



SYSDRILL  
Closest Approach + Clearance Factor Summary Report  
Wellbore: ALICIA 12-15H-3N (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-3N (PWB)	3-Mar-2014	19-Aug-2014

Well		
Name	Government ID	Last Revised
ALICIA 12-15H-3N		19-Aug-2014

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
ALICIA 12-15H-3N	1233720.7161	3155009.0820	39.97362000	-104.94691000	25.85N	55.89E

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-4C	ALICIA 12-15H-4C (PWB)	ALICIA 12-15H-4C	ALICIA	15.75	1608.35	12548.46	12.50	1653.42	3.88	7411.29
Ruby #1	Ruby #1 (AWB)	Ruby #1	Offsets	20.06	1525.00	8355.39	15.25	1538.59	4.15	1554.99
ALICIA 12-15H-2N	ALICIA 12-15H-2N (PWB)	ALICIA 12-15H-2N	ALICIA	31.49	1625.06	13841.70	28.23	1653.42	3.31	13841.70
Ruby #2	Ruby #2 (AWB)	Ruby #2	Offsets	40.12	1218.00	9715.66	37.22	1218.00	13.69	1243.31
ALICIA 12-15H-5N	ALICIA 12-15H-5N (PWB)	ALICIA 12-15H-5N	ALICIA	45.81	1587.80	13841.70	42.61	1604.21	6.62	13841.70
ALICIA 12-15H-1N	ALICIA 12-15H-1N (PWB)	ALICIA 12-15H-1N	ALICIA	61.58	1550.01	13841.70	58.45	1550.01	9.90	13841.70
MALLO #1	MALLO #1 (AWB)	MALLO #1	Offsets	67.71	1525.00	1525.00	63.59	1538.59	16.13	1620.61
ALICIA 12-15H-6C	ALICIA 12-15H-6C (PWB)	ALICIA 12-15H-6C	ALICIA	77.36	1500.00	12562.52	74.31	1500.00	14.98	12660.64
AFTON 12-16H-1	AFTON 12-16H-1 (PWB)	Slot #1	AFTON	264.72	7418.23	7418.23	247.65	7418.23	6.64	12545.81
AFTON 12-16H-1	AFTON 12-16H-1 (REV 1)	Slot #1	AFTON	284.96	13841.70	13841.70	200.29	13841.70	3.37	13841.70

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 3.110 degrees  
Prepared by Integrated Petroleum Technologies, Inc.  
Date Printed: 19-Aug-2014



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AFTON 12-16H-2	AFTON 12-16H-2 (PWB)	Slot #2	AFTON	372.76	8198.70	8198.70	304.67	12545.81	4.95	12545.81
TUDEX REINHOLT #NC4	TUDEX REINHOLT #NC4 (AWB)	TUDEX REINHOLT #NC4	Offsets	404.06	12086.49	12086.49	362.68	12086.49	9.77	12086.49
W MORRISO N #15-1	W MORRISON #15-1 (AWB)	MORRISO N #15-1	Offsets	493.45	13841.70	13841.70	418.62	13841.70	6.59	13841.70
AFTON 12-16H-8	AFTON 12-16H-8 (PWB)	Slot #8	AFTON	504.43	8182.29	8182.29	446.67	12545.81	7.06	12545.81
AFTON 12-16H-7	AFTON 12-16H-7 (PWB)	Slot #7	AFTON	594.70	7502.46	7502.46	544.28	12545.81	8.79	12562.21
BARKER #12-9	BARKER #12-9 (AWB)	BARKER #12-9	Offsets	617.79	9692.44	9692.44	596.47	9692.44	27.90	9839.12
W MORRISO N #16-1	W MORRISON #16-1 (AWB)	MORRISO N #16-1	Offsets	709.11	13503.28	13503.28	637.15	13513.66	9.81	13562.87
ELMS #2	ELMS #2 (AWB)	ELMS #2	Offsets	746.42	11299.09	11299.09	711.79	11313.00	21.15	11413.00
DARLOW UNIT #12-16B	DARLOW UNIT #12-16B (AWB)	DARLOW UNIT #12-16B	Offsets	780.45	8404.41	8404.41	766.54	8404.41	54.81	8658.01
AFTON #12-16H-3	AFTON #12-16H-3 (PWB)	Slot #3	AFTON	855.39	8100.27	12534.37	800.76	12545.81	11.36	12595.02
AFTON #12-16H-4	AFTON #12-16H-4 Sidetrack	Slot #4	AFTON	1029.94	9107.94	12343.90	894.96	12348.96	7.53	12381.77
AFTON #12-16H-4	AFTON #12-16H-4 (PWB)	Slot #4	AFTON	1039.41	7870.61	7870.61	987.01	12545.81	13.96	12627.83
AFTON #12-16H-4	AFTON #12-16H-4 Original	Slot #4	AFTON	1040.72	8058.33	8058.33	1008.91	8049.58	28.46	9150.14
AFTON #12-16H-4	AFTON #12-16H-4 Ensign Plan	Slot #4	AFTON	1044.39	7969.04	7969.04	1010.69	12545.81	14.21	12627.83
W MORRISO N 33-1 #4	W MORRISON 33-1 #4 (AWB)	MORRISO N 33-1 #4	Offsets	1120.88	13841.70	13841.70	1069.19	13841.70	21.68	13841.70
PULIS #12-8	PULIS #12-8 (AWB)	PULIS #12-8	Offsets	1151.61	5049.09	5049.09	1141.02	5163.92	105.59	5344.36
W MORRISO N #9-1	W MORRISON #9-1 (AWB)	MORRISO N #9-1	Offsets	1324.19	13841.70	13841.70	1267.60	13841.70	23.40	13841.70
AFTON 12-16H-6	AFTON 12-16H-6 (PWB)	Slot #6	AFTON	1347.33	1398.00	1398.00	1314.65	12545.81	17.94	12693.45

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AFTON 12-16H-5	AFTON 12-16H-5 (PWB)	Slot #5	AFTON	1363.31	1347.00	1347.00	1360.36	1243.31	19.90	12742.66
BELLINGER #12-7	BELLINGER #12-7 (AWB)	BELLINGER #12-7	Offsets	1383.97	1525.00	1525.00	1379.82	1525.00	197.70	5229.54
DARLOW #12-2	DARLOW #12-2 (AWB)	DARLOW #12-2	Offsets	1673.78	1525.00	1525.00	1669.67	1538.59	197.49	5327.96
W MORRISON N 24-1 #3	W MORRISON 24-1 #3 (AWB)	MORRISON N 24-1 #3	Offsets	1777.58	13673.31	13673.31	1703.35	13694.10	23.75	13841.70
W MORRISON N #11-1	W MORRISON #11-1 (AWB)	MORRISON N #11-1	Offsets	2158.90	13841.70	13841.70	2087.32	13841.70	30.16	13841.70
TUDEX BRINK #S-2	TUDEX BRINK #S-2 (AWB)	TUDEX BRINK #S-2	Offsets	2371.47	1525.00	4823.00	2368.32	1538.59	256.05	5147.51