

VERDAD RESOURCES

WATTENBERG FIELD

9N-58W-34 SPEED GOAT FED PAD

SPEED GOAT FED 3432-03H

Plan C

Permit Rev-1

Anticollision Summary Report

25 January, 2024

Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-03H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
Reference Site:	9N-58W-34 SPEED GOAT FED PAD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3432-03H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan C	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

Reference	Permit Rev-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	1/25/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,474.00	Permit Rev-1 (Plan C)	ISCWSA MWD	Fixed:v2:standard declination
1,474.00	19,237.30	Permit Rev-1 (Plan C)	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						
9N-58W-19 TIMBRO FED 1931 PAD						
TIMBRO FED 1931-08H - Wellbore #1 - Design #4	19,237.98	13,458.78	566.52	347.24	2.584	CC, ES, SF
9N-58W-31 Offsets						
ST JOHNS CATHOLIC CHURCH #41-31 - Ed Davis LLC	19,237.98	5,769.00	1,194.36	612.38	2.052	CC, ES, SF
9N-58W-32 Offsets						
Bringelson 1-32-9-58 - Verdad PR Well - Actual Precision	16,092.89	9,324.41	98.60	-34.98	0.738	Level 1, CC
Bringelson 1-32-9-58 - Verdad PR Well - Actual Precision	16,100.00	9,324.38	98.86	-36.14	0.732	Level 1, ES, SF
Bringelson 2-32-9-58 - Verdad PR Well - Actual Precision	14,871.64	9,272.64	106.35	-15.86	0.870	Level 1, CC, ES, SF
FEDERAL PERRY #13-32 - Diversified D/A Well - No Su						Out of range
9N-58W-33 Offsets						
Bringelson #42-33 - Carrizo D/A Well - No Surveys	9,560.06	5,710.00	450.50	97.02	1.274	Level 3, CC
Bringelson #42-33 - Carrizo D/A Well - No Surveys	9,600.00	5,710.00	452.27	95.73	1.269	Level 3, ES, SF
BRINGELSON 2-33-9-58 - Verdad PR Well - Actual Prec	11,643.18	7,022.65	50.81	-24.29	0.677	Level 1, CC, ES, SF
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	10,999.78	7,086.14	52.44	-18.03	0.744	Level 1, CC
BRINGELSON 3-33-9-58 - Verdad PR Well - Actual Prec	11,000.00	7,086.13	52.44	-18.05	0.744	Level 1, ES, SF
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	12,494.61	6,936.74	66.11	-16.46	0.801	Level 1, CC
BRINGELSON RANCH 33-21-9-58 - Verdad PR Well - A	12,500.00	6,936.97	66.33	-17.74	0.789	Level 1, ES, SF
DENNIS #F - PEC D/A Well - No Surveys	12,193.84	5,656.00	451.57	9.95	1.023	Level 2, CC
DENNIS #F - PEC D/A Well - No Surveys	12,200.00	5,656.00	451.62	9.45	1.021	Level 2, ES, SF

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Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3432-03H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan C	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-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-58W-34 Offsets						
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,676.45	1,656.56	204.77	147.98	3.606	CC, ES
Bringelson Ranch 1-34-41-9-58 - Verdad Original Well - A	1,700.00	1,677.27	205.05	148.14	3.603	SF
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,676.45	1,656.56	204.77	147.98	3.606	CC, ES
Bringelson Ranch 1-34-41-9-58 - Verdad PR Well - Actua	1,700.00	1,677.27	205.05	148.14	3.603	SF
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	0.00	8.99	311.71			
Bringelson Ranch 2-34-9-58 - Verdad PR Well - Actual P	5,800.00	6,813.11	485.06	422.03	7.696	SF
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,089.60	7,008.63	67.12	21.49	1.471	Level 3, CC
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,100.00	7,010.11	67.99	15.50	1.295	Level 3, ES
Bringelson Ranch 3-34-9-58 - Verdad PR Well - Actual P	6,150.00	7,016.75	91.79	20.31	1.284	Level 3, SF
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,670.93	7,178.89	24.63	-12.19	0.669	Level 1, CC
Bringelson Ranch 4-34-9-58 - Verdad PR Well - Actual P	6,700.00	7,183.18	37.85	-33.03	0.534	Level 1, ES, SF
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	8,557.66	7,108.88	126.86	77.84	2.588	CC, ES
Bringelson Ranch 5-34-9-58 - Verdad PR Well - Actual P	8,600.00	7,107.18	133.73	78.82	2.435	SF
Bringelson Ranch 6-34-9-58 - Verdad PR Well - Actual P	8,260.00	6,691.24	26.66	-17.45	0.604	Level 1, CC, ES, SF
BRINGLESON #H - PEC D/A Well - No Surveys	4,085.96	3,862.49	1,467.74	1,305.12	9.025	CC
BRINGLESON #H - PEC D/A Well - No Surveys	4,500.00	4,248.06	1,475.47	1,295.53	8.200	ES
BRINGLESON #H - PEC D/A Well - No Surveys	4,900.00	4,620.55	1,497.41	1,301.02	7.624	SF
LILLI UNIT #14-34 - Noble P&A Well - Partial VES Surve						Out of range
LILLI UNIT #16-34 - Noble P&A Well - Actual VES Surve						Out of range

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Reference Site:	9N-58W-34 SPEED GOAT FED PAD	MD Reference:	RKB = 20' @ 4744.00usft (RIG)
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPEED GOAT FED 3432-03H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Plan C	Database:	EDM 5000.16 Single User Db
Reference Design:	Permit Rev-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-58W-34 SPEED GOAT FED PAD						
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	575.75	575.75	31.70	23.59	3.908	CC, ES
SPEED GOAT FED 3432-01H - Plan C - Permit Rev-1	19,237.98	19,075.54	1,154.93	183.26	1.189	Level 2, SF
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	575.75	575.75	15.67	7.56	1.931	CC
SPEED GOAT FED 3432-02H - Plan C - Permit Rev-1	19,237.98	19,129.70	576.74	-394.28	0.594	Level 1, ES, SF
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	506.84	506.84	16.03	8.06	2.011	CC
SPEED GOAT FED 3432-04H - Plan C - Permit Rev-1	19,237.98	19,418.66	578.20	-391.76	0.596	Level 1, ES, SF
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	500.00	500.00	32.06	24.10	4.029	CC, ES
SPEED GOAT FED 3432-05H - Plan C - Permit Rev-1	19,237.98	19,660.12	1,155.30	185.72	1.192	Level 2, SF
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	416.60	416.60	48.09	40.28	6.157	CC
SPEED GOAT FED 3432-06H - Plan C - Permit Rev-1	500.00	499.80	48.09	40.13	6.044	ES, SF
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	405.73	405.73	64.12	56.33	8.228	CC
SPEED GOAT FED 3432-07H - Plan C - Permit Rev-1	500.00	499.49	64.22	56.27	8.076	ES, SF
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	403.14	403.14	80.15	72.36	10.289	CC, ES
SPEED GOAT FED 3432-08H - Plan C - Permit Rev-1	500.00	498.68	80.56	72.61	10.135	SF
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	400.00	400.00	96.19	88.40	12.356	CC, ES
SPEED GOAT FED 3432-09H - Plan C - Permit Rev-1	500.00	497.63	97.11	89.17	12.223	SF
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	302.32	302.34	112.20	104.55	14.657	CC
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	400.00	399.80	112.32	104.54	14.434	ES
SPEED GOAT FED 3435-10H - Plan C - Permit Rev-1	6,800.00	6,143.77	1,252.17	1,136.99	10.872	SF
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	1,307.13	1,284.35	118.88	108.31	11.252	CC, ES
SPEED GOAT FED 3435-11H - Plan C - Permit Rev-1	6,400.00	6,520.58	660.53	552.39	6.108	SF
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	6,176.64	6,794.69	77.41	-24.50	0.760	Level 1, CC
SPEED GOAT FED 3435-12H - Plan C - Permit Rev-1	6,200.00	6,772.00	77.59	-25.96	0.749	Level 1, ES, SF
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	300.00	300.00	160.31	152.66	20.942	CC, ES
SPEED GOAT FED 3435-13H - Plan C - Permit Rev-1	6,800.00	6,312.63	477.76	360.68	4.080	SF
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	300.00	300.00	176.34	168.68	23.035	CC, ES
SPEED GOAT FED 3435-14H - Plan C - Permit Rev-1	7,200.00	6,150.00	1,012.67	877.55	7.494	SF
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	205.85	205.85	192.01	184.44	25.356	CC
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	300.00	298.90	192.08	184.42	25.098	ES
SPEED GOAT FED 3435-15H - Plan C - Permit Rev-1	7,400.00	6,115.53	1,489.99	1,344.53	10.243	SF
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	204.67	204.67	208.03	200.46	27.475	CC, ES
SPEED GOAT FED 3435-16H - Plan C - Permit Rev-1	1,500.00	1,410.85	300.29	288.68	25.870	SF
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	200.00	200.00	224.07	216.50	29.605	CC, ES
SPEED GOAT FED 3435-17H - Plan C - Permit Rev-1	1,500.00	1,400.00	332.54	320.90	28.572	SF
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	200.00	200.00	240.10	232.53	31.723	CC, ES
SPEED GOAT FED 3435-18H - Plan C - Permit Rev-1	1,900.00	1,737.88	418.26	404.84	31.170	SF

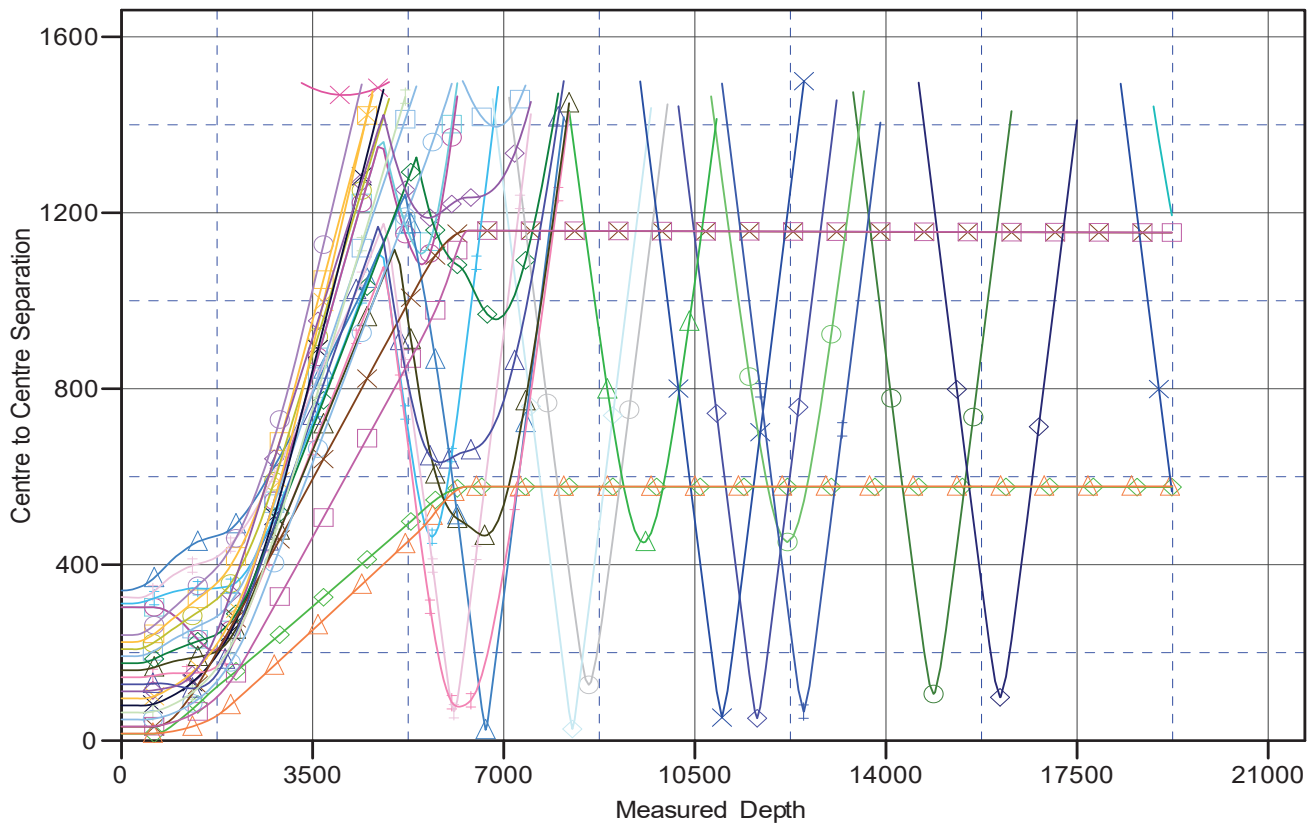
Anticollision Summary Report

Company:	VERDAD RESOURCES	Local Co-ordinate Reference:	Well SPEED GOAT FED 3432-03H
Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
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Well Error:	3.28 usft	Output errors are at	2.45 sigma
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Reference Design:	Permit Rev-1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to RKB = 20' @ 4744.00usft (RIG)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000

Coordinates are relative to: SPEED GOAT FED 3432-03H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 1.07°

Ladder Plot



LEGEND

ST JOHN'S CATHOLIC CHURCH #1-31, Ed Davis LLC D/A Well, No Surveys V0	DENNIS #F PEC D/A Well, No Surveys V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
Bringleton 332-9-58, Verdad PR Well, Actual Precision Surveys V0	BRINGLETON 2-33-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
Bringleton 132-9-58, Verdad PR Well, Actual Precision Surveys V0	Bringleton #62-33, Carrizo D/A Well, No Surveys V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
TIMBRO FED 1931-08H, Wellbore #1, Design #4 V0	BRINGLETON 3-33-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
Bringleton Ranch 2-34-9-58, Verdad PR Well, Actual Precision Surveys V0	BRINGLETON RANCH 33-21-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
Bringleton Ranch 5-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-19H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Bringleton Ranch 6-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Bringleton Ranch 1-34-41-9-58, Verdad Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
Bringleton Ranch 1-34-41-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
BRINGLETON #H, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0
Bringleton Ranch 4-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0	
Bringleton Ranch 3-34-9-58, Verdad PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0	

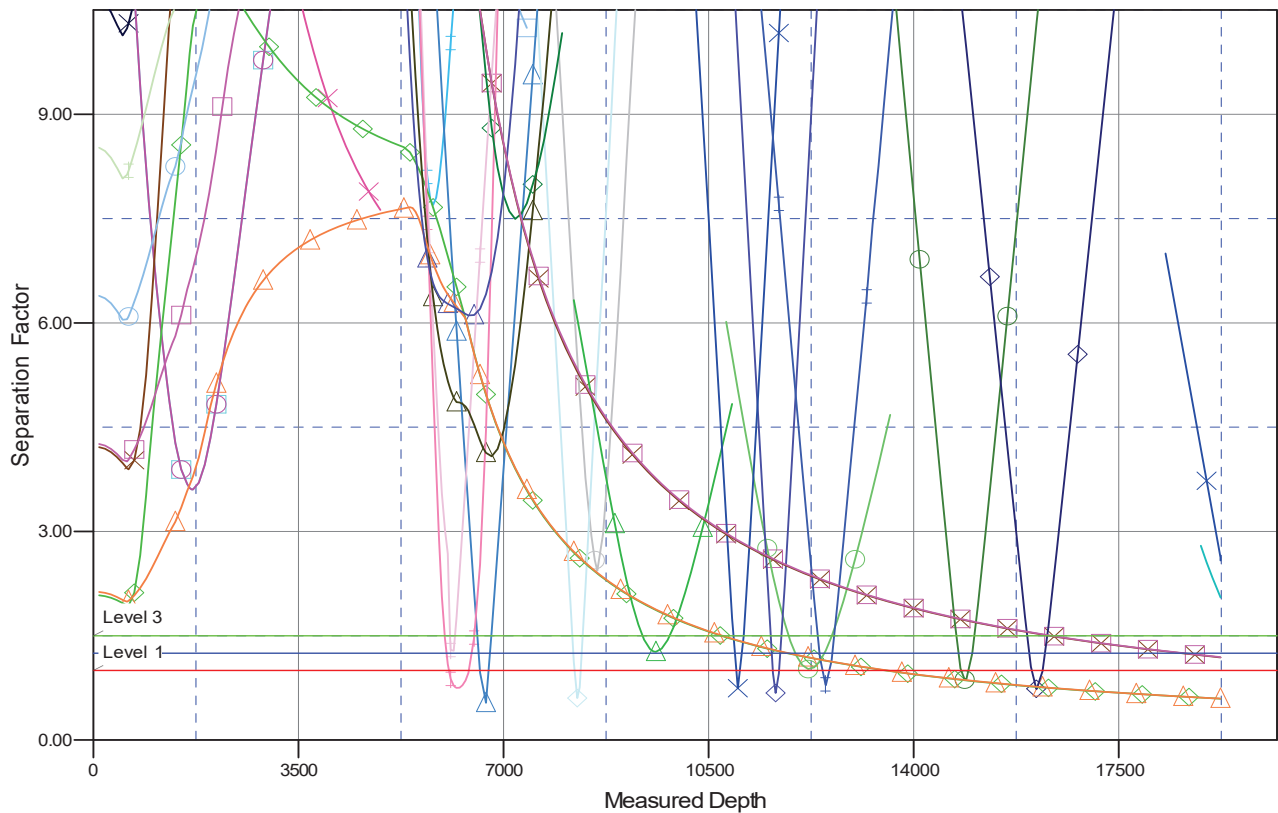
Anticollision Summary Report

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Project:	WATTENBERG FIELD	TVD Reference:	RKB = 20' @ 4744.00usft (RIG)
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Coordinates are relative to: SPEED GOAT FED 3432-03H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 1.07°

Separation Factor Plot



LEGEND

ST JOHN'S CATHOLIC CHURCH #11-31, Ed Davis LLC D/A Well, No Surveys V0	DENNIS #F PEC D/A Well, No Surveys V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
Bringleston 232-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGLESTON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-01H, Plan C, Permit Rev-1 V0
Bringleston 132-9-58, Verdard PR Well, Actual Precision Surveys V0	Bringleston #62-33, Carrizo D/A Well, No Surveys V0	SPEED GOAT FED 3432-04H, Plan C, Permit Rev-1 V0
TIMBROD FED 1931-08H, Wellbore #1, Design #4 V0	BRINGLESTON 2-33-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-11H, Plan C, Permit Rev-1 V0
Bringleston Ranch 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0	BRINGLESTON RANCH 33-21-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-17H, Plan C, Permit Rev-1 V0
Bringleston Ranch 5-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-15H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-07H, Plan C, Permit Rev-1 V0
Bringleston Ranch 1-34-41-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-16H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-05H, Plan C, Permit Rev-1 V0
Bringleston Ranch 1-34-41-9-58, Verdard Original Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-02H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-18H, Plan C, Permit Rev-1 V0
Bringleston Ranch 1-34-41-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3432-08H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3432-06H, Plan C, Permit Rev-1 V0
BRINGLESTON #F, PEC D/A Well, No Surveys V0	SPEED GOAT FED 3435-12H, Plan C, Permit Rev-1 V0	SPEED GOAT FED 3435-10H, Plan C, Permit Rev-1 V0
Bringleston Ranch 4-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-13H, Plan C, Permit Rev-1 V0	
Bringleston Ranch 3-34-9-58, Verdard PR Well, Actual Precision Surveys V0	SPEED GOAT FED 3435-14H, Plan C, Permit Rev-1 V0	