

VERDAD RESOURCES

WATTENBERG FIELD

9N-59W-01 TIMBRO 0101 PAD

TIMBRO 0112-06H

Plan A

Design #1

Anticollision Summary Report

18 January, 2023

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well TIMBRO 0112-06H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4959.00usft (RIG)
Reference Site:	9N-59W-01 TIMBRO 0101 PAD	MD Reference:	RKB = 20' @ 4959.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	TIMBRO 0112-06H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference	Design #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 1,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Added to Error Values

Survey Tool Program	Date	1/18/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
20.00	1,598.00	SLB MWD Surface Surveys (Plan A)	ISCWSA MWD	Fixed:v2:standard declination
1,598.00	16,587.35	Design #1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
10N-58W-30 Offsets Incomplete						
RAZOR FEDERAL 30L-1902 - FUNDARE PR Well - Actua						Out of range
RAZOR FEDERAL 30L-3101 - FUNDARE PR Well - Actua						Out of range
10N-59W-36 Offsets						
STATE #1 - US GOLD P&A Well - No Surveys						Out of range
TERRACE 36-11H - FUNDARE Original Wellbore - Actua						Out of range
TERRACE 36-11H - FUNDARE PR Sidetrack - Actual En						Out of range
TERRACE 36-32M - FUNDARE P&A Well - No Surveys						Out of range
WOLF 36-3624H - FUNDARE SI Well - Actual Ensign Su						Out of range
9N-58W-05 Offsets Incomplete						
HESTON LD06-620 - NBL Original Well (Grid to True) - A						Out of range
HESTON LD06-620 - NBL SI Sidetrack Well (Grid to True)						Out of range
HESTON LD06-625 - NBL PR Well - Actual Sperry Surve						Out of range
HESTON LD06-630 - NBL PR Well - Actual Sperry Surve						Out of range
NUGENT LD06-655 - NBL PR Well - Actual SLB Surveys						Out of range
NUGENT LD06-665 - NBL PR Well - Actual SLB Surveys						Out of range
REAGAN LD06-675 - NBL PR Well - Actual BKR Survey						Out of range
REAGAN LD06-685 - NBL PR Well - Actual Gyrodata & S						Out of range
Timbro LD06-64HN - Noble PR Well - Actual DDC Surve						Out of range
9N-58W-07 Offsets Incomplete						
STRIPES FEDERAL LD18-785 - NBL PR Well - Actual B						Out of range
TIMBRO FEDERAL LD 07-78HN - NBL SI Well - Actual D						Out of range
9N-59W-01 Offsets						
BUCHER #1 - Todd Gross P&A Well - No Surveys						Out of range
TIMBRO RANCH 1-41-9-59 - VERDAD Pilot Hole - Actua	6,463.18	6,013.30	1,232.33	1,163.98	18.028	CC
TIMBRO RANCH 1-41-9-59 - VERDAD Pilot Hole - Actua	6,469.40	6,013.34	1,232.35	1,163.96	18.019	ES
TIMBRO RANCH 1-41-9-59 - VERDAD Pilot Hole - Actua	6,700.00	6,013.76	1,254.92	1,184.55	17.834	SF
TIMBRO RANCH 1-41-9-59 - VERDAD PR Well - Actual	10,227.91	9,496.00	984.75	793.00	5.136	CC
TIMBRO RANCH 1-41-9-59 - VERDAD PR Well - Actual	10,600.00	9,780.00	1,004.48	777.26	4.421	ES, SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	TIMBRO 0112-06H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
9N-59W-01 TIMBRO 0101 PAD						
TIMBRO 0112-01H - Plan A - Actual SLB Surveys	206.70	207.12	79.54	71.94	10.472	CC, ES
TIMBRO 0112-01H - Plan A - Actual SLB Surveys	227.00	227.27	79.59	71.98	10.458	SF
TIMBRO 0112-01H - Plan A - Design #1	206.70	207.12	79.54	71.94	10.472	CC, ES
TIMBRO 0112-01H - Plan A - Design #1	227.00	227.27	79.59	71.98	10.458	SF
TIMBRO 0112-02H - Plan A - Actual SLB Surveys	20.00	20.00	63.98			
TIMBRO 0112-02H - Plan A - Actual SLB Surveys	197.00	196.84	64.50	56.91	8.497	SF
TIMBRO 0112-02H - Plan A - Design #1	20.00	20.00	63.98			
TIMBRO 0112-02H - Plan A - Design #1	197.00	196.84	64.50	56.91	8.497	SF
TIMBRO 0112-03H - Plan A - Actual SLB Surveys	20.00	20.00	47.92			
TIMBRO 0112-03H - Plan A - Design #1	20.00	20.00	47.92			
TIMBRO 0112-04H - Plan A - Actual SLB Surveys	20.00	20.00	32.40			
TIMBRO 0112-04H - Plan A - Actual SLB Surveys	197.00	197.05	32.56	24.97	4.291	SF
TIMBRO 0112-04H - Plan A - Design #1	20.00	20.00	32.40			
TIMBRO 0112-04H - Plan A - Design #1	16,587.97	16,679.46	1,249.46	760.80	2.557	SF
TIMBRO 0112-05H - Plan A - Actual SLB Surveys	600.54	600.59	14.24	6.07	1.743	CC
TIMBRO 0112-05H - Plan A - Actual SLB Surveys	615.00	615.02	14.27	6.07	1.740	ES, SF
TIMBRO 0112-05H - Plan A - Design #1	600.54	600.59	14.24	6.07	1.743	CC
TIMBRO 0112-05H - Plan A - Design #1	615.00	615.02	14.27	6.07	1.740	ES
TIMBRO 0112-05H - Plan A - Design #1	16,587.35	16,600.35	624.72	135.66	1.277	Level 3, SF
TIMBRO 0112-06H - Plan A - Actual SLB Surveys	1,900.00	1,659.00	240.94	239.03	126.020	CC, ES, SF
TIMBRO 0112-07H - Plan A - Actual SLB Surveys	20.00	20.00	15.78			
TIMBRO 0112-07H - Plan A - Design #1	20.00	20.00	15.78			
TIMBRO 0112-07H - Plan A - Design #1	16,587.97	16,592.58	624.55	135.10	1.276	Level 3, SF
TIMBRO 0112-08H - Plan A - Actual SLB Surveys	259.67	259.31	32.03	24.38	4.189	CC, ES, SF
TIMBRO 0112-08H - Plan A - Design #1	259.67	259.31	32.03	24.38	4.189	CC, ES
TIMBRO 0112-08H - Plan A - Design #1	16,587.97	16,791.75	1,249.67	762.17	2.563	SF
TIMBRO 3625-12H - Plan A - Design #1	420.59	420.55	94.73	86.92	12.125	CC
TIMBRO 3625-12H - Plan A - Design #1	435.00	434.92	94.74	86.91	12.091	ES
TIMBRO 3625-12H - Plan A - Design #1	1,800.00	1,800.80	111.20	99.44	9.461	SF
TIMBRO 3625-13H - Plan A - Design #1	1,420.52	1,419.99	108.36	97.53	10.005	CC
TIMBRO 3625-13H - Plan A - Design #1	1,754.04	1,753.48	108.88	97.01	9.176	ES
TIMBRO 3625-13H - Plan A - Design #1	6,150.00	6,096.63	212.04	180.10	6.639	SF
TIMBRO 3625-14H - Plan A - Design #1	439.70	439.69	126.85	118.99	16.139	CC, ES
TIMBRO 3625-14H - Plan A - Design #1	525.00	522.81	127.96	119.95	15.982	SF
TIMBRO 3625-15H - Plan A - Design #1	234.76	233.25	143.60	135.99	18.885	CC, ES
TIMBRO 3625-15H - Plan A - Design #1	286.00	282.04	144.12	136.47	18.845	SF
TIMBRO 3636-09H - Plan A - Design #1	361.62	361.57	46.95	39.21	6.070	CC, ES
TIMBRO 3636-09H - Plan A - Design #1	405.00	404.80	47.10	39.31	6.045	SF
TIMBRO 3636-10H - Plan A - Design #1	372.04	372.01	62.68	54.93	8.091	CC
TIMBRO 3636-10H - Plan A - Design #1	375.00	374.96	62.68	54.93	8.087	ES
TIMBRO 3636-10H - Plan A - Design #1	435.00	434.74	62.86	55.02	8.021	SF
TIMBRO 3636-11H - Plan A - Design #1	401.91	401.88	78.70	70.92	10.109	CC
TIMBRO 3636-11H - Plan A - Design #1	435.00	434.85	78.75	70.91	10.049	ES
TIMBRO 3636-11H - Plan A - Design #1	1,365.00	1,369.70	88.10	77.28	8.145	SF
9N-59W-02 Offsets Incomplete						
HAMLIN 1 - SNYDER P&A Well - No Surveys						Out of range
MCCLEMENT 1 - TEKOil P&A Well - No Surveys						Out of range
WILDHORSE 02-0214H - FUNDARE PR Well - Actual E						Out of range

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Reference Site:	9N-59W-01 TIMBRO 0101 PAD	MD Reference:	RKB = 20' @ 4959.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	TIMBRO 0112-06H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Summary							
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning	
Offset Well - Wellbore - Design							
9N-59W-11 Offsets Incomplete							
Johnny Federal LC11-715 - NBL PR Well - Actual BKR S						Out of range	
Ringo Federal LC23-720 - NBL PR Well - Actual BKR Su						Out of range	
9N-59W-12 Offsets							
BEST #1 - DUNWICK P&A Well - No Surveys						Out of range	
TIMBRO LC12-78HN - NBL PR Well - Actual DDC Surve						Out of range	
9N-59W-13 Offsets							
TIMBRO LC13-72HN - NBL PR Well - Actual DDC Surve	16,587.97	10,382.00	1,218.96	976.78	5.033	CC, ES, SF	
9N-59W-24 Offsets Incomplete							
Timbro LC13-73HN - Noble PR Well - Actual Sperry Surv	16,587.97	10,447.00	910.47	783.23	7.155	CC, ES, SF	
Timbro LC13-74-1HN - Noble PR Well - Actual Sperry Su	16,587.97	10,362.00	872.53	793.01	10.971	CC, ES, SF	
Timbro LC13-74HN - Noble PR Well - Actual Sperry Surv	16,587.97	10,357.00	958.03	780.97	5.411	CC, ES, SF	
Timbro LC13-75-1HN - Noble PR Well - Actual Sperry Su	16,587.97	10,390.00	1,134.91	875.86	4.381	CC, ES, SF	
Timbro LC13-75HN - Noble T/A Well - Actual Ensign Sur	16,587.97	10,388.00	1,409.55	1,120.72	4.880	CC, ES, SF	
Timbro LC13-76-1HN - Noble PR Well - Actual Ensign Su						Out of range	
Timbro LC13-76HN - Noble PR Well - Actual Ensign Surv						Out of range	
Timbro LC13-77-1HN - Noble Original Well - Actual Ensig						Out of range	
Timbro LC13-77-1HN - Noble PR Sidetrack Well - Actual						Out of range	
WINCHESTER FEDERAL LC24-715 - Noble PR Well - A						Out of range	

Anticollision Summary Report

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Reference Site:	9N-59W-01 TIMBRO 0101 PAD	MD Reference:	RKB = 20' @ 4959.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	TIMBRO 0112-06H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 4959.00usft (RIG)

Offset Depths are relative to Offset Datum

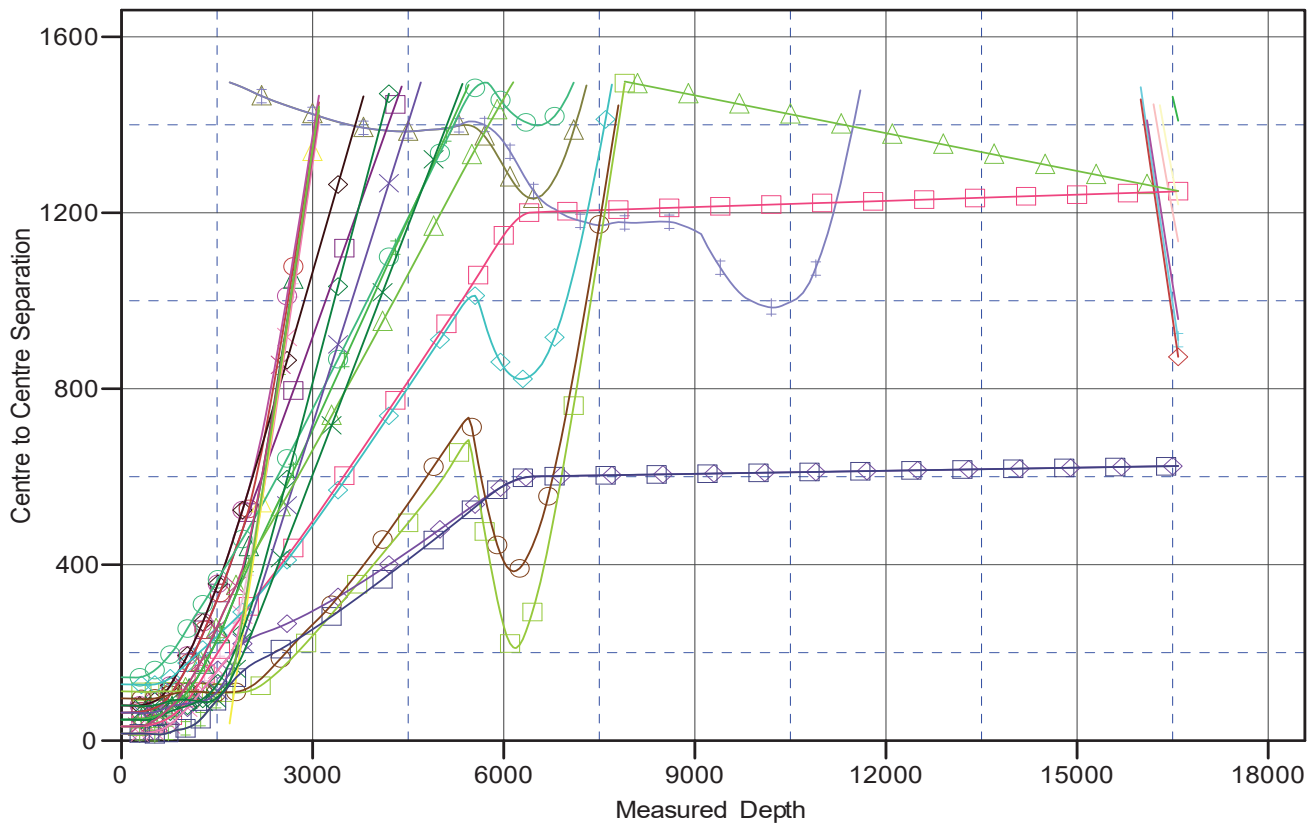
Central Meridian is -105.500000

Coordinates are relative to: TIMBRO 0112-06H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.02°

Ladder Plot



LEGEND

Timbro LC3-75-1HN, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-04H, Plan A, Actual SLB Surveys V0	TIMBRO 0112-03H, Plan A, Actual SLB Surveys V0
Timbro LC3-73HN, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-04H, Plan A, Design#1 V0	TIMBRO 0112-03H, Plan A, Design#1 V0
Timbro LC3-74HN, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-01H, Plan A, Actual SLB Surveys V0	TIMBRO 3085-10H, Plan A, Design#1 V0
Timbro LC3-75HN, Noble T/A Well, Actual Ensign Surveys (Grid to True) V0	TIMBRO 0112-01H, Plan A, Design#1 V0	TIMBRO 0112-09H, Plan A, Actual SLB Surveys V0
Timbro LC3-74-1HN, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 3025-13H, Plan A, Design#1 V0	TIMBRO 3085-09H, Plan A, Design#1 V0
TIMBRO LC3-72HN, NBL PR Well, Actual DDC Surveys V0	TIMBRO 3025-15H, Plan A, Design#1 V0	TIMBRO 0112-08H, Plan A, Design#1 V0
TIMBRO RANCH 1-41-9-59, VERDAD Plot Hole, Actual SDI Surveys V0	TIMBRO 0112-07H, Plan A, Design#1 V0	TIMBRO 0112-08H, Plan A, Actual SLB Surveys V0
TIMBRO RANCH 1-41-9-59, VERDAD PR Well, Actual SDI Surveys V0	TIMBRO 0112-07H, Plan A, Actual SLB Surveys V0	TIMBRO 0112-05H, Plan A, Actual SLB Surveys V0
TIMBRO 0112-02H, Plan A, Design#1 V0	TIMBRO 3025-12H, Plan A, Design#1 V0	TIMBRO 0112-05H, Plan A, Design#1 V0
TIMBRO 0112-02H, Plan A, Actual SLB Surveys V0	TIMBRO 3025-14H, Plan A, Design#1 V0	TIMBRO 3085-11H, Plan A, Design#1 V0

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well TIMBRO 0112-06H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4959.00usft (RIG)
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Reference Well:	TIMBRO 0112-06H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan A	Database:	EDM 5000.16 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 4959.00usft (RIG)

Offset Depths are relative to Offset Datum

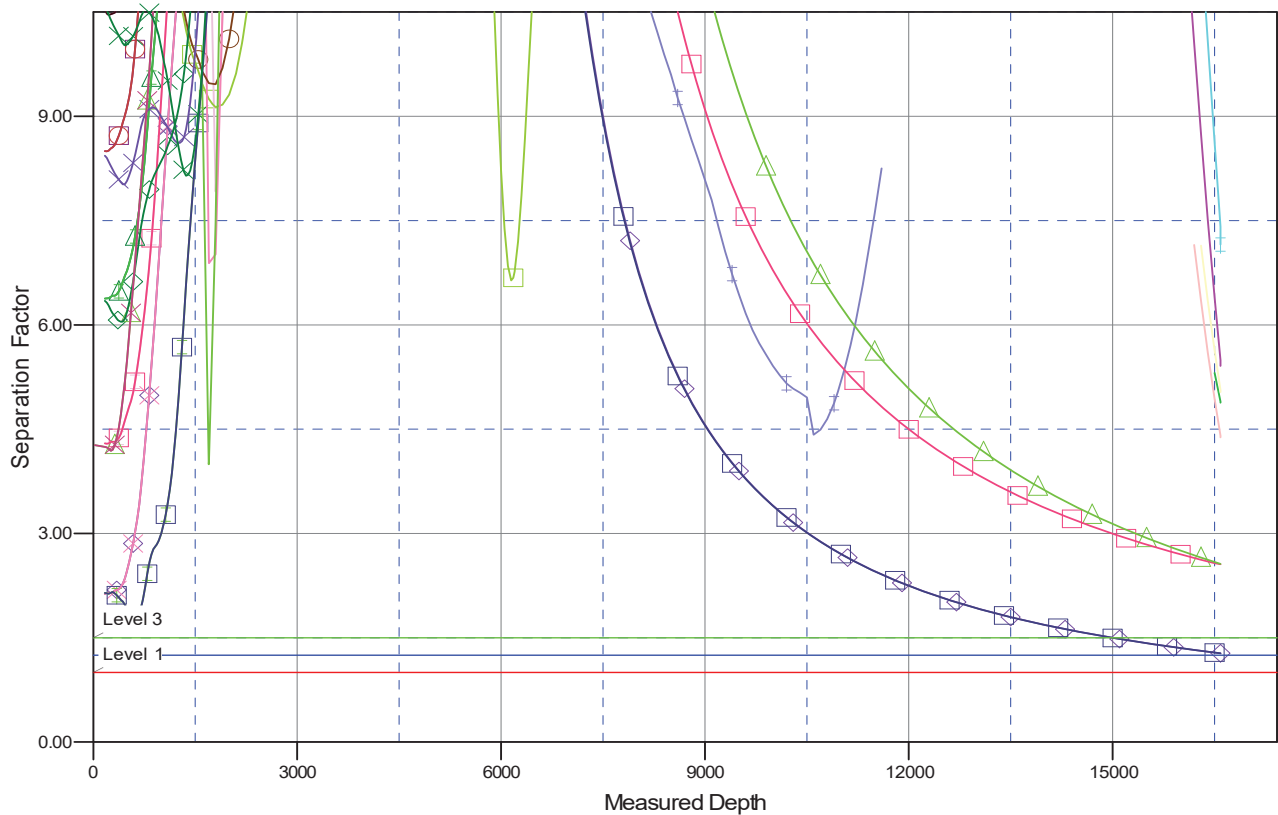
Central Meridian is -105.500000

Coordinates are relative to: TIMBRO 0112-06H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 1.02°

Separation Factor Plot



LEGEND

Timbro LCB-75-11H, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-04H, Plan A, Actual SLB Surveys V0	TIMBRO 0112-03H, Plan A, Actual SLB Surveys V0
Timbro LCB-73H-N, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-04H, Plan A, Design#1 V0	TIMBRO 0112-03H, Plan A, Design#1 V0
Timbro LCB-74H-N, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 0112-01H, Plan A, Actual SLB Surveys V0	TIMBRO 3055-10H, Plan A, Design#1 V0
Timbro LCB-79H, Noble TJA Well, Actual Ensign Surveys (Grid to True) V0	TIMBRO 0112-01H, Plan A, Design#1 V0	TIMBRO 0112-09H, Plan A, Actual SLB Surveys V0
Timbro LCB-74-11H, Noble PR Well, Actual Sperry Surveys (Grid to True) V0	TIMBRO 3055-13H, Plan A, Design#1 V0	TIMBRO 3055-09H, Plan A, Design#1 V0
TIMBRO LC13-72H-N, NBL PR Well, Actual DDC Surveys V0	TIMBRO 3055-15H, Plan A, Design#1 V0	TIMBRO 0112-08H, Plan A, Design#1 V0
TIMBRO RANCH 1-41-9-59, VERDAD Pilot Hole, Actual SDI Surveys V0	TIMBRO 0112-07H, Plan A, Design#1 V0	TIMBRO 0112-08H, Plan A, Actual SLB Surveys V0
TIMBRO RANCH 1-41-9-59, VERDAD PR Well, Actual SDI Surveys V0	TIMBRO 0112-07H, Plan A, Actual SLB Surveys V0	TIMBRO 0112-05H, Plan A, Actual SLB Surveys V0
TIMBRO 0112-02H, Plan A, Design#1 V0	TIMBRO 3055-12H, Plan A, Design#1 V0	TIMBRO 0112-05H, Plan A, Design#1 V0
TIMBRO 0112-02H, Plan A, Actual SLB Surveys V0	TIMBRO 3055-14H, Plan A, Design#1 V0	TIMBRO 3055-11H, Plan A, Design#1 V0