

# **Crestone Peak Resources**

**DJ BASIN**

**S18-T1N-R67W (HINGLEY)**

**HINGLEY 1K-18H-A167**

**OH**

**PLAN #2**

## **Anticollision Summary Report**

**19 January, 2018**

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well HINGLEY 1K-18H-A167 - Slot Hingley 1K-18H-A167 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 5081.00usft
<b>Reference Site:</b>	S18-T1N-R67W (HINGLEY)	<b>MD Reference:</b>	23' KB @ 5081.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PLAN #2		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 1,000.00 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	1/19/2018		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	2,000.00	PLAN #2 (OH)	VESSI_GYROFLEX	VESSI Gyroflex Gyro
2,001.00	12,452.94	PLAN #2 (OH)	MWD+HDGM	OWSG MWD + HDGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S18-T1N-R67W (HINGLEY)						
22-24 - KAISER-FRANCIS OIL - NO SURVEYS						Out of range
B C HOPKINS 3 - FRITZLER WELL - NO SURVEYS						Out of range
B C HOPKINS 4 - FRITZLER WELL - NO SURVEYS						Out of range
BLANCHE C 4 - KPK WELL - NO SURVEYS						Out of range
BLANCHE C HOPKINS 1 - KPK WELL - NO SURVEYS						Out of range
BLANCHE C HOPKINS 2 - KPK WELL - NO SURVEYS						Out of range
DACONO 16-13 - KMG WELL - GYRO						Out of range
EMERY31-13(1-68) 1 - NOBLE WELL - NO SURVEYS						Out of range
FOREMAN 1 - KPK WELL - NO SURVEYS						Out of range
FOREMAN 2 - KPK WELL - NO SURVEYS						Out of range
FOREMAN 3 - KPK WELL - SURVEYS						Out of range
FOREMAN UNIT 4 - KPK WELL - SURVEYS						Out of range
GRAHAM ELIZABETH W 1 - KMG WELL - NO SURVEY						Out of range
GRIFFITHS 13C-20HZX - KMG STK - SURVEYS	8,466.66	8,238.68	895.78	854.25	21.568	CC
GRIFFITHS 13C-20HZX - KMG STK - SURVEYS	12,452.94	12,238.61	976.10	816.97	6.134	ES, SF
GRIFFITHS 13C-20HZX - KMG WELL - SURVEYS	8,218.63	8,134.37	813.01	774.66	21.202	CC, ES
GRIFFITHS 13C-20HZX - KMG WELL - SURVEYS	8,400.00	8,206.00	821.80	782.51	20.916	SF
GRIFFITHS 14N-20HZ - KMG WELL - SURVEYS						Out of range
GRIFFITHS 34N-20HZ - KMG WELL - SURVEYS	8,979.40	8,613.60	402.05	357.98	9.123	CC
GRIFFITHS 34N-20HZ - KMG WELL - SURVEYS	12,452.94	12,089.65	455.06	345.21	4.143	ES, SF
GRIFFITHS 35C-20HZ - KMG WELL - SURVEYS						Out of range
GRIFFITHS 35N-20HZ - KMG WELL - SURVEYS						Out of range
GRIFFITHS 36C-20HZ - KMG WELL - SURVEYS						Out of range
HALEY 41-13 #1 - KMG WELL - NO SURVEYS						Out of range
HART 7-42 - KMG WELL - NO SURVEYS						Out of range
HERBERS 31-20 - CPR WELL - GYRO						Out of range
HICKS 13-18 - KPK WELL - NO SURVEYS						Out of range
HICKS 14-18 - BAYSWATER WELL - NO SURVEYS						Out of range
HICKS 23-18 - STARLIGHT WELL - NO SURVEYS						Out of range
HICKS 24-18 - BAYSWATER WELL - NO SURVEYS						Out of range
HICKS 4-18 - CPR WELL - GYRO						Out of range
HINGLEY 1 - CPR WELL - GYRO	232.51	233.87	690.45	689.83	1,119.509	CC, ES
HINGLEY 1 - CPR WELL - GYRO	8,700.00	7,595.29	917.00	877.56	23.248	SF
HINGLEY 12-18 - PDC WELL - GYRO						Out of range
HINGLEY 1A-18H-A167 - OH - PLAN #2	200.00	196.00	100.00	99.52	209.874	CC, ES

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# Cathedral Energy Services

## Anticollision Summary Report

<b>Company:</b>	Crestone Peak Resources	<b>Local Co-ordinate Reference:</b>	Well HINGLEY 1K-18H-A167 - Slot Hingley 1K-18H-A167 SHL
<b>Project:</b>	DJ BASIN	<b>TVD Reference:</b>	23' KB @ 5081.00usft
<b>Reference Site:</b>	S18-T1N-R67W (HINGLEY)	<b>MD Reference:</b>	23' KB @ 5081.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S18-T1N-R67W (HINGLEY)						
HINGLEY 1A-18H-A167 - OH - PLAN #2	800.00	767.75	176.66	174.03	67.325	SF
HINGLEY 1B - VESSELS WELL - NO SURVEYS						Out of range
HINGLEY 1B-18H-A167 - OH - PLAN #2	200.00	203.00	90.00	89.51	184.165	CC, ES
HINGLEY 1B-18H-A167 - OH - PLAN #2	800.00	777.12	150.96	148.35	57.822	SF
HINGLEY 1C-18H-A167 - OH - PLAN #2	200.00	203.00	80.00	79.51	163.702	CC, ES
HINGLEY 1C-18H-A167 - OH - PLAN #2	800.00	783.01	130.20	127.60	50.039	SF
HINGLEY 1D-18H-A167 - OH - PLAN #2	200.00	197.00	70.00	69.52	146.376	CC, ES
HINGLEY 1D-18H-A167 - OH - PLAN #2	4,700.00	4,584.23	981.77	959.78	44.653	SF
HINGLEY 1E-18H-A167 - OH - PLAN #2	200.00	202.00	60.00	59.51	123.217	CC, ES
HINGLEY 1E-18H-A167 - OH - PLAN #2	5,900.00	5,806.89	992.10	960.80	31.699	SF
HINGLEY 1F-18H-A167 - OH - PLAN #2	200.00	202.00	50.00	49.51	102.680	CC, ES
HINGLEY 1F-18H-A167 - OH - PLAN #2	6,800.00	6,721.98	998.24	960.31	26.319	SF
HINGLEY 1G-18H-A167 - OH - PLAN #2	200.00	199.00	40.00	39.52	83.037	CC, ES
HINGLEY 1G-18H-A167 - OH - PLAN #2	7,050.00	6,986.63	909.97	870.33	22.955	SF
HINGLEY 1H-18H-A167 - OH - PLAN #2	200.00	201.00	30.00	29.51	61.830	CC, ES
HINGLEY 1H-18H-A167 - OH - PLAN #2	12,452.94	12,451.38	699.98	543.53	4.474	SF
HINGLEY 1I-18H-A167 - OH - PLAN #2	207.88	207.91	19.97	19.45	39.057	CC, ES
HINGLEY 1I-18H-A167 - OH - PLAN #2	12,452.94	12,537.07	352.94	199.98	2.307	SF
HINGLEY 1J-18H-A167 - OH - PLAN #2	200.00	200.00	10.00	9.52	20.684	CC, ES
HINGLEY 1J-18H-A167 - OH - PLAN #2	7,050.00	7,048.13	101.33	61.58	2.549	SF
HINGLEY 2J - PDC WELL - GYRO						Out of range
HINGLEY 2S - TEXAS TEA WELL - NO SURVEYS	200.00	204.00	212.75	212.18	373.727	CC, ES
HINGLEY 2S - TEXAS TEA WELL - NO SURVEYS	5,000.00	4,881.00	807.97	785.55	36.036	SF
HINGLEY 3A-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3B-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3C-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3D-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3E-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3F-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3G-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3H-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3I-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3J-18H-N167 - OH - PLAN #1						Out of range
HINGLEY 3K-18H-N167 - OH - PLAN #2						Out of range
HINGLEY 3S - TEXAS TEA WELL - NO SURVEYS						Out of range
HINGLEY 4 - DENVER EAST WELL - NO SURVEYS						Out of range
HINGLEY 5 - DENVER EAST WELL - NO SURVEYS						Out of range
HINGLEY FARMS 32-18 - CPR WELL - GYRO						Out of range
HOPKINS 3 - KPK WELL - NO SURVEYS						Out of range
HOPKINS 32-19 1 - FRITZLER RESOURCES - NO SUR						Out of range
HOPKINS 41C-19#2 - FRITZLER RESOURCES - NO SU						Out of range
HSR RMF 12-8 - KMG WELL - NO SURVEYS						Out of range
JELTS 15C-19HZ - KMG WELL - SURVEYS						Out of range
JELTS 16N-19HZ - KMG WELL - SURVEYS	12,452.94	7,345.00	904.69	839.92	13.967	CC, ES, SF
JELTS 36N-19HZ - KMG WELL - SURVEYS						Out of range
JELTS 37C-19HZ - KMG WELL - SURVEYS						Out of range
JELTS 37N-19HZ - KMG WELL - SURVEYS						Out of range
JELTS 39C-19HZ - KMG WELL - SURVEYS	12,452.94	7,532.00	663.54	620.26	15.333	CC, ES, SF
JOHNSON 21-24 - MGF OIL CORP WELL - NO SURVE						Out of range
LAURIDSON 18-16 - KMG WELL - GYRO	12,163.51	7,671.58	600.55	513.38	6.889	CC, ES
LAURIDSON 18-16 - KMG WELL - GYRO	12,200.00	7,671.83	601.66	514.21	6.880	SF
LAURIDSON 2-A - KPK WELL - NO SURVEYS						Out of range

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<b>Reference Site:</b>	S18-T1N-R67W (HINGLEY)	<b>MD Reference:</b>	23' KB @ 5081.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S18-T1N-R67W (HINGLEY)						
LAURIDSON 31-24 - KPK WELL - NO SURVEYS						Out of range
LAURIDSON 32-24 - SRC ENERGY WELL - NO SURVEY						Out of range
LAURIDSON 41-24 - STARLIGHT RES WELL - NO SURVEY						Out of range
LAURIDSON 42-24 - KPK WELL - NO SURVEYS						Out of range
LAURIDSON VV 18-10 - KMG WELL - GYRO						Out of range
LAURIDSON VV18-4J - KMG WELL - GYRO						Out of range
LAURIDSON-A 1 - KPK WELL - NO SURVEYS						Out of range
LINKUS 32-24 - PDC WELL - NO SURVEYS						Out of range
LINKUS 41-24 - PDC WELL - GYRO						Out of range
M B SCHWAB 2 - KMG WELL - NO SURVEYS						Out of range
MARGUERITE TOTEMS U 2 - KMG WELL - GYRO						Out of range
MARK 1-A - CHAPARRAL RES - NO SURVEYS						Out of range
NRC 11-8 - KMG WELL - SURVEYS						Out of range
NRC 12-8 - KMG WELL - SURVEYS						Out of range
NRC 13-8 - KMG WELL - SURVEYS	7,007.72	7,036.41	909.98	871.26	23.506	CC, ES
NRC 13-8 - KMG WELL - SURVEYS	7,100.00	7,128.36	912.73	873.78	23.434	SF
NRC 14-8 - KMG WELL - SURVEYS						Out of range
NRC 15-8 - KMG WELL - SURVEYS						Out of range
NRC 22-8 - KMG WELL - SURVEYS						Out of range
NRC 23-8 - KMG WELL - SURVEYS						Out of range
NRC 28N-8HZ - KMG WELL - SURVEYS						Out of range
NRC 29N-8HZ - KMG WELL - SURVEYS						Out of range
NRC 30C-8HZ - KMG WELL - SURVEYS	7,936.20	7,792.17	228.55	193.79	6.575	CC, ES
NRC 30C-8HZ - KMG WELL - SURVEYS	7,950.00	7,783.34	228.81	193.91	6.555	SF
NRC 35-8 - KMG WELL - SURVEYS						Out of range
NRC 3C-8HZ - KMG WELL - SURVEYS						Out of range
NRC 4C-8HZ - KMG WELL - SURVEYS						Out of range
NRC 4N-8HZ - KMG WELL - SURVEYS	7,681.50	7,663.77	966.54	929.59	26.158	CC
NRC 4N-8HZ - KMG WELL - SURVEYS	7,700.00	7,651.68	966.70	929.54	26.009	ES
NRC 4N-8HZ - KMG WELL - SURVEYS	8,000.00	7,505.37	999.62	959.71	25.044	SF
PAUL HEINZE 1 - KPK WELL - NO SURVEYS						Out of range
RALPH 13C-19HZ - KMG WELL - SURVEYS						Out of range
RALPH 14N-19HZ - KMG WELL - SURVEYS						Out of range
RALPH 34C-19HZ - KMG WELL - SURVEYS						Out of range
RALPH 35C-19HZ - KMG WELL - SURVEYS						Out of range
RALPH 35N-19HZ - KMG WELL - SURVEYS						Out of range
RALPH 36C-19HZ - KMG WELL - SURVEYS						Out of range
ROCKY MOUNTAIN FUEL 1 - KMG WELL - NO SURVEY						Out of range
SCHWAB #1-32-13 - KMG WELL - NO SURVEYS						Out of range
STONEBRAKER 24-12 - KMG WELL - SURVEYS						Out of range
STONEBRAKER 25-12 - KMG WELL - SURVEYS						Out of range
STONEBRAKER 8-12 - KMG WELL - SURVEYS						Out of range
TROUDT 44-7 - KMG WELL - GYRO	6,896.13	6,815.49	428.52	397.04	13.613	CC
TROUDT 44-7 - KMG WELL - GYRO	6,900.00	6,819.36	428.52	397.02	13.604	ES
TROUDT 44-7 - KMG WELL - GYRO	6,950.00	6,869.56	429.66	397.91	13.532	SF
UNDERHILL 28N-17HZ - KMG WELL - SURVEYS						Out of range
UPRR 42 PAN AM 'AL' 1 - KMG WELL - GYRO						Out of range
UPRR 42 PAN AM GAS 1 - KMG WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM N #2 - KPK WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM N 1 - KMG WELL - GYRO						Out of range
UPRR 42 PAN AM N 4 - KPK WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM-AJ 1 - KPK WELL - NO SURVEYS						Out of range

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# Cathedral Energy Services

## Anticollision Summary Report

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<b>Reference Site:</b>	S18-T1N-R67W (HINGLEY)	<b>MD Reference:</b>	23' KB @ 5081.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
S18-T1N-R67W (HINGLEY)						
UPRR 42 PAN AM-AJ 4 - KPK WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM-AS 1 - KMG WELL - GYRO						Out of range
UPRR 42 PAN AM-AV 1 - KPK WELL - SURVEYS						Out of range
UPRR 42 PAN AM-J 2 - KPK WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM-J 3 - KPK WELL - NO SURVEYS						Out of range
UPRR 42 PAN AM-N 3 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM 1 2 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM 1 3 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM H 10 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM H 2 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM I #5 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM M TRUE #1 - KMG WELL - GYRO						Out of range
UPRR 43 PAN AM O 1 - KMG WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-H 7 - AMOCO WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-I 14 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-I 15 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-I 26 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-I 31 - KPK WELL - NO SURVEYS						Out of range
UPRR 43 PAN AM-J 1 - KMG WELL - NO SURVEYS						Out of range
UPRR PAN AM H 3 - KPK WELL - NO SURVEYS						Out of range
UPRR43PANAM-I 16 - KPK WELL - NO SURVEYS						Out of range

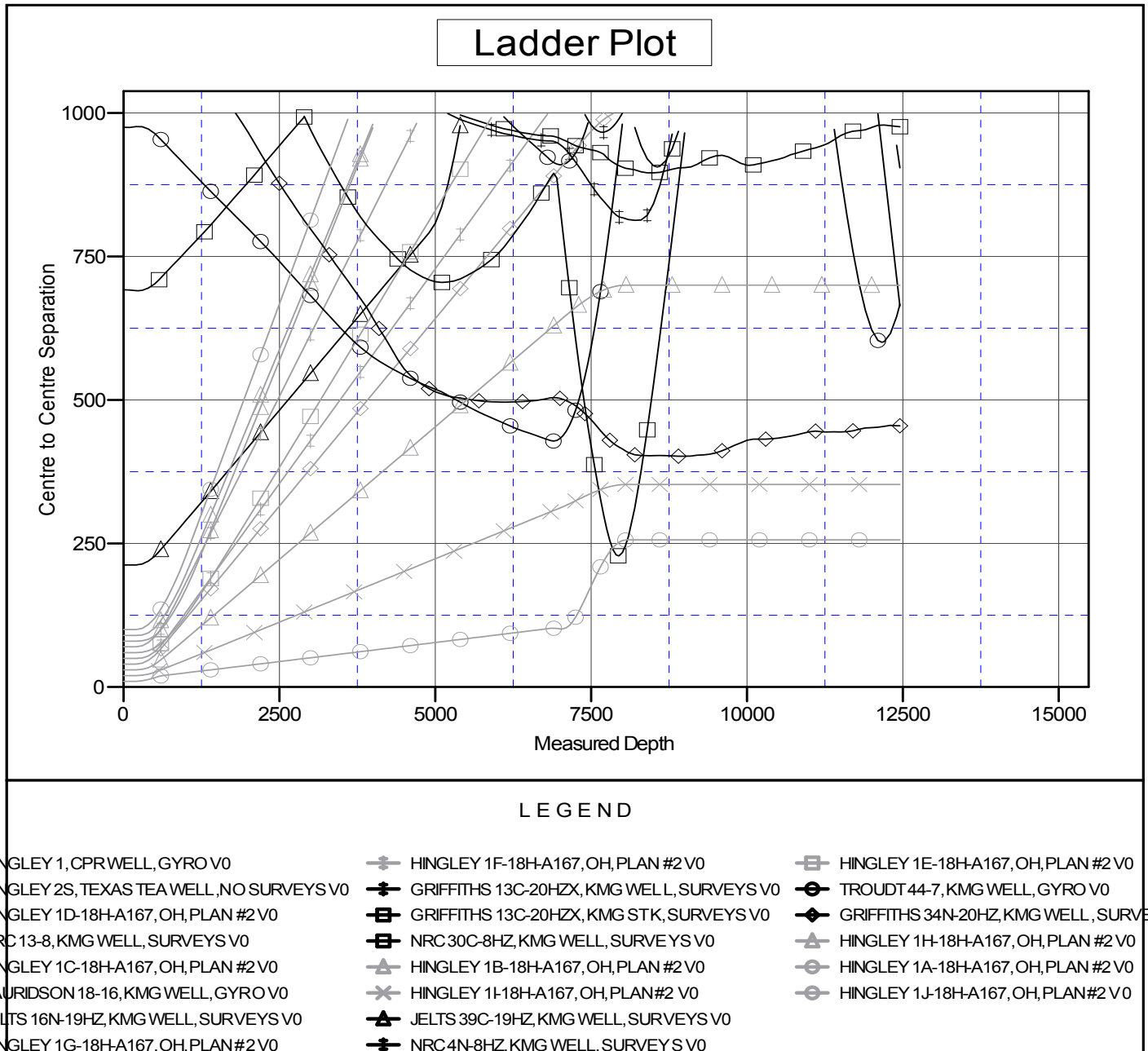
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<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
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<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 23' KB @ 5081.00usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: HINGLEY 1K-18H-A167 - Slot Hingley 1K-18H-A167 S  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.37°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

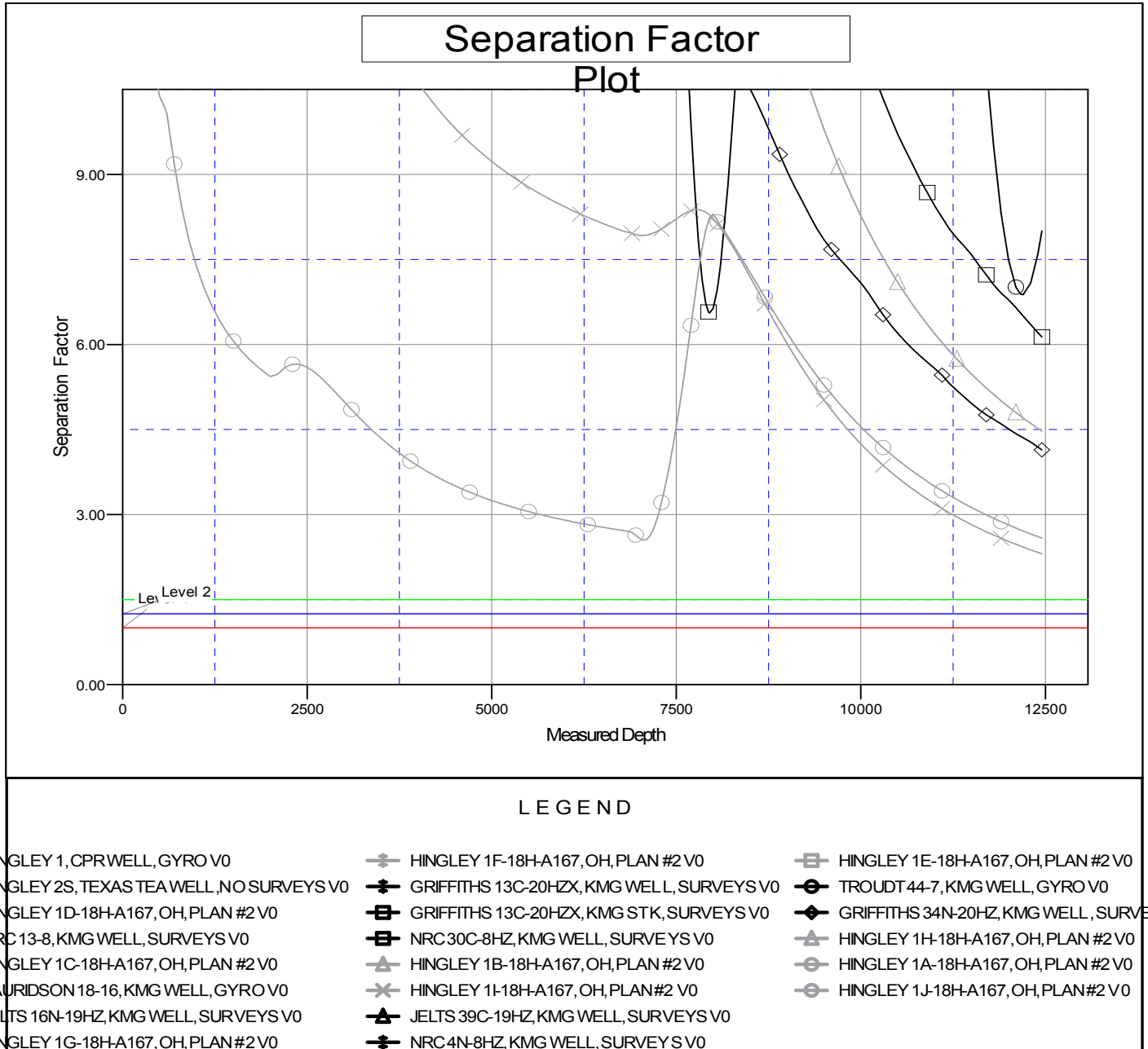
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<b>Reference Well:</b>	HINGLEY 1K-18H-A167	<b>Survey Calculation Method:</b>	Minimum Curvature
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<b>Reference Wellbore</b>	OH	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	PLAN #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to 23' KB @ 5081.00usft  
Offset Depths are relative to Offset Datum  
Central Meridian is -105.500000

Coordinates are relative to: HINGLEY 1K-18H-A167 - Slot Hingley 1K-18H-A167 S  
Coordinate System is US State Plane 1983, Colorado Northern Zone  
Grid Convergence at Surface is: 0.37°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation