

VERDAD RESOURCES

WATTENBERG FIELD

1N-65W-22 FAWN 2734 & 2833 PAD

FAWN 2734-12H

Plan A

Design #1

Anticollision Summary Report

30 July, 2022

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well FAWN 2734-12H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 5127.00usft (RIG)
Reference Site:	1N-65W-22 FAWN 2734 & 2833 PAD	MD Reference:	RKB = 20' @ 5127.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	FAWN 2734-12H	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	7/30/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	2,250.00	Design #1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination
2,250.00	17,505.81	Design #1 (Plan A)	ISCWSA MWD	Fixed:v2:standard declination

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
1N-65W-22 FAWN 2734 & 2833 PAD						
FAWN 2734-05H - Plan A - Design #1	303.94	303.94	111.99	104.33	14.621	CC, ES
FAWN 2734-05H - Plan A - Design #1	371.51	370.02	112.25	104.51	14.501	SF
FAWN 2734-06H - Plan A - Design #1	307.11	307.11	95.99	88.33	12.527	CC
FAWN 2734-06H - Plan A - Design #1	371.51	371.12	96.02	88.27	12.400	ES
FAWN 2734-06H - Plan A - Design #1	400.00	398.68	96.41	88.63	12.391	SF
FAWN 2734-07H - Plan A - Design #1	371.51	371.51	79.99	72.25	10.330	CC, ES
FAWN 2734-07H - Plan A - Design #1	400.00	400.00	80.13	72.35	10.295	SF
FAWN 2734-08H - Plan A - Design #1	371.51	371.51	63.99	56.25	8.264	CC, ES
FAWN 2734-08H - Plan A - Design #1	400.00	400.00	64.13	56.35	8.239	SF
FAWN 2734-09H - Plan A - Design #1	371.51	371.51	47.99	40.25	6.197	CC, ES
FAWN 2734-09H - Plan A - Design #1	400.00	400.00	48.13	40.35	6.184	SF
FAWN 2734-10H - Plan A - Design #1	371.51	371.51	32.00	24.26	4.132	CC, ES
FAWN 2734-10H - Plan A - Design #1	17,505.81	17,360.02	1,041.69	553.81	2.135	SF
FAWN 2734-11H - Plan A - Design #1	371.51	371.51	16.00	8.26	2.066	CC, ES
FAWN 2734-11H - Plan A - Design #1	17,505.81	17,428.32	521.37	28.59	1.058	Level 2, SF
FAWN 2734-13H - Plan A - Design #1	302.70	302.70	16.00	8.34	2.089	CC
FAWN 2734-13H - Plan A - Design #1	16,400.00	16,500.00	400.95	-40.53	0.908	Level 1, ES, SF
FAWN 2734-14H - Plan A - Design #1	200.00	200.00	32.00	24.43	4.228	CC, ES
FAWN 2734-14H - Plan A - Design #1	17,506.54	17,763.89	1,042.75	549.27	2.113	SF
FAWN 2833-01H - Plan A - Design #1	200.00	200.00	175.99	168.43	23.253	CC, ES
FAWN 2833-01H - Plan A - Design #1	300.00	294.21	177.62	169.97	23.225	SF
FAWN 2833-02H - Plan A - Design #1	200.00	200.00	159.99	152.43	21.139	CC, ES
FAWN 2833-02H - Plan A - Design #1	300.00	296.39	160.76	153.11	21.013	SF
FAWN 2833-03H - Plan A - Design #1	204.44	204.44	143.99	136.42	19.018	CC, ES
FAWN 2833-03H - Plan A - Design #1	300.00	298.08	144.26	136.61	18.851	SF
FAWN 2833-04H - Plan A - Design #1	300.00	300.00	127.99	120.34	16.720	CC, ES
FAWN 2833-04H - Plan A - Design #1	371.51	368.48	128.82	121.08	16.647	SF

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Reference Well:	FAWN 2734-12H	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						
1N-65W-22 Offsets						
CANAL 22-1-3L - Confluence PR Well - Actual BKR Surv	4,482.74	4,836.44	183.77	117.41	2.769	CC
CANAL 22-1-3L - Confluence PR Well - Actual BKR Surv	4,500.00	4,852.65	183.86	117.24	2.760	ES, SF
CANAL 22-1-4L - Confluence PR Well - Actual BKR Surv	7,312.19	7,609.91	57.15	9.36	1.196	Level 2, CC
CANAL 22-1-4L - Confluence PR Well - Actual BKR Surv	7,350.00	7,615.75	68.46	7.40	1.121	Level 2, ES, SF
CANAL 22-2-2L - Confluence PR Well - Actual BKR Surv	5,638.67	5,971.48	223.03	145.89	2.891	CC
CANAL 22-2-2L - Confluence PR Well - Actual BKR Surv	5,700.00	6,030.86	223.51	145.44	2.863	ES, SF
CANAL 22-3-3L - Confluence PR Well - Actual BKR Surv	7,223.95	7,624.00	327.86	281.38	7.054	CC, ES
CANAL 22-3-3L - Confluence PR Well - Actual BKR Surv	7,350.00	7,624.00	353.25	302.47	6.956	SF
CANAL 22-4-2L - Confluence PR Well - Actual BKR Surv	7,140.20	7,597.68	600.30	555.28	13.334	CC, ES
CANAL 22-4-2L - Confluence PR Well - Actual BKR Surv	7,200.00	7,597.34	603.69	558.10	13.242	SF
DRAKE 01N-65W-22-8N - Verdad PR Well - Actual Ensig	7,158.43	6,972.00	776.77	738.25	20.165	CC, ES
DRAKE 01N-65W-22-8N - Verdad PR Well - Actual Ensig	7,550.00	6,972.00	882.66	834.17	18.204	SF
LONG 22-15-6NCH - Confluence Original Well - Actual B						Out of range
LONG 22-15-6NCH - Confluence PR Sidetrack - Actual B						Out of range
WILLOW 22-14-2L - Confluence PR Well - Actual BKR S	392.29	391.54	1,143.12	1,135.33	146.803	CC
WILLOW 22-14-2L - Confluence PR Well - Actual BKR S	400.00	399.52	1,143.13	1,135.33	146.592	ES
WILLOW 22-14-2L - Confluence PR Well - Actual BKR S	5,500.00	5,628.67	1,494.13	1,462.36	47.026	SF
WILLOW 22-15-3L - Confluence PR Well - Actual Baker	388.84	386.89	1,168.57	1,160.79	150.222	CC, ES
WILLOW 22-15-3L - Confluence PR Well - Actual Baker	3,400.00	3,468.64	1,493.13	1,473.63	76.564	SF
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	315.60	306.61	1,219.53	1,211.85	158.642	CC
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	371.51	361.78	1,219.56	1,211.80	157.216	ES
WILLOW 22-17-2L - Confluence PR Well - Actual BKR S	2,300.00	2,327.92	1,487.84	1,472.58	97.520	SF
WILLOW 22-18-3L - Confluence PR Well - Actual BKR S	0.00	0.00	1,270.30			
WILLOW 22-18-3L - Confluence PR Well - Actual BKR S	100.00	89.79	1,270.30	1,262.77	168.687	ES
WILLOW 22-18-3L - Confluence PR Well - Actual BKR S	1,800.00	1,773.14	1,497.74	1,485.07	118.226	SF
WILLOW 22-20-2L - Confluence PR Well - Actual BKR S	0.00	0.00	1,320.66			
WILLOW 22-20-2L - Confluence PR Well - Actual BKR S	1,400.00	1,299.09	1,497.85	1,487.15	139.976	SF
WILLOW 22-21-3L - Confluence PR Well - Actual BKR S	385.91	383.67	1,344.77	1,336.98	172.776	CC, ES
WILLOW 22-21-3L - Confluence PR Well - Actual BKR S	1,200.00	1,065.95	1,478.13	1,468.29	150.242	SF
WILLOW 22-4-4L - Confluence PR Well - Actual BKR Su	383.29	378.86	1,117.72	1,109.96	143.904	CC, ES
WILLOW 22-4-4L - Confluence PR Well - Actual BKR Su	6,850.00	7,053.96	1,410.81	1,369.79	34.400	SF
WILLOW 22-5-4L - Confluence PR Well - Actual BKR Su	387.53	385.47	1,244.03	1,236.24	159.861	CC, ES
WILLOW 22-5-4L - Confluence PR Well - Actual BKR Su	1,700.00	1,628.28	1,493.94	1,481.72	122.303	SF
1N-65W-27 Offsets						
ROWE 13N-27HZ - VERDAD PR Well - Actual BHI Surv	8,800.00	9,045.61	17.91	-52.56	0.254	Level 1, ES, SF
ROWE 13N-27HZ - VERDAD PR Well - Actual BHI Surv	8,815.91	9,056.53	13.69	-28.45	0.325	Level 1, CC
1N-65W-28 Offsets Incomplete						
*GLEN YOUNG 1 - KPK P&A Well - No Surveys						Out of range
*NECKIEN 1 - RENEGADE T/A Well - No Surveys						Out of range
YOUNG 01N-65W-28-8N - VERDAD PR Well - Actual En						Out of range
1N-65W-33 Offsets Incomplete						
*HSR-CHERRY KNOLLS 9-33 - KMG D/A Well - No Surv						Out of range
BUFORD 33-10-2L - Confluence Drilled Well - Plan Only						Out of range
BUFORD 33-6-2L - Confluence Planned Well - BKR Plan						Out of range
BUFORD 33-6-4L - Confluence Planned Well - Planned B						Out of range
DESHA 4-15-1 - Confluence PR Well - Actual BKR Surve						Out of range

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Reference Well:	FAWN 2734-12H	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						
1N-65W-34 Offsets						
DESHA 4-1-3L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-1-4L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-2-2L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-2-4L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-3-1L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-4-3L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-5-2L - Confluence Planned Well - BKR Planne						Out of range
DESHA 4-6-1L - Confluence Planned Well - BKR Planne						Out of range
JORDAN #34-2 - KPK PR Well - No Surveys						Out of range
JORDAN #34-3 - KPK PR Well - No Surveys						Out of range
JORDAN #34-4 - KPK PR Well - No Surveys	16,216.12	7,274.00	548.94	76.30	1.161	Level 2, CC, ES, SF
JORDAN #34-5 - KPK PR Well - No Surveys	17,157.36	7,247.00	1,178.64	684.96	2.387	CC, ES, SF
JORDAN #34-6 - BERGE D/A Well - No Surveys	16,200.00	7,249.00	786.51	314.80	1.667	ES, SF
JORDAN #34-6 - BERGE D/A Well - No Surveys	16,210.82	7,249.00	786.44	314.80	1.667	CC
JORDAN #34-7 - KPK P&A Well - No Surveys	15,037.47	7,256.00	943.61	499.12	2.123	CC, ES, SF
JORDAN #34-8 - KPK D/A Well - No Surveys	15,077.38	7,270.00	538.41	92.50	1.207	Level 2, CC
JORDAN #34-8 - KPK D/A Well - No Surveys	15,100.00	7,270.00	538.89	91.54	1.205	Level 2, ES, SF
JORDAN #34-9 - BERGE P&A Well - No Surveys						Out of range
JORDAN, IVAR #1 - KPK PR Well - No Surveys	13,892.80	7,253.00	245.36	-172.33	0.587	Level 1, CC
JORDAN, IVAR #1 - KPK PR Well - No Surveys	13,900.00	7,253.00	245.47	-173.07	0.586	Level 1, ES, SF
JORDAN-LOUSTAUNAU #34-10 - KPK D/A Well - No Su						Out of range
JUDY 3-4 - Confluence PR Well - Actual Ensign Surveys						Out of range
JUDY 34-03-07 - Confluence Planned Well - Pro Directio						Out of range
JUDY 34-03-08 - Confluence Planned Well - Pro Directio						Out of range
JUDY 34-03-09 - Confluence Planned Well - Pro Directio						Out of range
1N-65W-35 Offsets Incomplete						
DOUBLE J 35-11-1CDH - Providence Planned Well - BK						Out of range

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Reference Depths are relative to RKB = 20' @ 5127.00usft (RIG)

Offset Depths are relative to Offset Datum

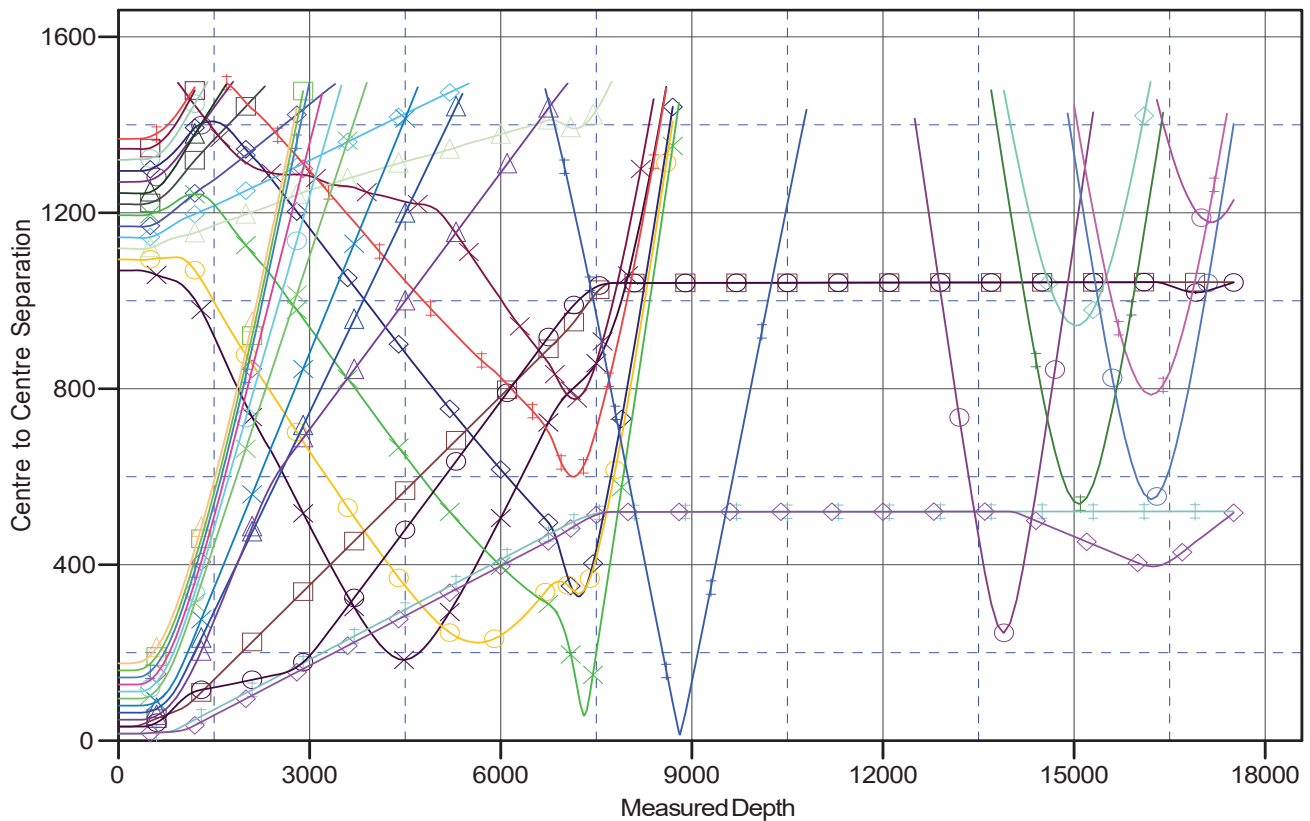
Central Meridian is -105.500000

Coordinates are relative to: FAWN 2734-12H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.55°

Ladder Plot



LEGEND

WILLOW 22-17-2L, Confluence PR Well, Actual BKR Surveys V0	CANAL 22-4-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-13H, Plan A, Design #1 V0
WILLOW 22-18-3L, Confluence PR Well, Actual BKR Surveys V0	WILLOW 22-21-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-07H, Plan A, Design #1 V0
CANAL 22-3-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-01H, Plan A, Design #1 V0	FAWN 2734-09H, Plan A, Design #1 V0
WILLOW 22-14-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-11H, Plan A, Design #1 V0	ROWE 13N-2RHZ, VERDAD PR Well, Actual BKR Surveys V0
CANAL 22-1-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-14H, Plan A, Design #1 V0	JORDAN #347, KP/K PLA Well, No Surveys V0
DRAKE 01N-65W-22-8N, Verdad PR Well, Actual Design Directional Surveys V0	FAWN 2734-10H, Plan A, Design #1 V0	JORDAN, MAR #1, KP/K PR Well, No Surveys V0
WILLOW 22-20-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-03H, Plan A, Design #1 V0	JORDAN #346, BERGE DA Well, No Surveys V0
CANAL 22-2-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-04H, Plan A, Design #1 V0	JORDAN #348, KP/K DA Well, No Surveys V0
WILLOW 22-15-3L, Confluence PR Well, Actual Baker Surveys V0	FAWN 2734-08H, Plan A, Design #1 V0	JORDAN #346, KP/K PR Well, No Surveys V0
CANAL 22-1-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-06H, Plan A, Design #1 V0	JORDAN #344, KP/K PR Well, No Surveys V0
WILLOW 22-4-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-02H, Plan A, Design #1 V0	
WILLOW 22-6-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-05H, Plan A, Design #1 V0	

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Reference Depths are relative to RKB = 20' @ 5127.00usft (RIG)

Offset Depths are relative to Offset Datum

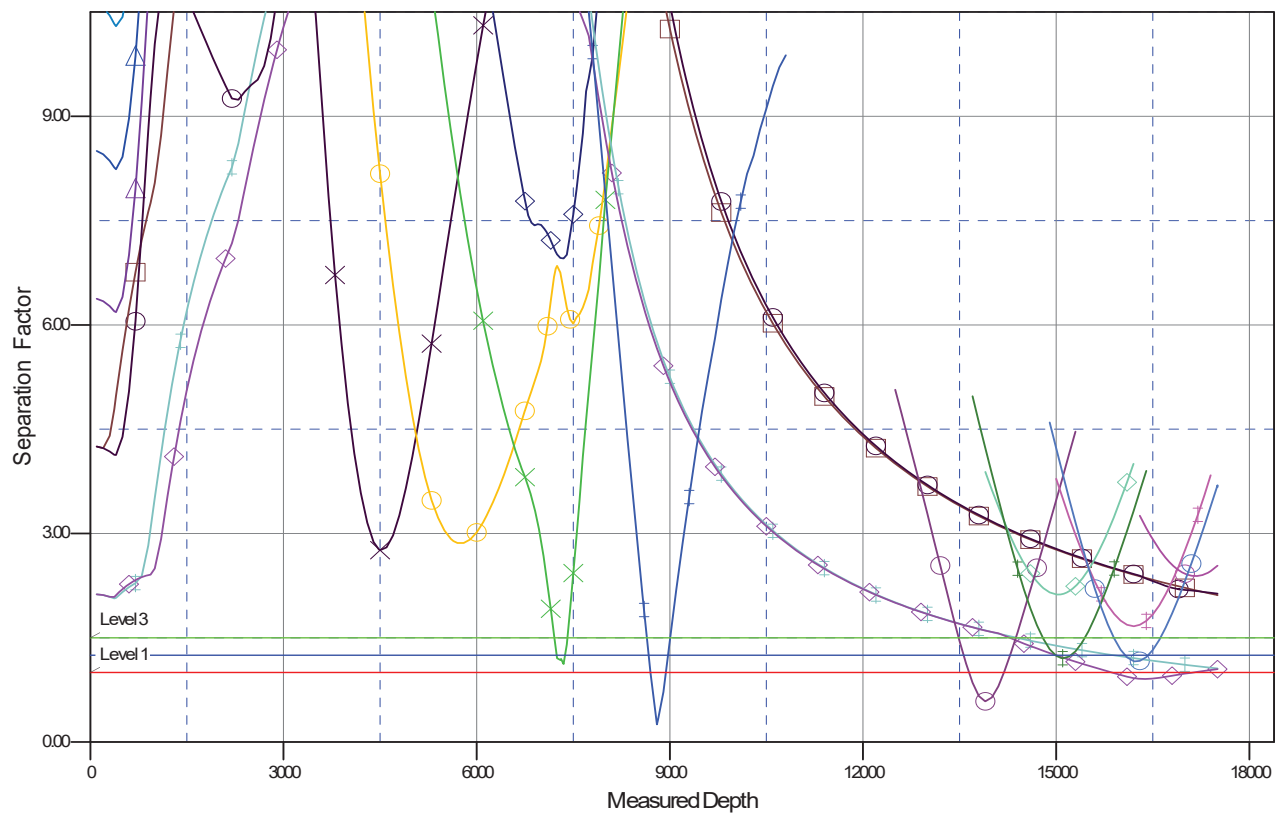
Central Meridian is -105.500000

Coordinates are relative to: FAWN 2734-12H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.55°

Separation Factor Plot



LEGEND

WILLOW 22-17-2L, Confluence PR Well, Actual BKR Surveys V0	CANAL 22-4-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-13H, Plan A, Design #1 V0
WILLOW 22-18-3L, Confluence PR Well, Actual BKR Surveys V0	WILLOW 22-21-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-07H, Plan A, Design #1 V0
CANAL 22-3-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-01H, Plan A, Design #1 V0	FAWN 2734-09H, Plan A, Design #1 V0
WILLOW 22-14-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-11H, Plan A, Design #1 V0	ROWE 13N-2H-2, VERDAD PR Well, Actual BKR Surveys V0
CANAL 22-1-3L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-14H, Plan A, Design #1 V0	JORDAN #34-7, KPK PR Well No Surveys V0
DRAKE 01N-65W-22-8N, Verdad PR Well, Actual Ensign Directional Surveys V0	FAWN 2734-10H, Plan A, Design #1 V0	JORDAN, MAR #1, KPK PR Well No Surveys V0
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CANAL 22-2-2L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-04H, Plan A, Design #1 V0	JORDAN #34-8, KPK DA Well No Surveys V0
WILLOW 22-15-3L, Confluence PR Well, Actual Baker Surveys V0	FAWN 2734-08H, Plan A, Design #1 V0	JORDAN #34-6, KPK PR Well No Surveys V0
CANAL 22-1-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-06H, Plan A, Design #1 V0	JORDAN #34-4, KPK PR Well No Surveys V0
WILLOW 22-4-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2833-02H, Plan A, Design #1 V0	
WILLOW 22-6-4L, Confluence PR Well, Actual BKR Surveys V0	FAWN 2734-05H, Plan A, Design #1 V0	