6858.0         6678.0         6747769.2         417827.5         643.65S         3236.44E         3.1         1440.7											
7900     49.3     83.2     6825.9     6645.9     6747767.7     417815.9     648.46S     3198.38E     4.1     1435.5       7925     50.1     82.8     6842.1     6662.1     6747768.4     417821.7     646.13S     3217.31E     3.5     1438.1       7950     50.9     82.4     6858.0     6678.0     6747769.2     417827.5     643.65S     3236.44E     3.1     1440.7											
7925         50.1         82.8         6842.1         6662.1         6747768.4         417821.7         646.13S         3217.31E         3.5         1438.1           7950         50.9         82.4         6858.0         6678.0         6747769.2         417827.5         643.65S         3236.44E         3.1         1440.7											
7950 50.9 82.4 6858.0 6678.0 6747769.2 417827.5 643.65S 3236.44E 3.1 1440.7											
	7975	51.6		6873.6	6693.6	6747770.0	417833.4	641.01S		3.3	1443.1

Depth	Incl	Azi	TVD	TVDSS	UTM N	UTM E	Rect	Co-ords	DLS	VS
(ft)	۰	٥	(ft)	(ft)	(m)	(m)	(ft)	(ft)	°/100ft	(ft)
8000	52.3	81.7	6889.0	6709.0	6747770.8	417839.3	638.21S	3275.23E	2.8	1445.5
8025	53.1	81.4	6904.2	6724.2	6747771.7	417845.3	635.28S	3294.89E	3.4	1447.7
8050	53.8	81.0	6919.1	6739.1	6747772.7	417851.3	632.20S	3314.73E	3.1	1449.9
8075	54.5	80.8	6933.7	6753.7	6747773.6	417857.4	628.98S	3334.73E	3.2	1451.9
8100	55.2	80.6	6948.1	6768.1	6747774.7	417863.6	625.66S	3354.91E	2.6	1454.0
8125	55.4	80.4	6962.4	6782.4	6747775.7	417869.8	622.25S	3375.17E	1.0	1455.9
8150	55.0	80.3	6976.7	6796.7	6747776.7	417875.9	618.81S	3395.40E	1.7	1457.8
8175	54.9	80.1	6991.0	6811.0	6747777.8	417882.1	615.33S	3415.56E	0.9	1459.7
8200	55.2	79.9	7005.4	6825.3	6747778.9	417888.2	611.77S	3435.73E	1.3	1461.5
8225	55.3	79.7	7019.6	6839.6	6747780.0	417894.4	608.13S	3455.94E	0.9	1463.2
8250	55.4	79.5	7033.8	6853.8	6747781.1	417900.5	604.40S	3476.17E	0.8	1464.8
8275	55.4	79.2	7048.0	6868.0	6747782.3	417906.7	600.60S	3496.40E	1.2	1466.4
8300	55.0	78.9	7062.3	6882.3	6747783.5	417912.8	596.69S	3516.54E	1.8	1467.8
8325	54.6	78.5	7076.7	6896.7	6747784.7	417918.9	592.69S	3536.57E	1.8	1469.1
8350	54.7	78.2	7091.2	6911.2	6747786.0	417925.0	588.57S	3556.55E	1.2	1470.3
8375	54.8	77.9	7105.6	6925.6	6747787.2	417931.1	584.33S	3576.53E	1.1	1471.4
8400	55.2	77.6	7119.9	6939.9	6747788.6	417937.2	579.98S	3596.53E	1.9	1472.4
8425	55.3	77.3	7134.2	6954.2	6747789.9	417943.3	575.51S	3616.59E	1.1	1473.3
8450	55.5	77.0	7148.4	6968.4	6747791.3	417949.4	570.94S	3636.65E	1.1	1474.0
8475	55.3	76.9	7162.6	6982.6	6747792.7	417955.5	566.29S	3656.69E	0.9	1474.7
8500	55.1	76.7	7176.8	6996.8	6747794.2	417961.6	561.60S	3676.67E	1.0	1475.4
8525	54.9	76.8	7191.2	7011.2	6747795.6	417967.7	556.90S	3696.61E	1.0	1476.0
8550	54.6	77.1	7205.6	7011.2	6747797.0	417973.8	552.30S	3716.49E	1.6	1476.7
8575	54.5	77.3	7220.1	7023.0	6747798.4	417979.8	547.80S	3736.35E	0.7	1477.5
8600	54.7	77.3	7234.6	7040.1	6747799.7	417985.9	543.31S	3756.22E	1.1	1477.3
8625	54.9	77.2	7234.0	7054.0	6747801.1	417991.9	538.78S	3776.16E	0.8	1479.1
8650	54.9	77.2	7243.0	7083.4	6747802.5	417998.0	534.24S	3776.16L	0.0	1479.1
8675	54.9	77.3	7277.7	7003.4	6747803.9	418004.1	529.72S	3816.06E	0.1	1480.6
8700	54.6	77.5	7292.2	7112.2	6747805.2	418010.2	525.26S	3835.98E	1.5	1481.5
8725	54.2	77.8	7306.7	7112.2	6747806.6	418016.2	520.90S	3855.83E	1.7	1482.4
8750	54.3	78.0	7321.3	7141.3	6747807.9	418022.3	516.65S	3875.68E	0.7	1483.4
8775	54.7	78.0	7335.9	7155.9		418028.3	512.42S			1484.5
8800	54.5	78.2	7350.3		6747810.4			3915.52E	0.8	1485.6
8825	54.4	78.3	7364.9	7170.3		418040.5	504.07S		0.3	1486.8
8850	54.7	78.3	7379.4	7199.4		418046.5	499.92S		1.0	1487.9
8875	54.8	78.3	7379.4	7213.8	6747814.2	418052.6	495.77S	3975.37E	0.6	1489.1
8900	54.8	78.5	7408.2	7213.0	6747815.5	418058.7	491.65S	3995.38E	0.6	1490.3
8925	54.6	78.6	7408.2	7242.6	6747816.7	418064.8	487.58S	4015.38E	0.0	1490.5
8950	54.3	78.5	7422.0	7257.2	6747818.0	418070.9	483.55S		1.5	1491.3
8975	54.4	78.4	7451.7	7271.7	6747819.2	418070.9		4055.22E	0.7	1492.8
9000		78.2	7466.3	7286.3		418083.0	479.50S 475.38S		1.0	1494.0
	54.6				6747820.4					
9025	54.6	78.1	7480.7	7300.7	6747821.7	418089.1	471.20S		0.5	1496.3
9050	54.4	78.0	7495.3	7315.3	6747823.0	418095.2	466.98S		0.7	1497.4
9075	54.4	77.9	7509.8	7329.8	6747824.3	418101.2	462.72S		0.4	1498.4
9100	54.4	77.5	7524.4	7344.4		418107.3	458.39S		1.0	1499.4
9125	54.4	77.2	7538.9	7358.9	6747827.0	418113.3	453.94S		1.3	1500.2
9150	54.5	76.9	7553.5	7373.5	6747828.4	418119.4	449.37S	4194.39E	1.0	1501.0
9175	54.4	76.6	7568.0	7388.0	6747829.8	418125.4	444.70S	4214.18E	0.9	1501.6
9200	54.5	76.3	7582.6	7402.6	6747831.2	418131.4	439.94\$	4233.95E	1.2	1502.1
9225	54.7	76.1	7597.0	7417.0	6747832.7	418137.5	435.08S		0.9	1502.5
9250	54.4	76.4	7611.5	7431.5	6747834.2	418143.5	430.24S	4273.52E	1.2	1503.0

Depth	Incl	Azi	TVD	TVDSS	UTM N	UTM E	Rect	Co-ords	DLS	VS
(ft)	0	•	(ft)	(ft)	(m)	(m)	(ft)	(ft)	°/100ft	(ft)
9275	54.3	76.6	7626.1	7446.1	6747835.6	418149.5	425.49S	4293.27E	0.8	1503.5
9300	54.4	76.8	7640.7	7460.7	6747837.1	418155.5	420.81S	4313.04E	0.7	1504.1
9325	54.5	77.1	7655.2	7475.2	6747838.5	418161.6	416.22S	4332.85E	1.2	1504.8
9350	54.4	77.4	7669.8	7489.8	6747839.8	418167.6	411.74S	4352.68E	1.0	1505.6
9375	54.6	77.6	7684.3	7504.3	6747841.2	418173.7	407.32S	4372.55E	1.2	1506.4
9400	54.4	77.8	7698.8	7518.8	6747842.5	418179.7	402.97S	4392.44E	1.2	1507.4
9425	54.3	77.7	7713.4	7533.4	6747843.8	418185.8	398.66S	4412.29E	0.3	1508.4
9450	54.7	77.5	7727.9	7547.9	6747845.2	418191.8	394.30S	4432.17E	1.4	1509.3
9475	54.9	77.6	7742.3	7562.3	6747846.5	418197.9	389.90S	4452.11E	1.1	1510.2
9500	54.5	77.8	7756.7	7576.7	6747847.8	418204.0	385.56S	4472.06E	1.7	1511.2
9525	54.3	77.7	7771.3	7591.3	6747849.1	418210.0	381.25S	4491.92E	1.1	1512.2
9550	54.4	77.7	7785.9	7605.9	6747850.4	418216.1	376.91S	4511.77E	0.5	1513.1
9575	54.6	77.6	7800.4	7620.4	6747851.8	418222.1	372.55S	4531.65E	1.1	1514.0
9600	54.2	77.5	7814.9	7634.9	6747853.1	418228.2	368.16S	4551.50E	1.9	1514.9
9625	54.0	77.3	7829.6	7649.6	6747854.5	418234.2	363.75S	4571.25E	1.2	1515.8
9650	54.3	77.0	7844.3	7664.3	6747855.8	418240.2	359.25S	4591.00E	1.7	1516.5
9675	54.4	76.7	7858.8	7678.8	6747857.2	418246.2	354.62S	4610.78E	1.3	1517.2
9700	54.2	76.5	7873.4	7693.4	6747858.7	418252.3	349.90S	4630.53E	1.3	1517.8
9725	54.3	76.3	7888.0	7708.0	6747860.1	418258.3	345.13S	4650.24E	0.8	1518.2
9750	54.6	75.9	7902.6	7722.6	6747861.6	418264.3	340.24S	4669.98E	1.7	1518.6
9832	54.1	76.4	7950.4	7770.4	6747866.5	418284.0	324.31S	4734.66E	8.0	1520.0
9927	54.5	76.7	8005.8	7825.8	6747871.9	418306.9	306.39S	4809.72E	0.5	1522.1
10019	54.6	76.3	8059.1	7879.1	6747877.3	418329.1	288.89S	4882.61E	0.4	1524.1
10110	54.1	76.2	8112.2	7932.2	6747882.6	418351.0	271.31S	4954.45E	0.6	1525.7
10202	54.5	75.9	8165.8	7985.8	6747888.1	418373.1	253.33S	5026.97E	0.5	1527.1
10294	54.4	76.6	8219.3	8039.3	6747893.5	418395.2	235.54S	5099.69E	0.6	1528.7
10387	53.5	81.1	8274.1	8094.1	6747898.0	418417.7	220.96S	5173.41E	4.1	1533.7
10482	52.7	85.8	8331.1	8151.1	6747900.6	418440.7	212.25S	5248.84E	4.0	1544.8
10578	52.0	91.0	8389.8	8209.8	6747901.3	418463.8	210.07S	5324.80E	4.4	1562.4
10670	52.5	95.2	8446.1	8266.1	6747900.1	418485.9	213.98S	5397.42E	3.6	1584.9
10761	52.3	99.7	8501.6	8321.6	6747897.3	418507.7	223.28S	5468.90E	4.0	1612.4
10855	52.1	104.3	8559.2	8379.2	6747892.6	418529.8	238.73S	5541.52E	3.9	1646.2
10945	52.3	108.4	8614.4	8434.4	6747886.4	418550.6	258.78S	5609.70E	3.6	1683.2
11037	52.3	113.0	8670.7	8490.7	6747878.6	418571.4	284.49S	5677.75E	3.9	1725.6
11129	52.4	117.5	8727.0	8547.0	6747869.2	418591.4	315.51S	5743.61E	3.9	1772.6
11220	53.1	121.7	8782.1	8602.1	6747858.3	418610.6	351.29S	5806.56E	3.8	1823.5
11316	54.4	125.7	8838.8	8658.8	6747845.2	418630.2	394.24S	5870.93E	3.6	1881.6
11411	55.3	131.2	8893.6	8713.6	6747830.5	418648.8	442.46S	5931.74E	4.8	1943.9
11504	55.7	135.4	8946.3	8766.3	6747814.5	418665.7	495.01S	5987.51E	3.8	2009.1
11596	57.1	139.8	8997.2	8817.2	6747797.2	418681.5	551.60S	6039.14E	4.2	2077.2
11689	58.6	143.7	9046.7	8866.7	6747778.4	418696.3	613.40S	6087.86E	3.9	2149.5
11784	61.0	147.4	9094.5	8914.5	6747757.8	418710.5	681.08S	6134.28E	4.2	2226.8
11880	62.2	151.8	9140.2	8960.2	6747735.6	418723.5	753.87S	6176.99E	4.2	2308.2
11975		156.2	9182.8	9002.8	6747712.3			6214.20E	4.8	2391.5
12070		160.0	9222.2	9042.2	6747687.9	418744.6	910.37S	6246.45E	4.2	2477.4
12163		163.3	9257.9	9077.9		418752.9			3.9	2563.1
12255		165.4	9292.2	9112.2	6747638.0		1074.09S		2.2	2648.4
12348		167.7	9329.8	9149.8	6747612.8		1156.76S	6316.25E	4.4	2733.4
12443		168.3	9373.3	9193.3	6747587.7		1239.35S	6333.85E	3.4	2817.7
12539		167.0	9418.1	9238.1	6747562.4		1322.27S		2.4	2902.5
12630	62.7	166.1	9459.6	9279.6	6747538.4	418782.5	1401.08S	6370.84E	1.0	2983.5

Depth	Incl	Azi	TVD	TVDSS	UTM N	UTM E	Rect	Co-ords	DLS	VS
(ft)	0	0	(ft)	(ft)	(m)	(m)	(ft)	(ft)	°/100ft	(ft)
12722	63.1	166.1	9501.5	9321.5	6747514.2	418788.5	1480.57S	6390.52E	0.4	3065.4
12816	60.8	165.3	9545.7	9365.7	6747489.7	418794.8	1560.94S	6411.05E	2.5	3148.4
12912	60.8	165.3	9592.5	9412.5	6747465.0	418801.3	1642.01S	6432.32E	0.1	3232.2
13006	61.3	164.5	9638.0	9458.0	6747440.8	418807.8	1721.42S	6453.73E	0.9	3314.4
13097	61.2	164.1	9681.8	9501.8	6747417.4	418814.4	1798.20S	6475.34E	0.5	3394.2
13189	61.1	163.6	9726.2	9546.2	6747393.8	418821.2	1875.57S	6497.80E	0.5	3474.7
13271	61.4	163.7	9765.7	9585.7	6747372.8	418827.4	1944.53S	6518.08E	0.4	3546.6
13315	61.4	163.4	9786.8	9606.8	6747361.5	418830.7	1981.57S	6529.02E	0.4	3585.2

# **APPENDIX B**

# **SAMPLES FOR 3/03 - C71**

# **Unwashed Samples Set A**

Located at HAYS Storage – Aberdeen

7,420 – 12,220ft & 12,230 – 12,315ft (TD)

# Washed / Dried Samples Set B

Located at DTI Core Store – Edinburgh 7,420 – 12,220ft & 12,230 – 12,315ft (TD)

# **ATTACHMENTS**

Composite Log 3/03-C71 (C03RD)