



SYSDRILL
Closest Approach + Clearance Factor Summary Report
Wellbore: ALICIA 12-15H-1N (PWB)

Ellipse separations are reported ONLY if BOTH wells have uncertainty data
Only Depth and Magnetic Reference Field error terms are correlated across tie points
Proximities beyond 2500.00ft with expansion rate of 0.00ft/1000ft are not reported
Scan limit is calculated on CENTRE to CENTRE distance

Summary data uses Closest Approach clearance calculation for all minima
Hole size/Casings ARE included
Hole size/Casings are NOT subtracted from Centre-Centre distance
Confidence limit of 95.00% / 2.80 SD.

Wellbore		
Name	Created	Last Revised
ALICIA 12-15H-1N (PWB)	3-Mar-2014	19-Aug-2014

Well		
Name	Government ID	Last Revised
ALICIA 12-15H-1N		19-Aug-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
ALICIA 12-15H-1N	1233694.8679	3154953.1896	39.97355000	-104.94711000	0.00N	0.00E

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
ALICIA	3154953.1896	1233694.8679	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Field				
Name	Easting	Northing	Coord System Name	North Alignment
SPINDLE	3156324.1590	1233718.6871	CO83-NF on NORTH AMERICAN DATUM 1983 datum	Grid

Clearance Summary										
Offset WellName	Offset Wellbore	Offset Slot	Offset Structure	Separation [ft]	MD[ft]	Diverging From[ft]	Ellipse Separation [ft]	Ellipse MD[ft]	Clearance Factor	Clearance MD[ft]
ALICIA 12-15H-5N	ALICIA 12-15H-5N (PWB)	ALICIA 12-15H-5N	ALICIA	15.79	1550.00	13859.65	12.66	1554.99	3.27	13859.65
ALICIA 12-15H-6C	ALICIA 12-15H-6C (PWB)	ALICIA 12-15H-6C	ALICIA	15.79	1500.00	1500.00	12.74	1500.00	3.90	12595.02
ALICIA 12-15H-2N	ALICIA 12-15H-2N (PWB)	ALICIA 12-15H-2N	ALICIA	30.08	1550.00	13859.98	26.95	1554.99	6.58	13862.96
ALICIA 12-15H-4C	ALICIA 12-15H-4C (PWB)	ALICIA 12-15H-4C	ALICIA	45.82	1550.00	12563.40	42.68	1554.99	12.25	12595.02
Ruby #1	Ruby #1 (AWB)	Ruby #1	Offsets	53.54	1550.00	8370.19	48.69	1554.99	10.93	1604.21
ALICIA 12-15H-3N	ALICIA 12-15H-3N (PWB)	ALICIA 12-15H-3N	ALICIA	61.58	1554.99	13858.14	58.44	1554.99	9.90	13862.96
Ruby #2	Ruby #2 (AWB)	Ruby #2	Offsets	73.31	1218.00	9730.38	70.41	1218.00	18.09	9713.00
MALLO #1	MALLO #1 (AWB)	MALLO #1	Offsets	119.50	1550.00	1550.00	115.34	1554.99	28.07	1669.82
W MORRISON N #15-1	W MORRISON #15-1 (AWB)	MORRISON N #15-1	Offsets	495.70	13858.14	13858.14	420.63	13858.14	6.60	13857.63
TUDEX REINHOLT #NC4	TUDEX REINHOLT #NC4	TUDEX REINHOLT #NC4	Offsets	586.03	12102.90	12102.90	544.42	12102.90	14.08	12101.14

All data is in Feet unless otherwise stated
Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5163.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 353.450 degrees
Prepared by Integrated Petroleum Technologies, Inc.
Date Printed: 19-Aug-2014



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(AWB)										
W MORRISO N 24-1 #3	W MORRISON 24-1 #3 (AWB)	MORRISO N 24-1 #3	Offsets	788.34	13687.34	13687.34	713.84	13694.10	10.51	13759.72
W MORRISO N 33-1 #4	W MORRISON 33-1 #4 (AWB)	MORRISO N 33-1 #4	Offsets	1116.82	13862.96	13862.96	1062.79	13862.96	20.67	13862.96
DARLOW UNIT #12-16B	DARLOW UNIT #12-16B (AWB)	DARLOW UNIT #12-16B	Offsets	1170.41	1554.99	8419.81	1165.56	1554.99	121.10	9068.12
AFTON 12-16H-1	AFTON 12-16H-1 (PWB)	Slot #1	AFTON	1172.23	7256.85	7256.85	1154.69	7243.78	16.41	12562.21
AFTON 12-16H-1	AFTON 12-16H-1 (REV 1)	Slot #1	AFTON	1232.67	13862.96	13862.96	1132.63	13862.96	12.32	13862.96
PULIS #12-8	PULIS #12-8 (AWB)	PULIS #12-8	Offsets	1297.99	1554.99	1554.99	1293.82	1554.99	170.73	5278.75
AFTON 12-16H-2	AFTON 12-16H-2 (PWB)	Slot #2	AFTON	1357.32	7517.42	7517.42	1294.26	12562.21	17.73	12562.21
AFTON 12-16H-8	AFTON 12-16H-8 (PWB)	Slot #8	AFTON	1359.19	1915.89	1915.89	1355.30	1932.29	19.42	12595.02
AFTON 12-16H-7	AFTON 12-16H-7 (PWB)	Slot #7	AFTON	1378.93	1915.89	1915.89	1375.05	1915.89	20.57	12595.02
W MORRISO N #11-1	W MORRISON #11-1 (AWB)	MORRISO N #11-1	Offsets	1390.18	13862.96	13862.96	1330.66	13862.96	23.36	13862.96
AFTON #12-16H-3	AFTON #12-16H-3 (PWB)	Slot #3	AFTON	1401.27	1653.42	12549.82	1397.92	1669.82	24.09	12677.04
AFTON 12-16H-6	AFTON 12-16H-6 (PWB)	Slot #6	AFTON	1403.88	1398.00	1398.00	1400.93	1243.31	30.54	12841.08
AFTON #12-16H-4	AFTON #12-16H-4 Original	Slot #4	AFTON	1405.33	1472.97	8358.03	1399.12	1505.78	53.11	9379.80
AFTON #12-16H-4	AFTON #12-16H-4 Sidetrack	Slot #4	AFTON	1405.33	1472.97	12359.42	1399.12	1505.78	14.49	12447.38
BELLINGER R #12-7	BELLINGER #12-7 (AWB)	BELLINGER R #12-7	Offsets	1411.02	1550.00	1550.00	1406.84	1554.99	195.21	5245.94
AFTON #12-16H-4	AFTON #12-16H-4 (PWB)	Slot #4	AFTON	1419.00	1259.72	1259.72	1416.03	1243.31	26.39	12726.25
AFTON #12-16H-4	AFTON #12-16H-4 Ensign Plan	Slot #4	AFTON	1419.10	1554.99	1554.99	1415.96	1554.99	26.69	12726.25
AFTON 12-16H-5	AFTON 12-16H-5	Slot #5	AFTON	1419.85	1347.00	1347.00	1416.90	1243.31	32.35	12890.30

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	(PWB)									
BARKER #12-9	BARKER #12-9 (AWB)	BARKER #12-9	Offsets	1609.16	9707.88	9707.88	1587.58	9713.00	71.43	10085.18
W MORRISON #16-1	W MORRISON #16-1 (AWB)	MORRISON #16-1	Offsets	1698.43	13518.64	13518.64	1626.27	13530.06	23.41	13661.29
DARLOW #12-2	DARLOW #12-2 (AWB)	DARLOW #12-2	Offsets	1726.92	1550.00	1550.00	1722.78	1554.99	248.37	5245.94
ELMS #2	ELMS #2 (AWB)	ELMS #2	Offsets	1736.93	11315.49	11315.49	1702.07	11315.49	48.74	11594.36
W MORRISON #9-1	W MORRISON #9-1 (AWB)	MORRISON #9-1	Offsets	2106.24	13862.96	13862.96	2034.39	13862.96	29.31	13862.96
TUDEX BRINK #S-2	TUDEX BRINK #S-2 (AWB)	TUDEX BRINK #S-2	Offsets	2411.17	1554.99	1554.99	2407.98	1554.99	526.75	2413.00