



Synergy Resources Corporation

**SEC 21 T6N R66W
LEFFLER 8-21 PAD
LEFFLER 41C-23-L**

**OH
PLAN #1**

Anticollision Summary Report

27 February, 2017

Company:	Synergy Resources Corporation	Local Co-ordinate Reference:	Well LEFFLER 41C-23-L
Project:	SEC 21 T6N R66W	TVD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Reference Site:	LEFFLER 8-21 PAD	MD Reference:	GL 4747 & KB 25 @ 4773.00ft (ASSUMED)
Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41C-23-L	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Reference	PLAN #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 center-center distance of 10,000.00 ft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.45 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2/27/2017		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	17,708.87	PLAN #1 (OH)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
LEFFLER 8-21 PAD						
ADAMS I #23-19 - OH - OH	14,244.63	7,143.04	139.35	-221.48	0.386	Level 1, CC, ES, SF
ALICE M. HOFFNER #1-22 - OH - OH	8,350.18	7,161.92	557.67	272.28	1.954	CC, ES, SF
ALLES #1-23 - OH - OH	14,747.63	7,140.00	800.37	432.29	2.174	CC, ES, SF
ALLES #2-23 - OH - OH	15,038.26	7,129.82	472.52	100.53	1.270	Level 3, CC, ES, SF
BARNEY #2 - OH - OH	14,579.91	7,128.68	1,667.30	1,302.07	4.565	CC
BARNEY #2 - OH - OH	14,600.00	7,128.60	1,667.42	1,301.94	4.562	ES
BARNEY #2 - OH - OH	14,700.00	7,128.19	1,671.62	1,305.08	4.561	SF
BERRY #22-2 - OH - OH	11,076.79	7,159.87	619.84	303.28	1.958	CC, ES
BERRY #22-2 - OH - OH	11,100.00	7,159.78	620.28	303.38	1.957	SF
ELDRIDGE #2-23 - OH - OH	16,182.14	7,121.19	529.39	140.82	1.362	Level 3, CC, ES, SF
ELDRIDGE #31-23 - OH - OH	16,330.59	7,129.59	723.52	332.45	1.850	CC, ES, SF
ELDRIDGE #3-23 - OH - OH	17,523.99	7,144.75	768.37	359.02	1.877	CC, ES, SF
ELDRIDGE #4-23 - OH - OH	17,709.06	7,112.00	610.75	200.22	1.488	Level 3, CC, ES, SF
ELDRIDGE #CNE-23 - OH - OH	16,564.06	7,119.64	96.50	-297.69	0.245	Level 1, CC, ES, SF
HOOD 25N-22B-M - OH - PLAN #1	6,944.39	12,103.27	1,321.05	1,141.01	7.337	CC
HOOD 25N-22B-M - OH - PLAN #1	10,138.44	15,195.74	1,330.80	1,042.21	4.611	ES, SF
INTERMILL #1-22 - OH - GYRO-NS	10,822.21	7,133.85	543.29	448.06	5.705	CC, ES, SF
KENT #24-2 - OH - OH	17,709.06	7,139.00	1,247.78	888.26	3.471	CC, ES, SF
Kindsfater #24E-403 - OH - PLAN #1	17,709.06	8,415.11	569.31	490.01	7.179	CC, ES, SF
L&L PARTNERSHIP #22-8 - OH - OH	12,237.70	7,136.17	718.75	387.00	2.167	CC, ES, SF
L&L PARTNERSHIP #23-4G6 - OH - OH	13,731.14	7,147.12	611.27	257.79	1.729	CC, ES, SF
LEFFLER 1 #21-2 - OH - OH	6,614.13	6,573.40	1,538.80	1,281.99	5.992	CC
LEFFLER 1 #21-2 - OH - OH	6,650.00	6,609.06	1,539.68	1,281.47	5.963	ES
LEFFLER 1 #21-2 - OH - OH	6,750.00	6,707.06	1,551.47	1,289.45	5.921	SF
LEFFLER 1 C-23-L - OH - PLAN #1	940.80	937.67	38.41	28.33	3.809	CC, ES
LEFFLER 1 C-23-L - OH - PLAN #1	17,709.06	17,738.08	456.12	127.27	1.387	Level 3, SF
LEFFLER 1 N-23B-L - OH - PLAN #1	200.00	200.00	59.74	53.07	8.957	CC, ES
LEFFLER 1 N-23B-L - OH - PLAN #1	17,709.06	17,592.95	605.23	281.31	1.868	SF
LEFFLER 1 N-23C-L - OH - PLAN #1	300.00	300.00	79.78	72.90	11.590	CC, ES
LEFFLER 1 N-23C-L - OH - PLAN #1	17,709.06	17,697.69	962.77	633.47	2.924	SF
LEFFLER 26C-23-L - OH - PLAN #1	300.00	300.00	99.81	92.93	14.501	CC
LEFFLER 26C-23-L - OH - PLAN #1	400.00	400.01	99.97	92.77	13.898	ES
LEFFLER 26C-23-L - OH - PLAN #1	17,709.06	17,860.49	1,180.00	850.86	3.585	SF
LEFFLER 26N-23B-L - OH - PLAN #1	200.00	200.00	119.86	113.19	17.970	CC, ES
LEFFLER 26N-23B-L - OH - PLAN #1	17,709.06	17,718.80	1,411.77	1,081.86	4.279	SF
LEFFLER 40C-23-L - OH - PLAN #1	200.00	200.00	100.18	93.51	15.020	CC, ES
LEFFLER 40C-23-L - OH - PLAN #1	17,709.06	17,617.63	1,095.84	768.11	3.344	SF

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

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Site Error:	3.28 ft	North Reference:	True
Reference Well:	LEFFLER 41C-23-L	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 ft	Output errors are at	2.45 sigma
Reference Wellbore	OH	Database:	EDM 5000.14 Single User Db
Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
LEFFLER 8-21 PAD						
LEFFLER 41N-23C-L - OH - PLAN #1	203.30	203.30	20.03	13.36	3.001	CC
LEFFLER 41N-23C-L - OH - PLAN #1	17,709.06	17,617.71	318.34	-2.17	0.993	Level 1, ES, SF
LEFFLER 8C-23-L - OH - PLAN #1	590.76	609.33	39.47	31.41	4.896	CC
LEFFLER 8C-23-L - OH - PLAN #1	17,709.06	17,688.20	359.99	31.18	1.095	Level 2, ES, SF
LEFFLER 8N-23A-L - OH - PLAN #1	499.73	499.69	19.74	12.15	2.602	CC
LEFFLER 8N-23A-L - OH - PLAN #1	590.00	589.92	19.95	11.95	2.493	ES
LEFFLER 8N-23A-L - OH - PLAN #1	17,709.06	17,390.63	330.02	101.39	1.443	Level 3, SF
LEFFLER 8N-23B-L - OH - PLAN #1	200.00	200.00	60.11	53.44	9.013	CC, ES
LEFFLER 8N-23B-L - OH - PLAN #1	17,568.31	17,372.94	680.16	364.03	2.152	SF
LEFFLER 8N-23C-L - OH - PLAN #1	300.00	300.00	80.15	73.27	11.645	CC, ES
LEFFLER 8N-23C-L - OH - PLAN #1	17,709.06	17,600.81	850.35	523.82	2.604	SF
LEFFLER FE 20-019HN - OH - PLAN #1	5,294.26	5,208.25	833.84	787.63	18.045	CC
LEFFLER FE 20-019HN - OH - PLAN #1	5,300.00	5,212.23	833.85	787.60	18.030	ES
LEFFLER FE 20-019HN - OH - PLAN #1	5,500.00	5,350.83	841.77	794.28	17.727	SF
LEFFLER FE 20-022HC - OH - PLAN #1	5,873.92	5,793.71	775.01	723.72	15.110	CC
LEFFLER FE 20-022HC - OH - PLAN #1	5,900.00	5,812.61	775.11	723.64	15.059	ES
LEFFLER FE 20-022HC - OH - PLAN #1	7,400.00	6,948.81	896.56	835.74	14.740	SF
LEFFLER FE 20-022HN - OH - PLAN #1	5,620.23	5,536.21	816.15	767.09	16.634	CC, ES
LEFFLER FE 20-022HN - OH - PLAN #1	5,900.00	5,732.27	830.48	779.75	16.371	SF
LEFFLER FE 20-059HN - PLAN #1 - PLAN #1	7,200.00	7,143.76	763.03	700.12	12.129	SF
LEFFLER FE 20-059HN - PLAN #1 - PLAN #1	7,226.27	7,127.98	762.73	699.90	12.140	CC, ES
LEFFLER FE 20-062HC - OH - PLAN #1	7,268.59	7,238.26	466.93	403.76	7.391	CC, ES
LEFFLER FE 20-062HC - OH - PLAN #1	7,300.00	7,222.06	467.77	404.46	7.389	SF
LEFFLER FE 20-062HN - OH - PLAN #1	7,077.99	7,203.88	417.77	354.63	6.616	CC, ES, SF
LEFFLER FE 20-102HN - OH - PLAN #1	7,146.57	7,285.97	117.65	54.98	1.877	CC
LEFFLER FE 20-102HN - OH - PLAN #1	7,150.00	7,284.09	117.69	54.93	1.875	ES, SF
LEFFLER FE 20-139HC - OH - PLAN #1	7,300.00	7,280.79	154.42	94.21	2.564	ES, SF
LEFFLER FE 20-139HC - OH - PLAN #1	7,309.21	7,276.28	154.24	94.79	2.595	CC
LEFFLER FE 20-142HN - OH - OH	6,055.79	6,127.20	453.79	399.43	8.348	CC, ES
LEFFLER FE 20-142HN - OH - OH	6,200.00	6,244.66	461.44	405.78	8.291	SF
LEFFLER FE 20-179HC - OH - PLAN #1	5,922.59	6,001.20	427.08	373.73	8.006	CC, ES
LEFFLER FE 20-179HC - OH - PLAN #1	6,000.00	6,061.73	429.45	375.35	7.938	SF
LEFFLER FE 20-179HN - PLAN #1 - PLAN #1	5,549.20	5,633.28	400.81	350.37	7.947	CC, ES
LEFFLER FE 20-179HN - PLAN #1 - PLAN #1	5,600.00	5,674.71	401.89	350.91	7.883	SF
LEFFLER FE 20-182HN - OH - PLAN #1	5,169.32	5,263.72	364.67	317.30	7.698	CC, ES
LEFFLER FE 20-182HN - OH - PLAN #1	5,200.00	5,288.72	365.11	317.38	7.651	SF
LOWELL ADAMS #1-22 - OH - OH	12,227.36	7,156.21	702.36	370.06	2.114	CC, ES, SF
LOWELL ADAMS #1-23 - OH - OH	13,547.59	7,134.86	617.49	267.07	1.762	CC, ES, SF
OGILVY #1 - OH - NO SURVEYS	17,075.79	7,102.43	1,695.66	1,294.46	4.227	CC
OGILVY #1 - OH - NO SURVEYS	17,100.00	7,102.53	1,695.83	1,294.32	4.224	ES, SF
Pinnacle Park #1-14 - OH - NO SURVEYS	16,626.52	7,124.39	1,750.97	1,355.69	4.430	CC, ES
Pinnacle Park #1-14 - OH - NO SURVEYS	16,700.00	7,124.09	1,752.51	1,356.19	4.422	SF
RUTT-ADAMS HEIRS #2-22 - OH - OH	9,484.01	7,176.33	747.60	450.56	2.517	CC
RUTT-ADAMS HEIRS #2-22 - OH - OH	9,500.00	7,176.26	747.78	450.52	2.516	ES, SF
SCHAEFER #2-22 - OH - OH	12,166.97	7,133.45	1,940.46	1,609.80	5.868	CC
SCHAEFER #2-22 - OH - OH	12,200.00	7,133.32	1,940.74	1,609.66	5.862	ES
SCHAEFER #2-22 - OH - OH	12,300.00	7,132.92	1,945.01	1,612.80	5.855	SF

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Reference Design:	PLAN #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to GL 4747 & KB 25 @ 4773.00ft (ASSU

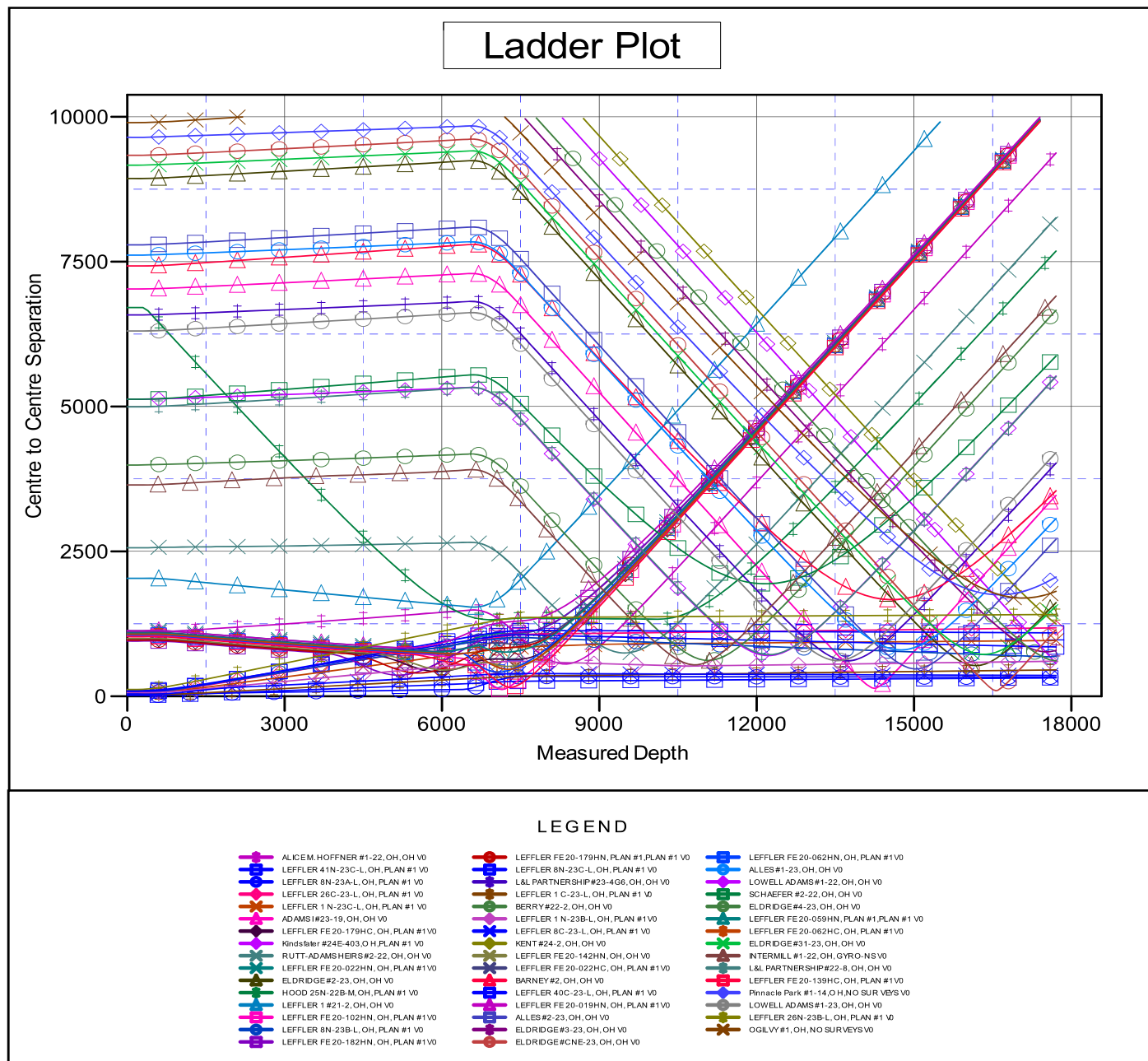
Offset Depths are relative to Offset Datum

Central Meridian is -105.5000000

Coordinates are relative to: LEFFLER 41C-23-L

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.47°



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Reference Depths are relative to GL 4747 & KB 25 @ 4773.00ft (ASSU

Offset Depths are relative to Offset Datum

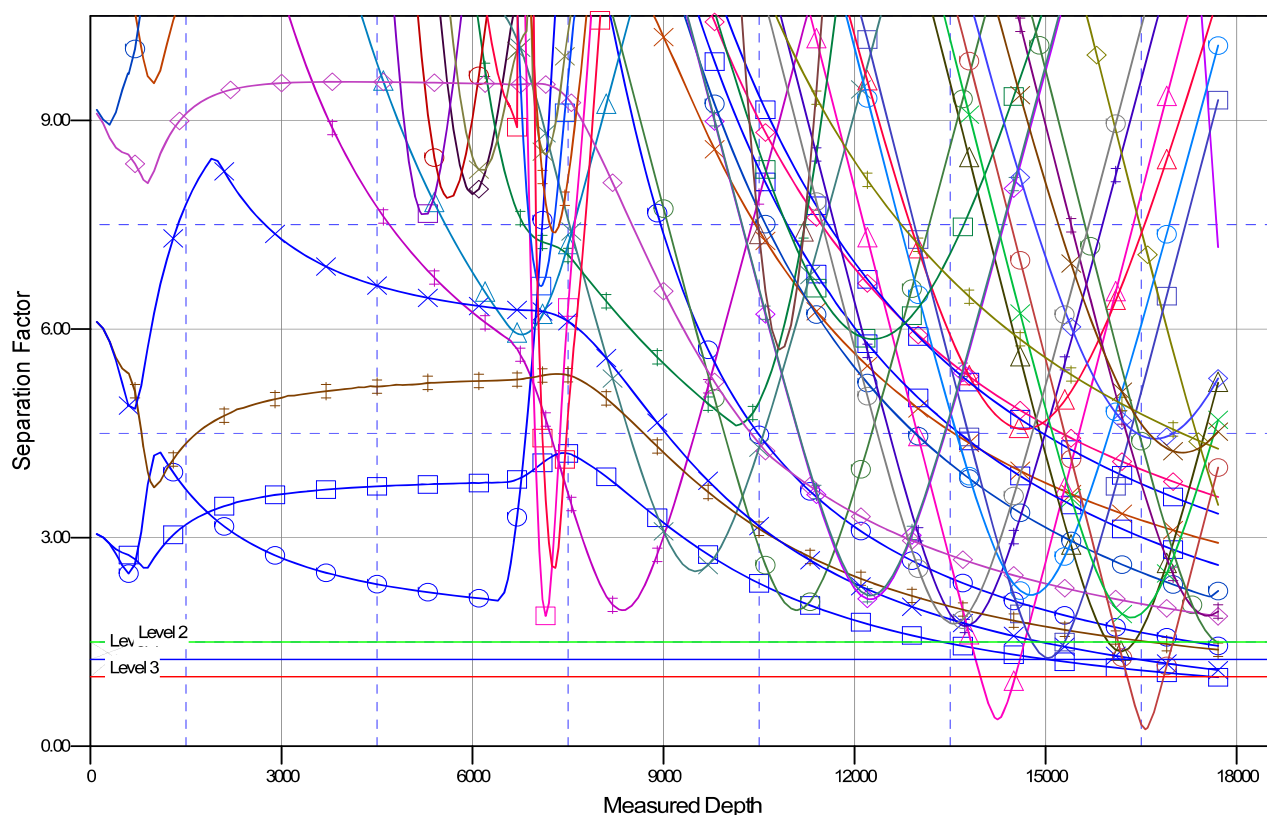
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Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.47°

Separation Factor Plot



LEGEND

ALICEM.HOFFNER #1-22, OH, OH V0	LEFFLER FE 20-179HN, PLAN #1, PLAN #1 V0	LEFFLER FE 20-062HN, OH, PLAN #1 V0
LEFFLER 41N-23C-L, OH, PLAN #1 V0	LEFFLER 8N-23C-L, OH, PLAN #1 V0	ALLES #1-23, OH, OH V0
LEFFLER 8N-23A-L, OH, PLAN #1 V0	L&L PARTNERSHIP#23-4G6, OH, OH V0	LOWELL ADAMS#1-22, OH, OH V0
LEFFLER 26C-23-L, OH, PLAN #1 V0	LEFFLER 1 C-23-L, OH, PLAN #1 V0	SCHAEFER #2-22, OH, OH V0
LEFFLER 1 N-23C-L, OH, PLAN #1 V0	BERRY #22-2, OH, OH V0	ELDRIDGE#4-23, OH, OH V0
ADAMS#23-19, OH, OH V0	LEFFLER 1 N-23B-L, OH, PLAN #1 V0	LEFFLER FE 20-059HN, PLAN #1, PLAN #1 V0
LEFFLER FE 20-179HC, OH, PLAN #1 V0	LEFFLER 8C-23-L, OH, PLAN #1 V0	LEFFLER FE 20-062HC, OH, PLAN #1 V0
KINDSFATER #24E-403, OH, PLAN #1 V0	KENT #24-2, OH, OH V0	ELDRIDGE#31-23, OH, OH V0
RUTT-ADAMSHERS#2-22, OH, OH V0	LEFFLER FE 20-142HN, OH, OH V0	INTERMILL #1-22, OH, GYRO-NS V0
LEFFLER FE 20-022HN, OH, PLAN #1 V0	LEFFLER FE 20-022HC, OH, PLAN #1 V0	L&L PARTNERSHIP#22-8, OH, OH V0
ELDRIDGE#2-23, OH, OH V0	BARNEY#2, OH, OH V0	LEFFLER FE 20-139HC, OH, PLAN #1 V0
HOOD 25N-22B-M, OH, PLAN #1 V0	LEFFLER 40C-23-L, OH, PLAN #1 V0	Pinnacle Park #1-14, OH, NO SUR VB'S V0
LEFFLER 1 #21-2, OH, OH V0	LEFFLER FE 20-019HN, OH, PLAN #1 V0	LOWELL ADAMS#1-23, OH, OH V0
LEFFLER FE 20-102HN, OH, PLAN #1 V0	ALLES#2-23, OH, OH V0	LEFFLER 26N-23B-L, OH, PLAN #1 V0
LEFFLER 8N-23B-L, OH, PLAN #1 V0	ELDRIDGE#3-23, OH, OH V0	OGILVY #1, OH, NO SURVEYS V0
LEFFLER FE 20-182HN, OH, PLAN #1 V0	ELDRIDGE#CNE-23, OH, OH V0	