PDC ENERGY

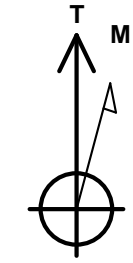
Project: WELD COUNTY, COLORADO (TRUE)
Site: NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)
Well: SCHRUTE 1N
Wellbore: Wellbore #1
Design: PROPOSAL #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.0	START NUDGE (2.00°/100ft)
1473.8	24.48	275.66	1436.9	25.4	-256.2	-255.3	257.4	EOB TO 24.48° INC
6149.7	24.48	275.66	5692.6	216.4	-2184.0	-2176.2	2194.7	KOP (8.00°/100ft)
7582.9	90.31	89.96	6703.0	262.8	-1527.7	-1518.7	2984.4	HZ LANDING POINT/EP
9650.0	90.31	89.96	6691.8	264.2	539.4	547.4	5051.5	END OF TANGENT
9851.3	90.31	96.00	6690.7	253.7	740.3	747.9	5252.8	EOT TO 96.00° AZI
10052.6	90.31	89.96	6689.6	243.3	941.3	948.4	5454.1	EOT TO 89.96° AZI
10251.3	90.31	84.00	6688.6	253.7	1139.6	1146.9	5652.8	EOT TO 84.00° AZI
10449.9	90.31	89.96	6687.5	264.2	1337.8	1345.4	5851.4	EOT TO 89.96° AZI
17735.9	90.31	89.96	6648.0	269.6	8623.8	8628.0	13137.3	TD/BHL

DESIGN TARGET DETAILS

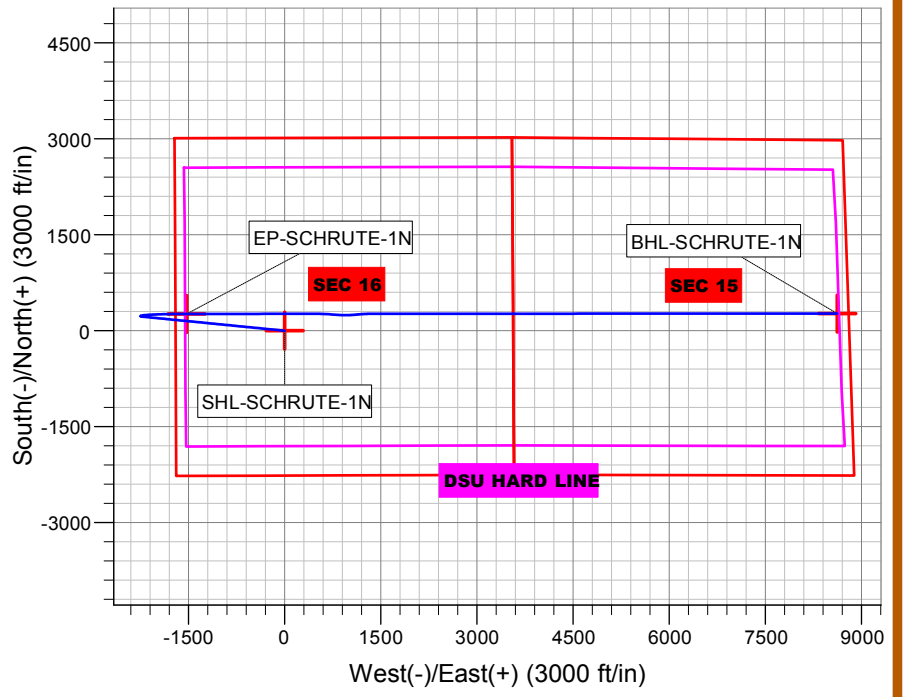
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
SHL-SCHRUTE-1N	0.0	0.0	0.0	40.3982896	-104.5583183
BHL-SCHRUTE-1N	6648.0	269.6	8623.8	40.3990254	-104.5273561
EP-SCHRUTE-1N	6703.0	262.8	-1527.7	40.3990109	-104.5638031



Azimuths to True North
Magnetic North: 7.90°

Magnetic Field
Strength: 52201.3nT
Dip Angle: 66.84°
Date: 4/30/2019
Model: IGRF2015

SHL FOOTAGE: SEC 16			
2265	FSL	1702	FWL
BHL FOOTAGE: SEC 15			
2533	FSL	175	FEL
EP FOOTAGE: SEC 16			
2533	FSL	175	FWL



PDC ENERGY

WELD COUNTY, COLORADO (TRUE)
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)
SCHRUTE 1N

Wellbore #1
PROPOSAL #1

Anticollision Report

02 May, 2019

PDC Energy

Anticollision Report

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Reference	PROPOSAL #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 ellipse separation of 1,000.0 ft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 5/2/2019

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	17,735.3	PROPOSAL #1 (Wellbore #1)	MWD	MWD - Standard

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NW NW SEC. 16 T5N R64W 6th P.M. (WATERMELON)						
ABDN VERT SOLIS #43-17 - Wellbore #1 - Wellbore #1	6,038.0	5,500.0	797.7	750.5	16.904	CC, ES
ABDN VERT SOLIS #43-17 - Wellbore #1 - Wellbore #1	6,100.0	5,500.0	800.1	752.4	16.764	SF
ABDN VERT SOLIS #44-17 - Wellbore #1 - Wellbore #1	5,348.9	4,890.5	1,607.4	1,565.4	38.228	CC
ABDN VERT SOLIS #44-17 - Wellbore #1 - Wellbore #1	5,500.0	5,042.1	1,608.2	1,564.6	36.912	ES
ABDN VERT SOLIS #44-17 - Wellbore #1 - Wellbore #1	6,350.0	5,855.7	1,638.5	1,588.2	32.593	SF
EXIST HZ CECILS KERSEY FARM #17B-212 - Wellbore	6,979.6	11,218.0	1,004.6	833.4	5.869	CC, ES
EXIST HZ CECILS KERSEY FARM #17B-212 - Wellbore	7,000.0	11,218.0	1,004.9	833.6	5.868	SF
EXIST HZ CECILS KERSEY FARM #17B-302 - Wellbore	7,014.7	11,362.0	1,204.7	1,032.9	7.012	CC, ES, SF
EXIST HZ CECILS KERSEY FARM #17K-232 - Wellbore	7,006.1	11,295.0	318.8	191.0	2.495	CC, ES, SF
EXIST HZ CECILS KERSEY FARM #17K-332 - Wellbore	7,028.5	11,372.0	528.4	373.9	3.421	CC, ES, SF
EXIST HZ CECILS KERSEY FARM #17K-402 - Wellbore	7,089.1	11,210.0	346.4	306.2	8.616	CC, ES, SF
EXIST HZ GILLAM #18X-102 - Wellbore #1 - Wellbore #	6,982.4	12,169.0	1,411.3	1,210.1	7.013	CC, ES, SF
EXIST HZ GILLAM #18X-232 - Wellbore #1 - Wellbore #	6,957.6	12,156.0	1,851.0	1,648.6	9.146	CC, ES, SF
EXIST HZ GILLAM #18X-332 - Wellbore #1 - Wellbore #	7,010.6	12,231.0	1,639.0	1,437.9	8.148	CC, ES, SF
EXIST HZ GILLAM #18Y-202 - Wellbore #1 - Wellbore #	6,937.3	12,206.1	2,382.6	2,181.2	11.829	CC
EXIST HZ GILLAM #18Y-202 - Wellbore #1 - Wellbore #	7,000.0	12,242.0	2,383.3	2,180.7	11.763	ES, SF
EXIST HZ GILLAM #18Y-312 - Wellbore #1 - Wellbore #	6,995.6	12,233.0	2,164.6	1,963.0	10.737	CC
EXIST HZ GILLAM #18Y-312 - Wellbore #1 - Wellbore #	7,000.0	12,233.0	2,164.6	1,963.0	10.736	ES
EXIST HZ GILLAM #18Y-312 - Wellbore #1 - Wellbore #	7,050.0	12,233.0	2,165.5	1,963.8	10.736	SF

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)						
ABDN HZ CHESNUT 21T-241ST - Wellbore #1 - Wellbo	10,898.0	11,382.0	3,022.8	2,878.8	20.991	CC
ABDN HZ CHESNUT 21T-241ST - Wellbore #1 - Wellbo	11,000.0	11,382.0	3,024.6	2,875.9	20.343	ES
ABDN HZ CHESNUT 21T-241ST - Wellbore #1 - Wellbo	12,200.0	11,382.0	3,291.3	3,100.6	17.254	SF
ABDN HZ KLEIN 19N-202ST - Wellbore #1 - Wellbore #1	10,014.1	16,850.0	3,696.3	3,317.8	9.765	CC
ABDN HZ KLEIN 19N-202ST - Wellbore #1 - Wellbore #1	10,100.0	16,929.6	3,698.3	3,315.5	9.661	ES
ABDN HZ KLEIN 19N-202ST - Wellbore #1 - Wellbore #1	10,900.0	17,302.0	3,761.8	3,351.8	9.177	SF
ABDN VERT KOHLER 1-21 - Wellbore #1 - Wellbore #1	12,173.0	6,557.6	3,119.7	2,971.9	21.114	CC
ABDN VERT KOHLER 1-21 - Wellbore #1 - Wellbore #1	12,300.0	6,561.3	3,122.3	2,971.3	20.678	ES
ABDN VERT KOHLER 1-21 - Wellbore #1 - Wellbore #1	13,000.0	6,581.7	3,227.4	3,063.1	19.654	SF
ABDN VERT LOUSTALET #15-1 - Wellbore #1 - Wellbor	13,582.2	6,613.6	537.6	352.7	2.907	CC
ABDN VERT LOUSTALET #15-1 - Wellbore #1 - Wellbor	13,600.0	6,613.5	537.9	352.6	2.903	ES, SF
ABDN VERT LOUSTALET #B15-14 - Wellbore #1 - Desi	14,870.6	6,614.5	1,869.6	1,519.2	5.336	CC
ABDN VERT LOUSTALET #B15-14 - Wellbore #1 - Desi	14,900.0	6,614.4	1,869.9	1,518.7	5.325	ES
ABDN VERT LOUSTALET #B15-14 - Wellbore #1 - Desi	15,000.0	6,613.8	1,874.1	1,520.8	5.304	SF
ABDN VERT LOUSTALET #B15-15 - Wellbore #1 - Desi	15,955.8	6,607.7	1,897.1	1,517.0	4.991	CC
ABDN VERT LOUSTALET #B15-15 - Wellbore #1 - Desi	16,000.0	6,607.4	1,897.6	1,516.4	4.977	ES
ABDN VERT LOUSTALET #B15-15 - Wellbore #1 - Desi	16,100.0	6,606.9	1,902.6	1,519.3	4.964	SF
ABDN VERT LOUSTALET #B15-16 - Wellbore #1 - Wellb	17,150.7	6,511.0	2,001.9	1,719.1	7.078	CC
ABDN VERT LOUSTALET #B15-16 - Wellbore #1 - Wellb	17,200.0	6,512.7	2,002.5	1,718.4	7.048	ES
ABDN VERT LOUSTALET #B15-16 - Wellbore #1 - Wellb	17,300.0	6,516.3	2,007.5	1,721.3	7.015	SF
ABDN VERT LOUSTALET #B15-9 - Wellbore #1 - Desig	17,191.4	6,599.0	672.1	257.9	1.623	CC
ABDN VERT LOUSTALET #B15-9 - Wellbore #1 - Desig	17,200.0	6,598.9	672.2	257.8	1.622	ES, SF
ABDN VERT PATRIOT #B16-14 - Wellbore #1 - Wellbore	299.3	270.0	1,726.9	1,726.1	2,154.351	CC
ABDN VERT PATRIOT #B16-14 - Wellbore #1 - Wellbore	300.0	270.7	1,726.9	1,726.1	2,148.629	ES
ABDN VERT PATRIOT #B16-14 - Wellbore #1 - Wellbore	10,000.0	6,584.3	2,136.3	2,048.2	24.232	SF
ABDN VERT PATRIOT #B16-3 - Wellbore #1 - Wellbore	9,375.7	6,766.6	2,216.0	2,138.5	28.606	CC
ABDN VERT PATRIOT #B16-3 - Wellbore #1 - Wellbore	9,400.0	6,767.2	2,216.1	2,138.1	28.421	ES
ABDN VERT PATRIOT #B16-3 - Wellbore #1 - Wellbore	10,100.0	6,787.9	2,350.6	2,261.1	26.281	SF
ABDN VERT PATRIOT #B16-5 - Wellbore #1 - Wellbore	8,078.8	6,718.4	818.4	763.5	14.918	CC, ES
ABDN VERT PATRIOT #B16-5 - Wellbore #1 - Wellbore	8,100.0	6,718.9	818.6	763.6	14.880	SF
ABDN VERT PATRIOT #B16-9 - Wellbore #1 - Wellbore	12,007.0	6,660.5	461.4	318.6	3.231	CC, ES, SF
ABDN VERT PLATTE VALLEY 2-21 - Wellbore #1 - Well	10,765.0	6,529.8	3,271.9	3,161.6	29.651	CC
ABDN VERT PLATTE VALLEY 2-21 - Wellbore #1 - Well	10,800.0	6,529.2	3,272.1	3,160.9	29.419	ES
ABDN VERT PLATTE VALLEY 2-21 - Wellbore #1 - Well	11,900.0	6,514.0	3,463.2	3,331.0	26.207	SF
EXIST DD BAUER DEBUS 22AD - Wellbore #1 - Wellbo	14,046.7	6,612.7	3,877.5	3,665.1	18.258	CC
EXIST DD BAUER DEBUS 22AD - Wellbore #1 - Wellbo	14,100.0	6,612.6	3,877.8	3,664.1	18.146	ES
EXIST DD BAUER DEBUS 22AD - Wellbore #1 - Wellbo	15,000.0	6,610.5	3,993.0	3,762.4	17.320	SF
EXIST DD BAUER DEBUS 22JD - Wellbore #1 - Wellbor	14,030.3	6,623.3	2,642.3	2,430.3	12.465	CC
EXIST DD BAUER DEBUS 22JD - Wellbore #1 - Wellbor	14,100.0	6,622.7	2,643.2	2,429.3	12.357	ES
EXIST DD BAUER DEBUS 22JD - Wellbore #1 - Wellbor	14,500.0	6,619.3	2,683.7	2,461.4	12.074	SF
EXIST DD BAUER DEBUS 22MD - Wellbore #1 - Wellbo	15,295.4	6,713.7	2,595.6	2,346.7	10.427	CC
EXIST DD BAUER DEBUS 22MD - Wellbore #1 - Wellbo	15,400.0	6,712.8	2,597.7	2,346.3	10.334	ES
EXIST DD BAUER DEBUS 22MD - Wellbore #1 - Wellbo	15,600.0	6,711.2	2,613.4	2,358.4	10.251	SF
EXIST DD BAUER DEBUS 22ND - Wellbore #1 - Wellbo	15,304.5	6,710.7	3,821.7	3,572.4	15.327	CC
EXIST DD BAUER DEBUS 22ND - Wellbore #1 - Wellbo	15,400.0	6,711.2	3,822.9	3,570.8	15.167	ES
EXIST DD BAUER DEBUS 22ND - Wellbore #1 - Wellbo	16,100.0	6,714.8	3,903.6	3,636.3	14.606	SF
EXIST DD DOUGHMAN #22RD - Wellbore #1 - Wellbore	16,687.6	6,638.0	2,628.5	2,342.9	9.204	CC
EXIST DD DOUGHMAN #22RD - Wellbore #1 - Wellbore	16,800.0	6,638.0	2,630.9	2,342.2	9.114	ES
EXIST DD DOUGHMAN #22RD - Wellbore #1 - Wellbore	17,000.0	6,638.0	2,647.0	2,354.1	9.038	SF
EXIST DD DOUGHMAN 22VD - Wellbore #1 - Wellbore	17,735.9	6,708.8	3,846.5	3,531.7	12.217	CC, ES, SF
EXIST DD FRENZEL B 15-6 - Wellbore #1 - Wellbore #1	14,765.0	6,973.3	875.2	624.8	3.495	CC
EXIST DD FRENZEL B 15-6 - Wellbore #1 - Wellbore #1	14,800.0	6,973.6	875.9	624.3	3.481	ES, SF

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
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Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)						
EXIST DD GLOVER USX B 15-02CD - Wellbore #1 - We	15,848.1	6,562.6	1,916.1	1,658.5	7.438	CC
EXIST DD GLOVER USX B 15-02CD - Wellbore #1 - We	15,900.0	6,559.8	1,916.8	1,658.0	7.407	ES
EXIST DD GLOVER USX B 15-02CD - Wellbore #1 - We	16,100.0	6,550.1	1,932.6	1,670.4	7.372	SF
EXIST DD KLEIN B15-13D - Wellbore #1 - Wellbore #1	13,378.0	6,865.4	1,905.6	1,696.8	9.126	CC
EXIST DD KLEIN B15-13D - Wellbore #1 - Wellbore #1	13,400.0	6,865.4	1,905.7	1,696.4	9.104	ES
EXIST DD KLEIN B15-13D - Wellbore #1 - Wellbore #1	13,600.0	6,866.0	1,918.5	1,705.6	9.014	SF
EXIST DD P&H 22CD - Wellbore #1 - Wellbore #1	16,721.5	6,762.0	3,840.9	3,552.5	13.319	CC
EXIST DD P&H 22CD - Wellbore #1 - Wellbore #1	16,800.0	6,762.0	3,841.7	3,551.4	13.230	ES
EXIST DD P&H 22CD - Wellbore #1 - Wellbore #1	17,400.0	6,778.8	3,900.4	3,598.7	12.929	SF
EXIST HZ CHESNUT 21T-321 - Wellbore #1 - Wellbore	11,690.3	11,342.0	3,021.7	2,870.0	19.928	CC
EXIST HZ CHESNUT 21T-321 - Wellbore #1 - Wellbore	11,800.0	11,342.0	3,023.7	2,867.5	19.358	ES
EXIST HZ CHESNUT 21T-321 - Wellbore #1 - Wellbore	13,000.0	11,342.0	3,293.3	3,096.3	16.719	SF
EXIST HZ CHESNUT 21Q-321 - Wellbore #1 - Wellbore	10,628.3	11,710.0	3,025.5	2,881.6	21.015	CC
EXIST HZ CHESNUT 21Q-321 - Wellbore #1 - Wellbore	10,800.0	11,710.0	3,030.4	2,878.8	19.988	ES
EXIST HZ CHESNUT 21Q-321 - Wellbore #1 - Wellbore	11,900.0	11,710.0	3,281.9	3,092.8	17.357	SF
EXIST HZ CHESNUT 21T-201 - Wellbore #1 - Wellbore	11,464.6	11,172.0	3,024.3	2,875.8	20.356	CC
EXIST HZ CHESNUT 21T-201 - Wellbore #1 - Wellbore	11,600.0	11,172.0	3,027.4	2,872.8	19.589	ES
EXIST HZ CHESNUT 21T-201 - Wellbore #1 - Wellbore	12,800.0	11,172.0	3,306.0	3,110.3	16.887	SF
EXIST HZ CHESNUT 21T-221 - Wellbore #1 - Survey #1	11,935.6	11,155.0	3,024.2	2,869.0	19.493	CC
EXIST HZ CHESNUT 21T-221 - Wellbore #1 - Survey #1	12,100.0	11,155.0	3,028.6	2,867.2	18.762	ES
EXIST HZ CHESNUT 21T-221 - Wellbore #1 - Survey #1	13,200.0	11,155.0	3,277.8	3,080.0	16.573	SF
EXIST HZ CHESNUT 21T-301 - Wellbore #1 - Wellbore	11,163.4	11,103.0	3,276.6	3,130.5	22.430	CC
EXIST HZ CHESNUT 21T-301 - Wellbore #1 - Wellbore	11,300.0	11,103.0	3,279.4	3,127.6	21.598	ES
EXIST HZ CHESNUT 21T-301 - Wellbore #1 - Wellbore	12,600.0	11,103.0	3,577.7	3,383.7	18.446	SF
EXIST HZ CHESNUT 21Y-341 - Wellbore #1 - Wellbore	12,221.8	11,272.0	3,019.7	2,858.6	18.745	CC
EXIST HZ CHESNUT 21Y-341 - Wellbore #1 - Wellbore	12,300.0	11,272.0	3,020.7	2,857.2	18.482	ES
EXIST HZ CHESNUT 21Y-341 - Wellbore #1 - Wellbore	13,500.0	11,272.0	3,279.0	3,077.9	16.298	SF
EXIST HZ CHESNUT 21Y-401 - Wellbore #1 - Wellbore	12,468.7	11,376.0	3,022.5	2,854.5	17.996	CC
EXIST HZ CHESNUT 21Y-401 - Wellbore #1 - Wellbore	12,500.0	11,376.0	3,022.6	2,854.0	17.921	ES
EXIST HZ CHESNUT 21Y-401 - Wellbore #1 - Wellbore	13,700.0	11,376.0	3,263.7	3,061.1	16.109	SF
EXIST HZ CHESNUT 27G-221 - Wellbore #1 - Wellbore	13,172.7	13,336.0	3,020.7	2,828.1	15.684	CC
EXIST HZ CHESNUT 27G-221 - Wellbore #1 - Wellbore	13,300.0	13,336.0	3,023.4	2,823.7	15.144	ES
EXIST HZ CHESNUT 27G-221 - Wellbore #1 - Wellbore	14,500.0	13,336.0	3,299.4	3,043.4	12.889	SF
EXIST HZ CHESNUT 27G-301 - Wellbore #1 - Wellbore	12,817.0	13,480.0	3,077.1	2,888.7	16.330	CC
EXIST HZ CHESNUT 27G-301 - Wellbore #1 - Wellbore	13,000.0	13,480.0	3,082.6	2,883.4	15.481	ES
EXIST HZ CHESNUT 27G-301 - Wellbore #1 - Wellbore	14,200.0	13,480.0	3,373.6	3,119.6	13.280	SF
EXIST HZ CHESNUT 27K-201 - Wellbore #1 - Wellbore	14,130.2	13,284.0	3,023.5	2,808.8	14.082	CC
EXIST HZ CHESNUT 27K-201 - Wellbore #1 - Wellbore	14,200.0	13,284.0	3,024.4	2,808.3	14.000	ES
EXIST HZ CHESNUT 27K-201 - Wellbore #1 - Wellbore	15,400.0	13,284.0	3,279.4	3,016.1	12.458	SF
EXIST HZ CHESNUT 27K-341 - Wellbore #1 - Wellbore	13,489.7	13,382.0	3,020.5	2,822.0	15.214	CC
EXIST HZ CHESNUT 27K-341 - Wellbore #1 - Wellbore	13,600.0	13,382.0	3,022.5	2,818.9	14.842	ES
EXIST HZ CHESNUT 27K-341 - Wellbore #1 - Wellbore	14,800.0	13,382.0	3,292.5	3,034.3	12.755	SF
EXIST HZ CHESNUT 27K-401 - Wellbore #1 - Wellbore	13,787.3	13,407.0	3,020.5	2,815.0	14.702	CC
EXIST HZ CHESNUT 27K-401 - Wellbore #1 - Wellbore	13,900.0	13,407.0	3,022.6	2,813.2	14.435	ES
EXIST HZ CHESNUT 27K-401 - Wellbore #1 - Wellbore	15,100.0	13,407.0	3,293.4	3,032.0	12.601	SF
EXIST HZ CHESNUT 27K-421 - Wellbore #1 - Wellbore	14,427.5	13,455.0	3,025.7	2,799.9	13.403	CC, ES
EXIST HZ CHESNUT 27K-421 - Wellbore #1 - Wellbore	15,700.0	13,455.0	3,282.4	3,015.3	12.287	SF
EXIST HZ CHESNUT 27O-201 - Wellbore #1 - Wellbore	15,136.7	13,300.0	3,082.4	2,829.5	12.185	CC, ES
EXIST HZ CHESNUT 27O-201 - Wellbore #1 - Wellbore	16,300.0	13,300.0	3,294.6	3,021.8	12.074	SF
EXIST HZ CHESNUT 27O-341 - Wellbore #1 - Wellbore	14,802.5	13,340.0	3,081.1	2,841.7	12.870	CC, ES
EXIST HZ CHESNUT 27O-341 - Wellbore #1 - Wellbore	16,000.0	13,340.0	3,305.6	3,037.0	12.307	SF
EXIST HZ HOLMAN B15-65HNM - Wellbore #1 - Wellbo	17,735.9	8,875.8	134.8	-212.9	0.388	Level 1, CC, ES, SF

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

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)						
EXIST HZ HOLMAN B15-66HN - Wellbore #1 - Wellbore	13,910.9	12,684.0	595.4	229.3	1.626	CC, ES, SF
EXIST HZ KLEIN #19M-402 - Wellbore #1 - Wellbore #1	10,121.8	17,271.6	2,596.6	2,207.6	6.674	CC
EXIST HZ KLEIN #19M-402 - Wellbore #1 - Wellbore #1	10,251.3	17,439.4	2,599.5	2,202.9	6.554	ES
EXIST HZ KLEIN #19M-402 - Wellbore #1 - Wellbore #1	10,600.0	17,440.0	2,615.3	2,211.8	6.481	SF
EXIST HZ KLEIN #B16-98HZ - Wellbore #1 - Wellbore #	9,603.8	9,566.8	20.1	-30.0	0.401	Level 1, CC
EXIST HZ KLEIN #B16-98HZ - Wellbore #1 - Wellbore #	9,650.0	9,535.2	39.2	-83.6	0.319	Level 1, ES, SF
EXIST HZ KLEIN #B16-99HZ - Wellbore #1 - Wellbore #	10,780.8	8,483.7	88.1	36.1	1.694	CC
EXIST HZ KLEIN #B16-99HZ - Wellbore #1 - Wellbore #	10,900.0	8,400.2	123.0	20.9	1.204	Level 2, ES, SF
EXIST HZ KLEIN 19M-232 - Wellbore #1 - Wellbore #1	6,721.9	16,918.0	5,764.9	5,670.7	61.245	CC, ES
EXIST HZ KLEIN 19M-232 - Wellbore #1 - Wellbore #1	6,850.0	16,918.0	5,777.5	5,683.0	61.111	SF
EXIST HZ KLEIN 19N-312 - Wellbore #1 - Wellbore #1	10,114.7	17,263.5	3,340.9	2,952.2	8.594	CC
EXIST HZ KLEIN 19N-312 - Wellbore #1 - Wellbore #1	10,200.0	17,343.0	3,342.9	2,949.9	8.506	ES
EXIST HZ KLEIN 19N-312 - Wellbore #1 - Wellbore #1	10,700.0	17,429.0	3,367.8	2,961.5	8.289	SF
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore	17,061.7	11,032.0	3,030.2	2,732.9	10.193	CC
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore	17,200.0	11,032.0	3,033.4	2,730.1	10.003	ES
EXIST HZ LEDFORD #22T-221 - Wellbore #1 - Wellbore	17,700.0	11,032.0	3,096.7	2,775.4	9.637	SF
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore	16,820.0	11,138.0	3,030.0	2,736.5	10.323	CC
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore	17,000.0	11,138.0	3,035.4	2,733.8	10.064	ES
EXIST HZ LEDFORD #22T-321 - Wellbore #1 - Wellbore	17,600.0	11,138.0	3,128.8	2,806.5	9.708	SF
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore	17,533.5	11,072.0	3,033.6	2,726.6	9.882	CC
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore	17,600.0	11,072.0	3,034.3	2,725.1	9.813	ES
EXIST HZ LEDFORD #22Y-341 - Wellbore #1 - Wellbore	17,735.9	11,072.0	3,040.3	2,726.8	9.699	SF
EXIST HZ LEDFORD #22Y-401 - Wellbore #1 - Wellbore	17,735.9	11,110.0	3,036.4	2,724.1	9.722	CC, ES, SF
EXIST HZ PETERSON 14W-234 - Wellbore #1 - Wellbor	17,735.9	10,840.0	850.5	613.1	3.583	CC, ES, SF
EXIST HZ PETERSON 14W-434 - Wellbore #1 - Wellbor	17,735.9	10,990.0	695.8	605.1	7.672	CC, ES, SF
EXIST HZ PETERSON 14X-234 - Wellbore #1 - Wellbore	17,735.9	10,848.0	2,013.1	1,618.2	5.097	CC, ES, SF
EXIST HZ PETERSON 14X-304 - Wellbore #1 - Wellbore	17,735.9	10,906.0	1,351.7	992.5	3.762	CC, ES, SF
EXIST HZ PETERSON 14X-414 - Wellbore #1 - Wellbore	17,735.9	10,970.0	1,058.5	747.1	3.399	CC, ES, SF
EXIST HZ PETERSON 14X-434 - Wellbore #1 - Wellbore	17,735.9	10,917.0	1,578.4	1,202.9	4.204	CC, ES, SF
EXIST HZ PETERSON 14Y-304 - Wellbore #1 - Wellbore	17,735.9	10,979.0	2,585.2	2,178.7	6.360	CC, ES, SF
EXIST HZ PETERSON 14Y-414 - Wellbore #1 - Wellbore	17,735.9	10,969.0	2,265.0	1,864.0	5.649	CC, ES, SF
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Well	15,935.1	11,096.0	3,029.5	2,766.0	11.497	CC
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Well	16,000.0	11,096.0	3,030.2	2,764.4	11.399	ES
EXIST HZ SAPPINGTON #22Q-221 - Wellbore #1 - Well	16,700.0	11,096.0	3,124.6	2,836.9	10.862	SF
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	15,539.8	11,190.0	3,029.1	2,773.2	11.833	CC
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	15,700.0	11,190.0	3,033.4	2,770.8	11.551	ES
EXIST HZ SAPPINGTON #22Q-301 - Wellbore #1 - Well	16,400.0	11,190.0	3,148.9	2,864.0	11.051	SF
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Well	16,244.9	11,116.0	3,030.8	2,759.8	11.185	CC
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Well	16,300.0	11,116.0	3,031.3	2,758.7	11.121	ES
EXIST HZ SAPPINGTON #22T-341 - Wellbore #1 - Well	17,000.0	11,116.0	3,123.4	2,831.5	10.698	SF
EXIST HZ SAPPINGTON 22T-201 - Wellbore #1 - Wellb	16,596.2	11,066.0	3,029.7	2,748.3	10.766	CC
EXIST HZ SAPPINGTON 22T-201 - Wellbore #1 - Wellb	16,700.0	11,066.0	3,031.5	2,747.9	10.691	ES
EXIST HZ SAPPINGTON 22T-201 - Wellbore #1 - Wellb	17,300.0	11,066.0	3,110.4	2,813.8	10.488	SF
EXIST HZ SEYLER STATE B15-79HNM - Wellbore #1 -	12,538.3	6,426.0	513.0	370.3	3.594	CC, ES, SF
EXIST VERT FRENZEL #B15-5 - Wellbore #1 - Wellbore	13,128.8	6,617.7	339.3	166.6	1.964	CC, ES, SF
EXIST VERT JOSHUA 1 - Wellbore #1 - Wellbore #1	14,624.0	6,627.9	3,060.7	2,847.4	14.348	CC
EXIST VERT JOSHUA 1 - Wellbore #1 - Wellbore #1	14,700.0	6,628.3	3,061.7	2,846.3	14.219	ES
EXIST VERT JOSHUA 1 - Wellbore #1 - Wellbore #1	15,200.0	6,631.1	3,114.4	2,889.4	13.837	SF
EXIST VERT KALEB 1 - Wellbore #1 - Wellbore #1	13,427.1	6,489.5	3,028.5	2,848.0	16.781	CC
EXIST VERT KALEB 1 - Wellbore #1 - Wellbore #1	13,500.0	6,491.3	3,029.4	2,847.0	16.609	ES
EXIST VERT KALEB 1 - Wellbore #1 - Wellbore #1	14,100.0	6,507.0	3,102.3	2,908.3	15.987	SF
EXIST VERT LOUSTALET #42-15 - Wellbore #1 - Wellbo	16,981.1	6,659.0	542.2	264.5	1.952	CC

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

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)						
EXIST VERT LOUSTALET #42-15 - Wellbore #1 - Wellbo	17,000.0	6,658.9	542.5	264.4	1.951	ES, SF
EXIST VERT LOUSTALET #B15-10 - Wellbore #1 - Desi	15,988.3	6,597.5	471.2	90.3	1.237	Level 2, CC
EXIST VERT LOUSTALET #B15-10 - Wellbore #1 - Desi	16,000.0	6,597.4	471.3	90.2	1.237	Level 2, ES, SF
EXIST VERT LOUSTALET #B15-11 - Wellbore #1 - Desi	14,745.9	6,617.2	539.8	192.8	1.556	CC, ES, SF
EXIST VERT LOUSTALET #B15-15X - Wellbore #1 - De	16,173.3	6,605.5	2,042.2	1,656.1	5.289	CC
EXIST VERT LOUSTALET #B15-15X - Wellbore #1 - De	16,200.0	6,605.3	2,042.4	1,655.6	5.280	ES
EXIST VERT LOUSTALET #B15-15X - Wellbore #1 - De	16,300.0	6,604.8	2,046.1	1,657.1	5.260	SF
EXIST VERT LOUSTALET #B15-23 - Wellbore #1 - Well	16,639.5	6,600.0	1,212.6	943.8	4.510	CC, ES
EXIST VERT LOUSTALET #B15-23 - Wellbore #1 - Well	16,700.0	6,600.0	1,214.1	944.0	4.495	SF
EXIST VERT LUCAS 1 - Wellbore #1 - Wellbore #1	17,358.2	6,686.9	3,268.8	2,979.9	11.314	CC
EXIST VERT LUCAS 1 - Wellbore #1 - Wellbore #1	17,400.0	6,686.6	3,269.1	2,979.1	11.271	ES
EXIST VERT LUCAS 1 - Wellbore #1 - Wellbore #1	17,700.0	6,684.5	3,286.6	2,990.0	11.079	SF
EXIST VERT PATRIOT #B16-10 - Wellbore #1 - Wellbore	10,878.8	6,658.4	612.2	498.2	5.373	CC
EXIST VERT PATRIOT #B16-10 - Wellbore #1 - Wellbore	10,900.0	6,658.3	612.5	498.1	5.354	ES, SF
EXIST VERT PATRIOT #B16-11 - Wellbore #1 - Wellbore	100.0	74.3	543.2	543.2	6,221.884	CC
EXIST VERT PATRIOT #B16-11 - Wellbore #1 - Wellbore	9,502.3	6,674.7	594.5	514.0	7.380	ES
EXIST VERT PATRIOT #B16-11 - Wellbore #1 - Wellbore	9,600.0	6,674.2	602.5	520.6	7.353	SF
EXIST VERT PATRIOT #B16-12 - Wellbore #1 - Design #	3,542.9	3,300.1	421.5	333.0	4.764	CC
EXIST VERT PATRIOT #B16-12 - Wellbore #1 - Design #	3,600.0	3,352.1	422.2	332.1	4.689	ES
EXIST VERT PATRIOT #B16-12 - Wellbore #1 - Design #	8,000.0	6,680.7	574.0	390.0	3.118	SF
EXIST VERT PATRIOT #B16-15 - Wellbore #1 - Wellbore	10,740.1	6,610.0	2,134.6	2,024.6	19.402	CC
EXIST VERT PATRIOT #B16-15 - Wellbore #1 - Wellbore	10,800.0	6,611.0	2,135.5	2,024.0	19.152	ES
EXIST VERT PATRIOT #B16-15 - Wellbore #1 - Wellbore	11,300.0	6,619.5	2,206.8	2,086.4	18.322	SF
EXIST VERT PATRIOT #B16-16 - Wellbore #1 - Wellbore	12,056.0	6,476.5	2,140.9	1,997.5	14.926	CC
EXIST VERT PATRIOT #B16-16 - Wellbore #1 - Wellbore	12,100.0	6,477.5	2,141.4	1,996.8	14.813	ES
EXIST VERT PATRIOT #B16-16 - Wellbore #1 - Wellbore	12,500.0	6,486.1	2,186.5	2,034.4	14.380	SF
EXIST VERT PATRIOT #B16-17 - Wellbore #1 - Wellbore	11,421.4	6,640.6	1,476.0	1,348.7	11.588	CC, ES
EXIST VERT PATRIOT #B16-17 - Wellbore #1 - Wellbore	11,600.0	6,640.8	1,486.8	1,355.7	11.337	SF
EXIST VERT PATRIOT #B16-18 - Wellbore #1 - Wellbore	10,243.8	6,680.3	1,422.8	1,325.2	14.571	CC
EXIST VERT PATRIOT #B16-18 - Wellbore #1 - Wellbore	10,251.3	6,680.4	1,422.9	1,325.1	14.552	ES
EXIST VERT PATRIOT #B16-18 - Wellbore #1 - Wellbore	10,400.0	6,682.0	1,436.5	1,336.7	14.381	SF
EXIST VERT PATRIOT #B16-19 - Wellbore #1 - Wellbore	8,847.1	6,691.8	1,132.4	1,065.5	16.924	CC, ES
EXIST VERT PATRIOT #B16-19 - Wellbore #1 - Wellbore	9,000.0	6,694.0	1,142.7	1,073.5	16.524	SF
EXIST VERT PATRIOT #B16-20 - Wellbore #1 - Wellbore	8,685.0	6,676.3	102.3	38.3	1.599	CC, ES, SF
EXIST VERT PATRIOT #B16-21 - Wellbore #1 - Wellbore	10,023.3	6,667.5	35.1	-57.4	0.380	Level 1, CC, ES, SF
EXIST VERT PATRIOT #B16-22 - Wellbore #1 - Wellbore	11,389.2	6,653.1	110.5	-16.0	0.874	Level 1, CC, ES, SF
EXIST VERT PATRIOT #B16-23 - Wellbore #1 - Wellbore	11,371.8	6,656.7	1,225.0	1,099.5	9.759	CC
EXIST VERT PATRIOT #B16-23 - Wellbore #1 - Wellbore	11,400.0	6,656.5	1,225.4	1,099.1	9.708	ES
EXIST VERT PATRIOT #B16-23 - Wellbore #1 - Wellbore	11,500.0	6,655.6	1,231.7	1,103.6	9.611	SF
EXIST VERT PATRIOT #B16-24 - Wellbore #1 - Wellbore	263.8	245.5	1,352.5	1,351.9	2,220.207	CC
EXIST VERT PATRIOT #B16-24 - Wellbore #1 - Wellbore	10,013.9	6,644.8	1,394.4	1,302.1	15.117	ES
EXIST VERT PATRIOT #B16-24 - Wellbore #1 - Wellbore	10,200.0	6,638.7	1,415.7	1,319.9	14.786	SF
EXIST VERT PATRIOT #B16-25 - Wellbore #1 - Design #	1,219.5	1,192.1	816.6	791.1	31.980	CC
EXIST VERT PATRIOT #B16-25 - Wellbore #1 - Design #	1,400.0	1,360.4	819.2	789.0	27.098	ES
EXIST VERT PATRIOT #B16-25 - Wellbore #1 - Design #	9,000.0	6,686.3	1,068.5	868.9	5.353	SF
EXIST VERT PATRIOT #B16-6 - Wellbore #1 - Wellbore	9,543.9	6,669.0	612.6	531.0	7.512	CC, ES
EXIST VERT PATRIOT #B16-6 - Wellbore #1 - Wellbore	9,600.0	6,668.9	615.1	532.7	7.459	SF
EXIST VERT PATRIOT #B16-7 - Wellbore #1 - Wellbore	10,712.1	6,662.0	881.5	772.4	8.079	CC, ES
EXIST VERT PATRIOT #B16-7 - Wellbore #1 - Wellbore	10,800.0	6,662.5	885.8	775.1	7.996	SF
EXIST VERT PATRIOT #B16-8 - Wellbore #1 - Wellbore	12,048.5	6,640.3	892.3	748.3	6.197	CC, ES
EXIST VERT PATRIOT #B16-8 - Wellbore #1 - Wellbore	12,100.0	6,640.4	893.8	748.7	6.158	SF
EXIST VERT TREBOR B14-5 - Wellbore #1 - Wellbore #	17,735.9	6,598.0	1,356.8	1,112.2	5.547	CC, ES, SF

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

Company:	PDC ENERGY	**Local Co-ordinate Reference:**	Well SCHRUTE 1N - Slot SCHRUTE 1N
Project:	WELD COUNTY, COLORADO (TRUE)	**TVD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Reference Site:	NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)	**MD Reference:**	WELL @ 4633.0ft (Original Well Elev)
Site Error:	0.0 ft	**North Reference:**	True
Reference Well:	SCHRUTE 1N	**Survey Calculation Method:**	Minimum Curvature
Well Error:	0.0 ft	**Output errors are at**	2.00 sigma
Reference Wellbore	Wellbore #1	**Database:**	EDM
Reference Design:	PROPOSAL #1	**Offset TVD Reference:**	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NE SW SEC 16 T5N R64W 6th P.M. (SCHRUTE)						
EXIST VERT TROY 1 - Wellbore #1 - Wellbore #1	16,093.7	6,638.4	3,294.5	3,040.7	12.978	CC
EXIST VERT TROY 1 - Wellbore #1 - Wellbore #1	16,200.0	6,636.6	3,296.2	3,039.6	12.844	ES
EXIST VERT TROY 1 - Wellbore #1 - Wellbore #1	16,700.0	6,628.4	3,349.8	3,083.8	12.592	SF
SCHRUTE 10N - Wellbore #1 - PROPOSAL #1	250.0	250.0	134.9	134.1	159.229	CC, ES
SCHRUTE 10N - Wellbore #1 - PROPOSAL #1	17,700.0	17,969.5	2,390.5	1,803.5	4.072	SF
SCHRUTE 2N - Wellbore #1 - PROPOSAL #1	1,171.3	1,178.8	14.9	7.4	1.990	CC
SCHRUTE 2N - Wellbore #1 - PROPOSAL #1	17,735.9	17,651.1	266.7	-305.9	0.466	Level 1, ES, SF
SCHRUTE 3N - Wellbore #1 - PROPOSAL #1	250.0	250.0	30.0	29.1	35.393	CC
SCHRUTE 3N - Wellbore #1 - PROPOSAL #1	17,735.9	17,759.2	512.9	-82.3	0.862	Level 1, ES, SF
SCHRUTE 4N - Wellbore #1 - PROPOSAL #1	250.0	250.0	45.0	44.1	53.051	CC, ES
SCHRUTE 4N - Wellbore #1 - PROPOSAL #1	17,735.9	17,707.7	773.6	180.6	1.305	Level 3, SF
SCHRUTE 5N - Wellbore #1 - PROPOSAL #1	250.0	250.0	60.0	59.1	70.755	CC, ES
SCHRUTE 5N - Wellbore #1 - PROPOSAL #1	17,735.9	17,831.5	1,025.9	430.3	1.723	SF
SCHRUTE 6N - Wellbore #1 - PROPOSAL #1	250.0	250.0	74.8	74.0	88.329	CC, ES
SCHRUTE 6N - Wellbore #1 - PROPOSAL #1	17,735.9	17,806.0	1,285.0	690.0	2.160	SF
SCHRUTE 7N - Wellbore #1 - PROPOSAL #1	250.0	250.0	90.0	89.1	106.199	CC, ES
SCHRUTE 7N - Wellbore #1 - PROPOSAL #1	17,735.9	17,944.1	1,539.8	944.2	2.586	SF
SCHRUTE 8N - Wellbore #1 - PROPOSAL #1	250.0	250.0	104.9	104.1	123.809	CC, ES
SCHRUTE 8N - Wellbore #1 - PROPOSAL #1	17,735.9	17,975.6	1,796.6	1,201.0	3.017	SF
SCHRUTE 9N - Wellbore #1 - PROPOSAL #1	250.0	250.0	119.9	119.1	141.501	CC, ES
SCHRUTE 9N - Wellbore #1 - PROPOSAL #1	17,735.9	18,113.4	2,052.7	1,457.1	3.447	SF