

FINAL SURVEY LISTING

by:

N.E.B. COPY

Baker Hughes INTEQ

for:

APACHE CANADA LTD.

Well:

PARAMOUNT APACHE NOGHA B-23

SRFC. B-23 (171.6mN / 98.9mE)

NOGHA

NORTHWEST TERRITORIES, CANADA

**BAKER
HUGHES**

INTEQ

APACHE CANADA LTD.,B-23
NOGHA UTM 10,
NOGHA,NORTHWEST TERRITORIES,
CANADA

B-23
Wellpath: PARAMOUNT APACHE NOGHA
B-23 (SVY)
Date Printed: 26-Mar-2004



INTEQ

Wellbore

Name	Created	Last Revised	Wellbore Unique Identifier
PARAMOUNT APACHE NOGHA B-23	11-Feb-2004	26-Mar-2004	

Well

Wellhead Local Position	Government ID	Last Revised
SRFC B-23 (171.6mN/98.9mE)		10-Feb-2004

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
B-23	7382187.6710	374463.6770	N66 32 5.6921	W125 49 33.2371	0.00N	0.00E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
NOGHA UTM 10	374463.6770	7382187.6710	NAD27-UTM-10N on NORTH AMERICAN DATUM 1927 datum	True

Field

Name	Easting	Northing	Coord System Name	North Alignment
NOGHA	374463.6770	7382187.6710	NAD27-UTM-10N on NORTH AMERICAN DATUM 1927 datum	True

Created By

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Comments

Final Directional Survey

All data is in Metres unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Datum #2 316.3m above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.00 degrees
Bottom hole distance is 14.82 Metres on azimuth 316.61 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by Baker Hughes Incorporated



APACHE CANADA LTD.,B-23
NOGHA UTM 10,
NOGHA,NORTHWEST TERRITORIES,
CANADA

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Comments

MD[m]	TVD[m]	North[m]	East[m]	Comment
1476.00	1475.81	10.77N	10.18W	EXTRAPOLATION TO T.D.

Hole Sections

Diameter [mm]	Start MD[m]	Start TVD[m]	Start North[m]	Start East[m]	End MD[m]	End TVD[m]	End North[m]	Start East[m]	Wellbore
311.100	0.00	0.00	0.00N	0.00E	604.00	603.99	0.12S	2.39W	PARAMOUNT APACHE NOGHA B-23
215.900	604.00	603.99	0.12S	2.39W	1476.00	1475.81	10.77N	10.18W	PARAMOUNT APACHE NOGHA B-23

Casings

Name	Top MD[m]	Top TVD[m]	Top North[m]	Top East[m]	Shoe MD[m]	Shoe TVD[m]	Shoe North[m]	Shoe East[m]	Wellbore
244.50 mm Surface casing	0.00	0.00	0.00N	0.00E	604.00	603.99	0.12S	2.39W	PARAMOUNT APACHE NOGHA B-23

Survey Tool Program

Reference	Survey Name	MD[m]	TVD[m]	Survey Tool	Error Model
456083	MWD Feb 2004	1476.00	1475.81	Navi Trak	Standard

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Location: NORTHWEST TERRITORIES, CANADA

Slot: B-23

Field: NOGHA

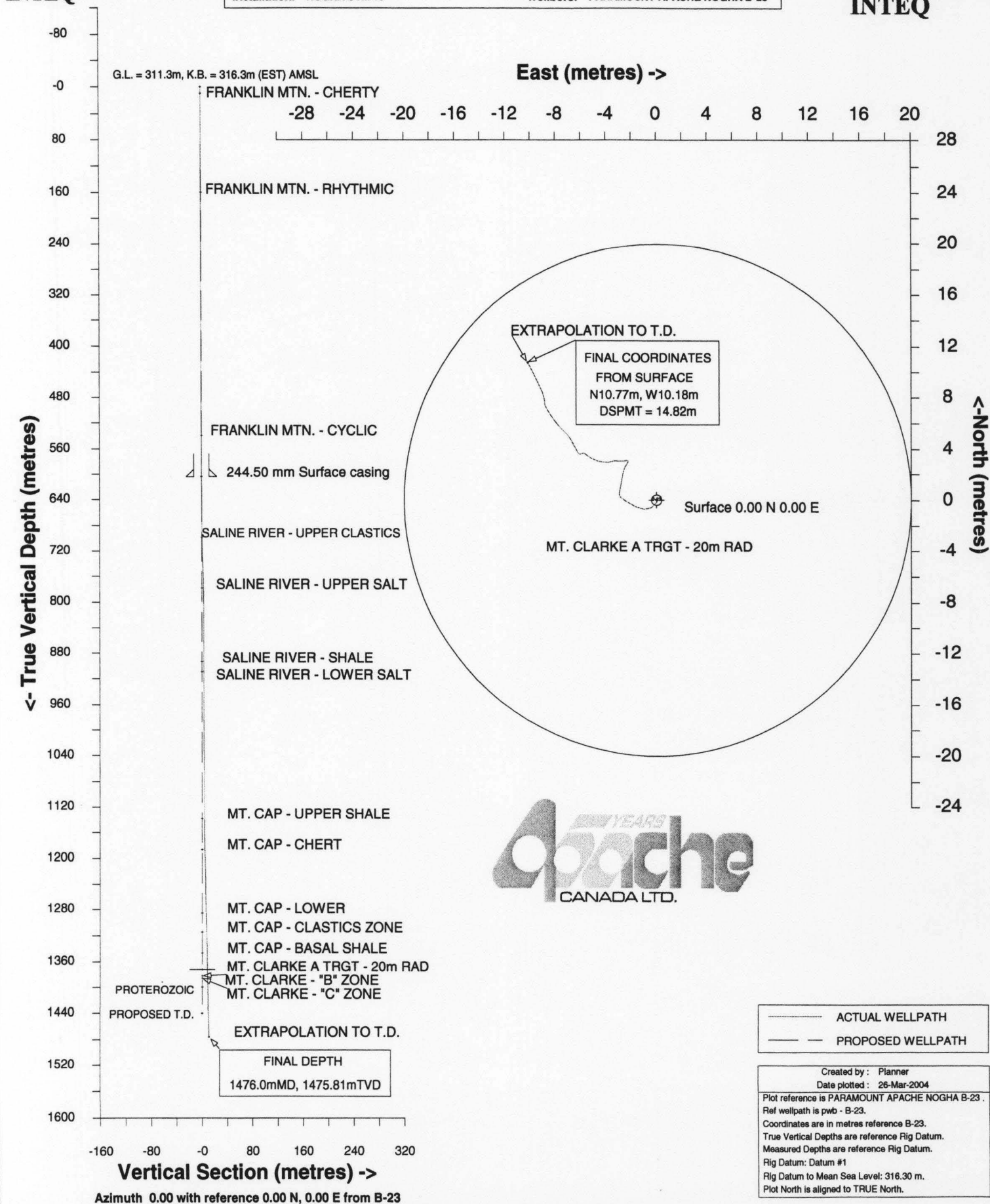
Well: SRFC B-23 (171.6mN/98.9mE)

Installation: NOGHA UTM 10

Wellbore: PARAMOUNT APACHE NOGHA B-23



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NOGHA UTM 10,
NOGHA,NORTHWEST TERRITORIES,
CANADA

B-23
Wellpath: PARAMOUNT APACHE NOGHA
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Wellpath Report

MD[m]	Inc[deg]	Azi[deg]	TVD[m]	North[m]	East[m]	Dogleg [deg/30m]	Vertical Section[m]	Station Comment
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	
60.00	0.00	0.00	60.00	0.00N	0.00E	0.00	0.00	
86.70	0.20	149.40	86.70	0.04S	0.02E	0.22	-0.04	
122.60	0.30	213.20	122.60	0.17S	0.00E	0.23	-0.17	
604.00	0.48	303.10	603.99	0.12S	2.39W	0.04	-0.12	244.50 mm Surface casing
619.34	0.50	304.20	619.33	0.04S	2.50W	0.04	-0.04	
673.80	0.50	309.30	673.79	0.24N	2.88W	0.02	0.24	
715.75	1.20	14.30	715.74	0.78N	2.91W	0.78	0.78	
744.72	2.40	9.70	744.69	1.68N	2.74W	1.25	1.67	
764.02	1.70	17.20	763.98	2.35N	2.58W	1.16	2.35	
783.27	1.30	36.50	783.22	2.79N	2.37W	1.00	2.80	
802.39	0.50	357.40	802.34	3.05N	2.25W	1.51	3.05	
831.42	1.00	249.20	831.37	3.09N	2.49W	1.29	3.09	
841.43	1.00	273.20	841.38	3.06N	2.66W	1.25	3.06	
860.30	1.10	270.10	860.24	3.07N	3.00W	0.18	3.07	
879.51	0.70	271.80	879.45	3.08N	3.30W	0.63	3.08	
908.48	0.60	245.40	908.42	3.02N	3.62W	0.32	3.02	
937.50	0.90	271.50	937.44	2.96N	3.98W	0.46	2.96	
985.66	0.70	289.00	985.59	3.07N	4.64W	0.20	3.07	
1033.93	0.80	296.30	1033.86	3.31N	5.22W	0.09	3.31	
1062.68	1.00	314.30	1062.60	3.58N	5.58W	0.36	3.58	
1091.95	0.60	234.10	1091.87	3.67N	5.89W	1.10	3.67	
1139.77	0.60	328.50	1139.69	3.73N	6.22W	0.55	3.73	
1188.00	1.20	332.40	1187.91	4.39N	6.59W	0.37	4.40	
1197.66	1.40	334.00	1197.57	4.59N	6.69W	0.63	4.59	
1227.00	1.20	315.00	1226.90	5.13N	7.06W	0.48	5.13	
1255.80	1.80	314.40	1255.69	5.66N	7.60W	0.63	5.66	
1284.70	2.10	326.30	1284.58	6.42N	8.21W	0.52	6.42	
1303.39	1.90	325.90	1303.26	6.96N	8.58W	0.32	6.96	
1313.57	1.60	332.80	1313.43	7.23N	8.74W	1.08	7.23	
1332.85	0.20	26.30	1332.71	7.50N	8.85W	2.32	7.50	
1361.73	0.80	353.00	1361.59	7.74N	8.85W	0.67	7.74	
1381.00	1.20	344.40	1380.85	8.07N	8.92W	0.66	8.07	
1409.84	1.70	334.00	1409.68	8.74N	9.19W	0.59	8.74	
1428.25	2.00	336.80	1428.09	9.28N	9.43W	0.51	9.28	
1441.51	2.00	332.70	1441.34	9.70N	9.63W	0.32	9.70	
1476.00	2.00	332.70	1475.81	10.77N	10.18W	0.00	10.77	EXTRAPOLATION TO T.D.

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