

FINAL SURVEY LISTING

N.E.B. COPY

by:

Baker Hughes INTEQ

for:

APACHE CANADA LTD.

Well:

PARAMOUNT APACHE NOGHA K-14

SRFC. K-14 (186.7mS / 173.2mE)

NOGHA

NORTHWEST TERRITORIES, CANADA

**BAKER
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APACHE CANADA LTD.,K-14
NOGHA UTM 9,
NOGHA,NORTHWEST TERRITORIES,
CANADA

Wellbore: PARAMOUNT APACHE NOGHA
K-14
Wellpath: svy - K-14
Date Printed: 29-Mar-2004



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Wellbore

Name	Created	Last Revised	Wellbore Unique Identifier
PARAMOUNT APACHE NOGHA K-14	2-Mar-2004	29-Mar-2004	

Well

Wellhead Local Position	Government ID	Last Revised
SRFC K-14 (186.7mS/173.2mE)		20-Feb-2004

Slot

Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
K-14	7385330.4900	630874.4430	N66 33 39.0919	W126 32.8418	0.00N	0.00E

Installation

Name	Easting	Northing	Coord System Name	North Alignment
NOGHA UTM 9	630874.4430	7385330.4900	NAD27-UTM-9N 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 #2 311.9m above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 0.00 degrees
Bottom hole distance is 5.29 Metres on azimuth 103.48 degrees from Wellhead
Calculation method uses Minimum Curvature method
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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	
65.00	0.10	113.20	65.00	0.02S	0.05E	0.04	-0.02	339.00 mm Conductor
68.30	0.10	113.20	68.30	0.02S	0.06E	0.04	-0.02	
97.10	0.20	121.50	97.10	0.06S	0.12E	0.11	-0.06	
122.50	0.10	1.20	122.50	0.06S	0.16E	0.31	-0.06	
149.30	0.30	72.90	149.30	0.02S	0.23E	0.32	-0.02	
176.20	0.20	53.50	176.20	0.03N	0.33E	0.14	0.03	
203.90	0.20	181.50	203.90	0.01N	0.37E	0.39	0.01	
548.00	0.39	54.55	548.00	0.09N	1.30E	0.05	0.09	244.50 mm Surface casing
556.20	0.40	54.00	556.20	0.12N	1.35E	0.05	0.12	
584.10	0.40	49.40	584.10	0.24N	1.50E	0.03	0.24	
613.30	0.30	47.60	613.29	0.36N	1.64E	0.10	0.36	
642.10	0.40	15.90	642.10	0.51N	1.72E	0.22	0.51	
671.10	0.60	25.30	671.09	0.74N	1.81E	0.22	0.74	
699.70	0.70	35.40	699.69	1.02N	1.98E	0.16	1.02	
727.80	1.00	43.20	727.79	1.34N	2.24E	0.34	1.34	
756.10	1.40	314.10	756.09	1.76N	2.16E	1.81	1.76	
784.70	1.20	346.00	784.68	2.29N	1.84E	0.78	2.29	
813.20	0.80	307.40	813.17	2.70N	1.61E	0.80	2.70	
841.70	0.70	226.60	841.67	2.70N	1.33E	1.03	2.70	
870.20	0.30	250.50	870.17	2.56N	1.13E	0.47	2.56	
899.00	0.10	44.50	898.97	2.55N	1.08E	0.41	2.55	
919.10	0.10	109.00	919.07	2.56N	1.10E	0.16	2.56	
947.70	0.30	313.20	947.67	2.60N	1.07E	0.41	2.60	
974.80	0.30	338.20	974.77	2.72N	1.00E	0.14	2.72	
1003.40	0.60	17.10	1003.37	2.93N	1.01E	0.43	2.93	
1031.30	1.00	38.40	1031.27	3.26N	1.21E	0.53	3.26	
1059.30	0.80	102.80	1059.26	3.41N	1.55E	1.04	3.41	
1087.90	0.40	244.40	1087.86	3.32N	1.65E	1.20	3.32	
1115.20	0.10	112.60	1115.16	3.27N	1.59E	0.52	3.27	
1142.70	0.50	77.30	1142.66	3.29N	1.73E	0.46	3.29	
1170.10	1.80	144.70	1170.06	2.96N	2.09E	1.83	2.96	
1198.60	2.10	158.20	1198.54	2.11N	2.55E	0.58	2.11	
1228.90	2.40	143.00	1228.82	1.09N	3.13E	0.66	1.09	
1255.60	1.70	155.00	1255.50	0.28N	3.64E	0.92	0.28	
1284.30	0.90	181.20	1284.19	0.33S	3.81E	1.02	-0.33	
1312.80	0.60	154.60	1312.69	0.69S	3.87E	0.48	-0.69	
1341.50	0.70	115.30	1341.39	0.90S	4.09E	0.47	-0.90	
1369.50	0.80	101.10	1369.39	1.01S	4.44E	0.23	-1.01	
1390.00	1.40	109.50	1389.88	1.12S	4.82E	0.91	-1.12	
1404.00	1.40	109.50	1403.88	1.23S	5.14E	0.00	-1.23	EXTRAPOLATION TO T.D.

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Comments

MD[m]	TVD[m]	North[m]	East[m]	Comment
1404.00	1403.88	1.23S	5.14E	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
311.000	65.00	65.00	0.02S	0.05E	548.00	548.00	0.09N	1.30E	PARAMOUNT APACHE NOGHA K-14
215.900	548.00	548.00	0.09N	1.30E	1404.00	1403.88	1.23S	5.14E	PARAMOUNT APACHE NOGHA K-14

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
339.00 mm Conductor	0.00	0.00	0.00N	0.00E	65.00	65.00	0.02S	0.05E	PARAMOUNT APACHE NOGHA K-14
244.50 mm Surface casing	0.00	0.00	0.00N	0.00E	548.00	548.00	0.09N	1.30E	PARAMOUNT APACHE NOGHA K-14

Survey Tool Program

Reference	Survey Name	MD[m]	TVD[m]	Survey Tool	Error Model
465115	Navi-Trak	1404.00	1403.88	Navi Trak	Standard

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Location: NORTHWEST TERRITORIES, CANADA

Slot: K-14

Field: NOGHA

Well: SRFC K-14 (186.7mS/173.2mE)

Installation: NOGHA UTM 9

Wellbore: PARAMOUNT APACHE NOGHA K-14

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