

30-025-42724

Nemo Fund I, LLC

Company: Nemo Fund I, LLC
 Site: Williams State
 Well: 12-004 H
 Project: Lea County, New Mexico (NAD 27)
 Rig: Silver Oak 1



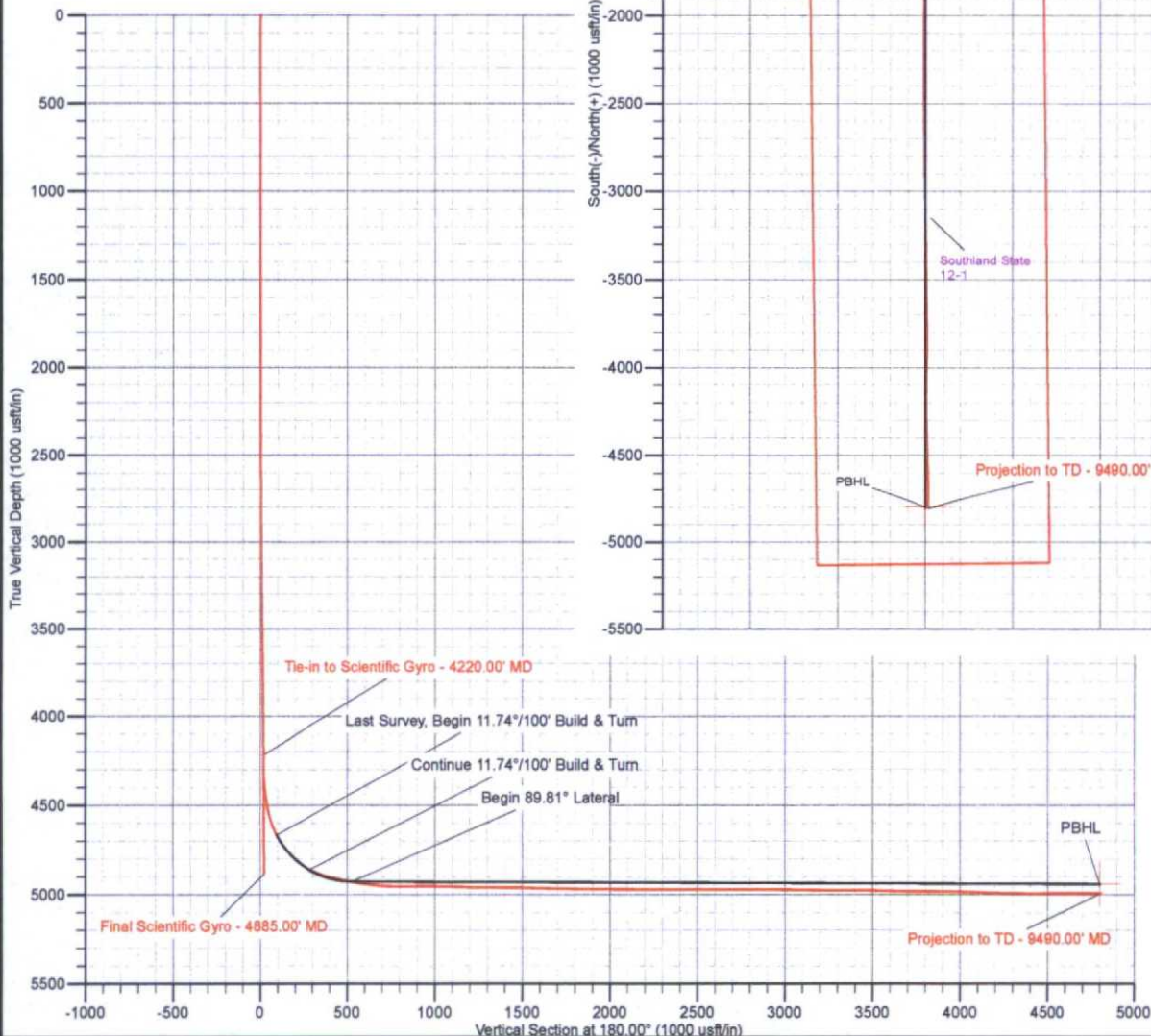
Azimuths to Grid North
 True North: -0.62°
 Magnetic North: 6.40°
 Magnetic Field
 Strength: 48964.9nT
 Dip Angle: 61.35°
 Date: 09/04/2015
 Model: BGGM2015

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
4679.00	28.70	187.40	4667.32	-94.03	-9.64	94.03	0.00	Last Survey, Begin 11.74°/100' Build & Turn
4954.04	60.00	175.44	4861.88	-283.28	-8.66	283.28	189.54	Continue 11.74°/100' Build & Turn
5210.70	89.81	180.00	4928.00	-528.06	0.37	528.06	434.56	Begin 89.81° Lateral
9482.41	89.81	180.00	4942.00	-4799.74	0.00	4799.74	4706.24	PBHL

US State Plane 1927 (Exact solution)
 New Mexico East 3001

Created By: CJH
 Date: 13/24, September 28 2015
 Plan: Design #5



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hand lines represented.

Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.

DEC 10 2015

Nemo Fund I, LLC

Lea County, New Mexico (NAD 27)

Williams State

12-004 H

Wellbore #1

Survey: Scientific Gyro

Standard Survey Report

28 September, 2015

MS Energy Services
Survey Report



Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well 12-004 H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Site:	Williams State	MD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Well:	12-004 H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	12-004 H				
Well Position	+N/-S	0.00 usft	Northing:	899,808.70 usft	Latitude: 33° 28' 6.262 N
	+E/-W	0.00 usft	Easting:	844,810.60 usft	Longitude: 103° 12' 9.583 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,988.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	09/04/15	7.02	61.35	48,965

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date	09/28/15			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
80.00	4,885.00	Scientific Gyro (Wellbore #1)	GYRO-NS	OWSG Gyrocompass Gyro	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80.00	0.22	64.14	80.00	0.07	0.14	-0.07	0.28	0.28	0.00	
170.00	0.29	99.04	170.00	0.11	0.52	-0.11	0.19	0.08	38.78	
258.00	0.40	93.72	258.00	0.05	1.05	-0.05	0.13	0.13	-6.05	
346.00	0.39	93.07	346.00	0.02	1.65	-0.02	0.01	-0.01	-0.74	
435.00	0.51	90.78	434.99	-0.01	2.35	0.01	0.14	0.13	-2.57	
529.00	0.71	94.29	528.99	-0.06	3.35	0.06	0.22	0.21	3.73	
624.00	0.71	109.98	623.98	-0.30	4.49	0.30	0.20	0.00	16.52	
719.00	0.66	81.09	718.97	-0.42	5.58	0.42	0.36	-0.05	-30.41	
813.00	0.57	51.06	812.97	-0.04	6.48	0.04	0.35	-0.10	-31.95	
908.00	0.54	138.74	907.97	-0.08	7.14	0.08	0.81	-0.03	92.29	
1,003.00	0.47	81.88	1,002.96	-0.36	7.82	0.36	0.51	-0.07	-59.85	
1,098.00	0.39	112.90	1,097.96	-0.43	8.51	0.43	0.26	-0.08	32.65	
1,193.00	0.31	61.45	1,192.96	-0.43	9.03	0.43	0.33	-0.08	-54.16	
1,288.00	0.29	116.52	1,287.96	-0.42	9.47	0.42	0.29	-0.02	57.97	

MS Energy Services
Survey Report



Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well 12-004 H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Site:	Williams State	MD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Well:	12-004 H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,383.00	0.13	118.90	1,382.96	-0.58	9.78	0.58	0.17	-0.17	2.51
1,477.00	0.07	86.20	1,476.96	-0.63	9.93	0.63	0.09	-0.06	-34.79
1,572.00	0.16	38.72	1,571.96	-0.52	10.07	0.52	0.13	0.09	-49.98
1,667.00	0.14	44.81	1,666.96	-0.33	10.24	0.33	0.03	-0.02	6.41
1,761.00	0.10	141.28	1,760.96	-0.31	10.37	0.31	0.19	-0.04	102.63
1,855.00	0.09	349.54	1,854.96	-0.31	10.41	0.31	0.20	-0.01	-161.43
1,949.00	0.06	251.06	1,948.96	-0.25	10.35	0.25	0.12	-0.03	-104.77
2,044.00	0.08	204.08	2,043.96	-0.33	10.27	0.33	0.06	0.02	-49.45
2,138.00	0.10	150.57	2,137.96	-0.46	10.29	0.46	0.09	0.02	-56.93
2,233.00	0.28	233.38	2,232.95	-0.67	10.14	0.67	0.30	0.19	87.17
2,327.00	0.28	180.19	2,326.95	-1.04	9.96	1.04	0.27	0.00	-56.59
2,422.00	0.24	177.09	2,421.95	-1.47	9.97	1.47	0.04	-0.04	-3.26
2,517.00	0.28	152.68	2,516.95	-1.87	10.08	1.87	0.12	0.04	-25.69
2,612.00	0.39	164.87	2,611.95	-2.39	10.27	2.39	0.14	0.12	12.83
2,706.00	0.25	190.85	2,705.95	-2.90	10.32	2.90	0.21	-0.15	27.64
2,801.00	0.30	176.87	2,800.95	-3.35	10.29	3.35	0.09	0.05	-14.72
2,895.00	0.51	199.71	2,894.95	-3.99	10.17	3.99	0.28	0.22	24.30
2,990.00	0.48	173.34	2,989.94	-4.78	10.07	4.78	0.24	-0.03	-27.76
3,085.00	0.60	186.12	3,084.94	-5.67	10.06	5.67	0.18	0.13	13.45
3,180.00	0.74	184.38	3,179.93	-6.78	9.96	6.78	0.15	0.15	-1.83
3,274.00	0.92	238.28	3,273.92	-7.78	9.27	7.78	0.82	0.19	57.34
3,369.00	0.99	180.08	3,368.91	-9.00	8.62	9.00	0.98	0.07	-61.26
3,463.00	0.84	179.13	3,462.90	-10.50	8.63	10.50	0.16	-0.16	-1.01
3,558.00	0.76	180.55	3,557.89	-11.83	8.64	11.83	0.09	-0.08	1.49
3,653.00	0.79	172.68	3,652.88	-13.11	8.72	13.11	0.12	0.03	-8.28
3,748.00	0.69	164.91	3,747.87	-14.31	8.95	14.31	0.15	-0.11	-8.18
3,842.00	0.63	157.19	3,841.87	-15.34	9.30	15.34	0.11	-0.06	-8.21
3,937.00	0.54	157.55	3,936.86	-16.23	9.67	16.23	0.09	-0.09	0.38
4,030.00	0.46	146.39	4,029.86	-16.95	10.04	16.95	0.14	-0.09	-12.00
4,126.00	0.46	134.94	4,125.86	-17.54	10.53	17.54	0.10	0.00	-11.93
4,220.00	0.52	138.66	4,219.85	-18.13	11.08	18.13	0.07	0.06	3.96
4,315.00	0.58	141.38	4,314.85	-18.83	11.66	18.83	0.07	0.06	2.86
4,410.00	0.57	133.26	4,409.84	-19.53	12.31	19.53	0.09	-0.01	-8.55
4,504.00	0.66	132.33	4,503.84	-20.21	13.05	20.21	0.10	0.10	-0.99
4,599.00	0.79	136.44	4,598.83	-21.05	13.90	21.05	0.15	0.14	4.33
4,694.00	0.83	130.96	4,693.82	-21.98	14.87	21.98	0.09	0.04	-5.77
4,789.00	0.73	133.01	4,788.81	-22.84	15.84	22.84	0.11	-0.11	2.16
4,885.00	0.51	144.12	4,884.81	-23.61	16.53	23.61	0.26	-0.23	11.57

Final Scientific Gyro - 4885.00' MD

MS Energy Services
Survey Report



Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well 12-004 H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Site:	Williams State	MD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Well:	12-004 H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,885.00	4,884.81	-23.61	16.53	Final Scientific Gyro - 4885.00' MD

Nemo Fund I, LLC

Lea County, New Mexico (NAD 27)

Williams State

12-004 H

Wellbore #2

Survey: MS MWD

Standard Survey Report

28 September, 2015

MS Energy Services
Survey Report



Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well 12-004 H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Site:	Williams State	MD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Well:	12-004 H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Well	12-004 H				
Well Position	+N/-S	0.00 usft	Northing:	899,808.70 usft	Latitude: 33° 28' 6.262 N
	+E/-W	0.00 usft	Easting:	844,810.60 usft	Longitude: 103° 12' 9.583 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,988.00 usft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2015	09/04/15	7.02	61.35	48,965

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	4,220.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date	09/28/15			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
80.00	4,220.00	Scientific Gyro (Wellbore #1)	GYRO-NS	OWSG Gyrocompass Gyro	
4,314.00	9,490.00	MS MWD (Wellbore #2)	MWD	OWSG MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,220.00	0.52	138.66	4,219.85	-18.13	11.08	18.13	0.00	0.00	0.00	
Tie-in to Scientific Gyro - 4220.00' MD										
4,314.00	0.60	141.40	4,313.85	-18.83	11.67	18.83	0.09	0.09	2.91	
4,351.00	4.40	198.30	4,350.81	-20.33	11.34	20.33	11.09	10.27	153.78	
4,459.00	9.60	199.30	4,457.97	-32.77	7.06	32.77	4.82	4.81	0.93	
4,490.00	9.40	199.00	4,488.54	-37.61	5.38	37.61	0.66	-0.65	-0.97	
4,522.00	11.40	198.60	4,520.01	-43.07	3.52	43.07	6.25	6.25	-1.25	
4,554.00	15.60	198.40	4,551.12	-50.16	1.16	50.16	13.13	13.13	-0.63	
4,584.00	17.80	198.60	4,579.86	-58.33	-1.58	58.33	7.34	7.33	0.67	
4,616.00	20.30	195.80	4,610.10	-68.31	-4.65	68.31	8.32	7.81	-8.75	
4,647.00	24.70	191.10	4,638.74	-79.85	-7.37	79.85	15.32	14.19	-15.16	
4,679.00	28.70	187.40	4,667.32	-94.03	-9.64	94.03	13.53	12.50	-11.56	
4,710.00	32.10	186.00	4,694.06	-109.61	-11.46	109.61	11.20	10.97	-4.52	
4,742.00	35.80	184.70	4,720.60	-127.40	-13.12	127.40	11.78	11.56	-4.06	
4,774.00	39.10	182.30	4,746.00	-146.82	-14.29	146.82	11.27	10.31	-7.50	

MS Energy Services

Survey Report



Company: Nemo Fund I, LLC
Project: Lea County, New Mexico (NAD 27)
Site: Williams State
Well: 12-004 H
Wellbore: Wellbore #2
Design: Surveys

Local Co-ordinate Reference: Well 12-004 H
TVD Reference: WELL @ 4006.00usft (Silver Oak 1)
MD Reference: WELL @ 4006.00usft (Silver Oak 1)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,806.00	42.50	180.20	4,770.22	-167.72	-14.73	167.72	11.46	10.63	-6.56
4,837.00	46.50	179.50	4,792.33	-189.44	-14.67	189.44	13.00	12.90	-2.26
4,868.00	51.20	178.30	4,812.72	-212.77	-14.22	212.77	15.44	15.16	-3.87
4,898.00	54.70	176.60	4,830.79	-236.69	-13.14	236.69	12.51	11.67	-5.67
4,930.00	58.20	176.40	4,848.48	-263.30	-11.51	263.30	10.95	10.94	-0.63
4,962.00	62.80	178.00	4,864.23	-291.11	-10.16	291.11	15.02	14.38	5.00
4,993.00	68.00	180.20	4,877.13	-319.28	-9.73	319.28	17.97	16.77	7.10
5,025.00	70.70	179.60	4,888.42	-349.22	-9.68	349.22	8.62	8.44	-1.88
5,056.00	72.70	179.60	4,898.15	-378.65	-9.47	378.65	6.45	6.45	0.00
5,088.00	76.30	179.70	4,906.70	-409.48	-9.28	409.48	11.25	11.25	0.31
5,120.00	78.60	180.20	4,913.65	-440.72	-9.26	440.72	7.35	7.19	1.56
5,151.00	79.40	179.90	4,919.57	-471.15	-9.28	471.15	2.75	2.58	-0.97
5,183.00	80.00	180.20	4,925.29	-502.63	-9.31	502.63	2.09	1.88	0.94
5,214.00	80.10	180.10	4,930.65	-533.17	-9.39	533.17	0.45	0.32	-0.32
5,246.00	80.60	179.90	4,936.01	-564.71	-9.39	564.71	1.68	1.56	-0.63
5,278.00	81.10	180.40	4,941.10	-596.30	-9.47	596.30	2.20	1.56	1.56
5,310.00	81.80	180.20	4,945.86	-627.95	-9.64	627.95	2.27	2.19	-0.63
5,341.00	83.70	180.40	4,949.77	-658.70	-9.80	658.70	6.16	6.13	0.65
5,373.00	86.00	180.80	4,952.64	-690.57	-10.14	690.57	7.29	7.19	1.25
5,404.00	87.30	181.10	4,954.45	-721.51	-10.65	721.51	4.30	4.19	0.97
5,436.00	88.00	181.20	4,955.76	-753.47	-11.29	753.47	2.21	2.19	0.31
5,468.00	89.60	181.60	4,956.43	-785.46	-12.07	785.46	5.15	5.00	1.25
5,500.00	90.40	181.60	4,956.43	-817.44	-12.97	817.44	2.50	2.50	0.00
5,531.00	90.90	181.30	4,956.08	-848.43	-13.75	848.43	1.88	1.61	-0.97
5,563.00	91.30	181.70	4,955.47	-880.41	-14.59	880.41	1.77	1.25	1.25
5,595.00	89.60	177.60	4,954.74	-973.39	-14.02	973.39	4.77	-1.83	-4.41
5,751.00	89.10	177.20	4,955.81	-1,068.28	-9.71	1,068.28	0.67	-0.53	-0.42
5,845.00	87.40	177.10	4,958.68	-1,162.12	-5.04	1,162.12	1.81	-1.81	-0.11
5,940.00	88.60	180.30	4,962.00	-1,257.02	-2.89	1,257.02	3.60	1.26	3.37
6,035.00	90.40	181.10	4,962.83	-1,352.01	-4.05	1,352.01	2.07	1.89	0.84
6,129.00	89.60	180.00	4,962.83	-1,446.00	-4.95	1,446.00	1.45	-0.85	-1.17
6,224.00	89.00	179.20	4,963.99	-1,540.99	-4.29	1,540.99	1.05	-0.63	-0.84
6,318.00	87.80	180.10	4,966.62	-1,634.95	-3.71	1,634.95	1.60	-1.28	0.96
6,412.00	89.30	180.30	4,968.99	-1,728.92	-4.04	1,728.92	1.61	1.60	0.21
6,505.00	90.40	180.70	4,969.24	-1,821.91	-4.85	1,821.91	1.26	1.18	0.43
6,599.00	89.00	180.30	4,969.73	-1,915.90	-5.67	1,915.90	1.55	-1.49	-0.43
6,693.00	89.80	180.80	4,970.71	-2,009.89	-6.57	2,009.89	1.00	0.85	0.53
6,786.00	88.80	180.00	4,971.85	-2,102.88	-7.22	2,102.88	1.38	-1.08	-0.86
6,879.00	90.20	180.30	4,972.66	-2,195.87	-7.47	2,195.87	1.54	1.51	0.32
6,973.00	89.10	179.30	4,973.24	-2,289.87	-7.14	2,289.87	1.58	-1.17	-1.06
7,067.00	90.00	179.60	4,973.97	-2,383.86	-6.24	2,383.86	1.01	0.96	0.32
7,161.00	91.40	180.50	4,972.83	-2,477.85	-6.32	2,477.85	1.77	1.49	0.96
7,254.00	90.50	178.80	4,971.28	-2,570.83	-5.75	2,570.83	2.07	-0.97	-1.83

MS Energy Services
Survey Report



Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well 12-004 H
Project:	Lea County, New Mexico (NAD 27)	TVD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Site:	Williams State	MD Reference:	WELL @ 4006.00usft (Silver Oak 1)
Well:	12-004 H	North Reference:	Grid
Wellbore:	Wellbore #2	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,347.00	89.50	179.70	4,971.28	-2,663.82	-4.53	2,663.82	1.45	-1.08	0.97
7,441.00	89.20	179.60	4,972.35	-2,757.81	-3.96	2,757.81	0.34	-0.32	-0.11
7,536.00	90.00	179.50	4,973.01	-2,852.81	-3.21	2,852.81	0.85	0.84	-0.11
7,629.00	89.90	178.90	4,973.09	-2,945.80	-1.91	2,945.80	0.65	-0.11	-0.65
7,722.00	88.60	178.80	4,974.31	-3,038.77	-0.05	3,038.77	1.40	-1.40	-0.11
7,816.00	88.90	179.10	4,976.36	-3,132.73	1.67	3,132.73	0.45	0.32	0.32
7,910.00	90.30	179.00	4,977.02	-3,226.71	3.23	3,226.71	1.49	1.49	-0.11
8,003.00	89.00	179.30	4,977.59	-3,319.70	4.61	3,319.70	1.43	-1.40	0.32
8,096.00	89.50	179.50	4,978.80	-3,412.69	5.59	3,412.69	0.58	0.54	0.22
8,190.00	90.50	179.50	4,978.80	-3,506.68	6.41	3,506.68	1.06	1.06	0.00
8,284.00	87.70	178.90	4,980.28	-3,600.65	7.72	3,600.65	3.05	-2.98	-0.64
8,378.00	88.80	179.20	4,983.15	-3,694.59	9.28	3,694.59	1.21	1.17	0.32
8,471.00	90.50	179.10	4,983.72	-3,787.58	10.66	3,787.58	1.83	1.83	-0.11
8,565.00	89.30	180.20	4,983.88	-3,881.57	11.23	3,881.57	1.73	-1.28	1.17
8,658.00	88.70	181.80	4,985.51	-3,974.54	9.61	3,974.54	1.84	-0.65	1.72
8,752.00	88.40	181.70	4,987.88	-4,068.47	6.74	4,068.47	0.34	-0.32	-0.11
8,845.00	87.90	179.60	4,990.89	-4,161.41	5.68	4,161.41	2.32	-0.54	-2.26
8,939.00	88.30	178.80	4,994.00	-4,255.35	7.00	4,255.35	0.95	0.43	-0.85
9,034.00	89.40	178.70	4,995.91	-4,350.30	9.07	4,350.30	1.16	1.16	-0.11
9,128.00	90.50	178.30	4,995.99	-4,444.27	11.53	4,444.27	1.25	1.17	-0.43
9,222.00	90.80	178.80	4,994.93	-4,538.23	13.91	4,538.23	0.62	0.32	0.53
9,316.00	89.90	179.30	4,994.35	-4,632.22	15.46	4,632.22	1.10	-0.96	0.53
9,409.00	90.00	179.20	4,994.43	-4,725.21	16.68	4,725.21	0.15	0.11	-0.11
9,440.00	90.50	179.60	4,994.30	-4,756.21	17.01	4,756.21	2.07	1.61	1.29
9,490.00	90.50	179.60	4,993.86	-4,806.20	17.36	4,806.20	0.00	0.00	0.00
Projection to TD - 9490.00' MD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
4,220.00	4,219.85	-18.13	11.08	Tie-in to Scientific Gyro - 4220.00' MD
9,490.00	4,993.86	-4,806.20	17.36	Projection to TD - 9490.00' MD

Nemo Fund I, LLC
Williams State 12-004 H
Lea County, New Mexico (NAD 27)
North Reference: Grid
KB-MSL: 4006.00
Ground Level: 3988.00
Surveys

MD	INC	AZI	Course		Subsea			E/-W	X	Y	Lat	Long
			Length	TVD	Depth	N/-S	Depth					
0	0	0	0	0	0	4006	0	0	844810.6	899808.7	33° 28' 6.262 N	103° 12' 9.583 W
80	0.22	64.14	80	80	80	3926	0.067	0.138	844810.7	899808.8	33° 28' 6.262 N	103° 12' 9.582 W
170	0.29	99.04	90	169.999	3836.001	0.107	0.519	844811.1	899808.8	33° 28' 6.263 N	103° 12' 9.577 W	
258	0.4	93.72	88	257.997	3748.003	0.052	1.045	844811.6	899808.7	33° 28' 6.262 N	103° 12' 9.571 W	
346	0.39	93.07	88	345.995	3660.005	0.016	1.651	844812.2	899808.7	33° 28' 6.262 N	103° 12' 9.564 W	
435	0.51	90.78	89	434.993	3571.007	-0.006	2.349	844812.9	899808.7	33° 28' 6.261 N	103° 12' 9.555 W	
529	0.71	94.29	94	528.987	3477.013	-0.055	3.348	844813.9	899808.6	33° 28' 6.261 N	103° 12' 9.544 W	
624	0.71	109.98	95	623.98	3382.02	-0.3	4.488	844815.1	899808.4	33° 28' 6.258 N	103° 12' 9.530 W	
719	0.66	81.09	95	718.973	3287.027	-0.417	5.582	844816.2	899808.3	33° 28' 6.257 N	103° 12' 9.517 W	
813	0.57	51.06	94	812.968	3193.032	-0.039	6.481	844817.1	899808.7	33° 28' 6.261 N	103° 12' 9.507 W	
908	0.54	138.74	95	907.965	3098.035	-0.079	7.143	844817.7	899808.6	33° 28' 6.260 N	103° 12' 9.499 W	
1003	0.47	81.88	95	1002.962	3003.038	-0.36	7.824	844818.4	899808.3	33° 28' 6.257 N	103° 12' 9.491 W	
1098	0.39	112.9	95	1097.959	2908.041	-0.431	8.508	844819.1	899808.3	33° 28' 6.256 N	103° 12' 9.483 W	
1193	0.31	61.45	95	1192.958	2813.042	-0.434	9.032	844819.6	899808.3	33° 28' 6.256 N	103° 12' 9.477 W	
1288	0.29	116.52	95	1287.957	2718.043	-0.418	9.472	844820.1	899808.3	33° 28' 6.256 N	103° 12' 9.471 W	
1383	0.13	118.9	95	1382.956	2623.044	-0.578	9.782	844820.4	899808.1	33° 28' 6.255 N	103° 12' 9.468 W	
1477	0.07	86.2	94	1476.956	2529.044	-0.625	9.933	844820.5	899808.1	33° 28' 6.254 N	103° 12' 9.466 W	
1572	0.16	38.72	95	1571.956	2434.044	-0.518	10.073	844820.7	899808.2	33° 28' 6.255 N	103° 12' 9.464 W	
1667	0.14	44.81	95	1666.956	2339.044	-0.332	10.238	844820.8	899808.4	33° 28' 6.257 N	103° 12' 9.462 W	
1761	0.1	141.28	94	1760.955	2245.045	-0.315	10.37	844821	899808.4	33° 28' 6.257 N	103° 12' 9.461 W	
1855	0.09	349.54	94	1854.955	2151.045	-0.306	10.408	844821	899808.4	33° 28' 6.257 N	103° 12' 9.460 W	
1949	0.06	251.06	94	1948.955	2057.045	-0.25	10.348	844820.9	899808.4	33° 28' 6.258 N	103° 12' 9.461 W	
2044	0.08	204.08	95	2043.955	1962.045	-0.326	10.274	844820.9	899808.4	33° 28' 6.257 N	103° 12' 9.462 W	

2138	0.1	150.57	94	2137.955	1868.045	-0.458	10.288	844820.9	899808.2	33° 28'	6.256 N	103° 12'	9.462 W
2233	0.28	233.38	95	2232.955	1773.045	-0.668	10.142	844820.7	899808	33° 28'	6.254 N	103° 12'	9.464 W
2327	0.28	180.19	94	2326.954	1679.046	-1.035	9.957	844820.6	899807.7	33° 28'	6.250 N	103° 12'	9.466 W
2422	0.24	177.09	95	2421.953	1584.047	-1.466	9.966	844820.6	899807.2	33° 28'	6.246 N	103° 12'	9.466 W
2517	0.28	152.68	95	2516.952	1489.048	-1.871	10.083	844820.7	899806.8	33° 28'	6.242 N	103° 12'	9.464 W
2612	0.39	164.87	95	2611.95	1394.05	-2.389	10.274	844820.9	899806.3	33° 28'	6.237 N	103° 12'	9.462 W
2706	0.25	190.85	94	2705.949	1300.051	-2.899	10.319	844820.9	899805.8	33° 28'	6.232 N	103° 12'	9.462 W
2801	0.3	176.87	95	2800.948	1205.052	-3.351	10.294	844820.9	899805.3	33° 28'	6.227 N	103° 12'	9.462 W
2895	0.51	199.71	94	2894.945	1111.055	-3.991	10.166	844820.8	899804.7	33° 28'	6.221 N	103° 12'	9.464 W
2990	0.48	173.34	95	2989.942	1016.058	-4.784	10.069	844820.7	899803.9	33° 28'	6.213 N	103° 12'	9.465 W
3085	0.6	186.12	95	3084.938	921.062	-5.674	10.063	844820.7	899803	33° 28'	6.204 N	103° 12'	9.465 W
3180	0.74	184.38	95	3179.931	826.069	-6.78	9.963	844820.6	899801.9	33° 28'	6.193 N	103° 12'	9.466 W
3274	0.92	238.28	94	3273.923	732.077	-7.782	9.274	844819.9	899800.9	33° 28'	6.184 N	103° 12'	9.475 W
3369	0.99	180.08	95	3368.911	637.089	-9.004	8.624	844819.2	899799.7	33° 28'	6.172 N	103° 12'	9.483 W
3463	0.84	179.13	94	3462.899	543.101	-10.505	8.634	844819.2	899798.2	33° 28'	6.157 N	103° 12'	9.483 W
3558	0.76	180.55	95	3557.89	448.11	-11.831	8.638	844819.2	899796.9	33° 28'	6.144 N	103° 12'	9.483 W
3653	0.79	172.68	95	3652.881	353.119	-13.111	8.716	844819.3	899795.6	33° 28'	6.131 N	103° 12'	9.482 W
3748	0.69	164.91	95	3747.874	258.126	-14.313	8.948	844819.5	899794.4	33° 28'	6.119 N	103° 12'	9.479 W
3842	0.63	157.19	94	3841.867	164.133	-15.336	9.296	844819.9	899793.4	33° 28'	6.109 N	103° 12'	9.475 W
3937	0.54	157.55	95	3936.862	69.138	-16.231	9.669	844820.3	899792.5	33° 28'	6.100 N	103° 12'	9.471 W
4030	0.46	146.39	93	4029.859	-23.859	-16.947	10.043	844820.6	899791.7	33° 28'	6.093 N	103° 12'	9.467 W
4126	0.46	134.94	96	4125.856	-119.856	-17.54	10.529	844821.1	899791.2	33° 28'	6.087 N	103° 12'	9.461 W
4220	0.52	138.66	94	4219.852	-213.852	-18.127	11.078	844821.7	899790.6	33° 28'	6.081 N	103° 12'	9.455 W
4314	0.6	141.4	94	4313.848	-307.848	-18.832	11.667	844822.3	899789.9	33° 28'	6.074 N	103° 12'	9.448 W
4351	4.4	198.3	37	4350.808	-344.808	-20.331	11.342	844821.9	899788.4	33° 28'	6.059 N	103° 12'	9.452 W
4459	9.6	199.3	108	4457.966	-451.966	-32.772	7.062	844817.7	899775.9	33° 28'	5.937 N	103° 12'	9.504 W
4490	9.4	199	31	4488.541	-482.541	-37.606	5.383	844816	899771.1	33° 28'	5.889 N	103° 12'	9.524 W
4522	11.4	198.6	32	4520.014	-514.014	-43.074	3.524	844814.1	899765.6	33° 28'	5.835 N	103° 12'	9.547 W
4554	15.6	198.4	32	4551.123	-545.123	-50.158	1.156	844811.8	899758.5	33° 28'	5.765 N	103° 12'	9.576 W
4584	17.8	198.6	30	4579.856	-573.856	-58.332	-1.581	844809	899750.4	33° 28'	5.685 N	103° 12'	9.609 W
4616	20.3	195.8	32	4610.101	-604.101	-68.311	-4.653	844805.9	899740.4	33° 28'	5.586 N	103° 12'	9.647 W
4647	24.7	191.1	31	4638.737	-632.737	-79.848	-7.365	844803.2	899728.8	33° 28'	5.473 N	103° 12'	9.680 W
4679	28.7	187.4	32	4667.321	-661.321	-94.035	-9.643	844801	899714.7	33° 28'	5.332 N	103° 12'	9.709 W
4710	32.1	186	31	4694.055	-688.055	-109.61	-11.463	844799.1	899699.1	33° 28'	5.178 N	103° 12'	9.733 W

4742	35.8	184.7	32	4720.596	-714.596	-127.4	-13.12	844797.5	899681.3	33° 28' 5.003 N	103° 12' 9.754 W
4774	39.1	182.3	32	4745.998	-739.998	-146.82	-14.292	844796.3	899661.9	33° 28' 4.811 N	103° 12' 9.771 W
4806	42.5	180.2	32	4770.22	-764.22	-167.72	-14.735	844795.9	899641	33° 28' 4.604 N	103° 12' 9.779 W
4837	46.5	179.5	31	4792.326	-786.326	-189.44	-14.673	844795.9	899619.3	33° 28' 4.389 N	103° 12' 9.781 W
4868	51.2	178.3	31	4812.72	-806.72	-212.77	-14.216	844796.4	899595.9	33° 28' 4.158 N	103° 12' 9.778 W
4898	54.7	176.6	30	4830.793	-824.793	-236.69	-13.143	844797.5	899572	33° 28' 3.922 N	103° 12' 9.769 W
4930	58.2	176.4	32	4848.476	-842.476	-263.3	-11.514	844799.1	899545.4	33° 28' 3.658 N	103° 12' 9.753 W
4962	62.8	178	32	4864.23	-858.23	-291.11	-10.163	844800.4	899517.6	33° 28' 3.383 N	103° 12' 9.741 W
4993	68	180.2	31	4877.131	-871.131	-319.28	-9.732	844800.9	899489.4	33° 28' 3.104 N	103° 12' 9.739 W
5025	70.7	179.6	32	4888.415	-882.415	-349.22	-9.678	844800.9	899459.5	33° 28' 2.808 N	103° 12' 9.742 W
5056	72.7	179.6	31	4898.149	-892.149	-378.65	-9.473	844801.1	899430	33° 28' 2.517 N	103° 12' 9.744 W
5088	76.3	179.7	32	4906.699	-900.699	-409.48	-9.285	844801.3	899399.2	33° 28' 2.212 N	103° 12' 9.745 W
5120	78.6	180.2	32	4913.652	-907.652	-440.72	-9.258	844801.3	899368	33° 28' 1.903 N	103° 12' 9.749 W
5151	79.4	179.9	31	4919.567	-913.567	-471.15	-9.284	844801.3	899337.5	33° 28' 1.602 N	103° 12' 9.753 W
5183	80	180.2	32	4925.288	-919.288	-502.63	-9.312	844801.3	899306.1	33° 28' 1.290 N	103° 12' 9.758 W
5214	80.1	180.1	31	4930.645	-924.645	-533.17	-9.392	844801.2	899275.5	33° 28' 0.988 N	103° 12' 9.763 W
5246	80.6	179.9	32	4936.009	-930.009	-564.71	-9.392	844801.2	899244	33° 28' 0.676 N	103° 12' 9.767 W
5278	81.1	180.4	32	4941.098	-935.098	-596.31	-9.475	844801.1	899212.4	33° 28' 0.364 N	103° 12' 9.772 W
5310	81.8	180.2	32	4945.855	-939.855	-627.95	-9.64	844801	899180.7	33° 28' 0.051 N	103° 12' 9.778 W
5341	83.7	180.4	31	4949.767	-943.767	-658.7	-9.801	844800.8	899150	33° 27' 59.747 N	103° 12' 9.783 W
5373	86	180.8	32	4952.639	-946.639	-690.57	-10.135	844800.5	899118.1	33° 27' 59.431 N	103° 12' 9.792 W
5404	87.3	181.1	31	4954.451	-948.451	-721.51	-10.648	844799.9	899087.2	33° 27' 59.125 N	103° 12' 9.802 W
5436	88	181.2	32	4955.763	-949.763	-753.47	-11.29	844799.3	899055.2	33° 27' 58.809 N	103° 12' 9.813 W
5468	89.6	181.6	32	4956.433	-950.433	-785.46	-12.072	844798.5	899023.2	33° 27' 58.493 N	103° 12' 9.827 W
5500	90.4	181.6	32	4956.433	-950.433	-817.44	-12.965	844797.6	898991.3	33° 27' 58.176 N	103° 12' 9.841 W
5531	90.9	181.3	31	4956.081	-950.081	-848.43	-13.75	844796.8	898960.3	33° 27' 57.870 N	103° 12' 9.854 W
5563	91.3	181.7	32	4955.467	-949.467	-880.42	-14.587	844796	898928.3	33° 27' 57.554 N	103° 12' 9.868 W
5656	89.6	177.6	93	4954.736	-948.736	-973.39	-14.019	844796.6	898835.3	33° 27' 56.634 N	103° 12' 9.874 W
5751	89.1	177.2	95	4955.814	-949.814	-1068.3	-9.71	844800.9	898740.4	33° 27' 55.695 N	103° 12' 9.835 W
5845	87.4	177.1	94	4958.685	-952.685	-1162.1	-5.038	844805.6	898646.6	33° 27' 54.766 N	103° 12' 9.792 W
5940	88.6	180.3	95	4962.001	-956.001	-1257	-2.886	844807.7	898551.7	33° 27' 53.827 N	103° 12' 9.779 W
6035	90.4	181.1	95	4962.83	-956.83	-1352	-4.046	844806.6	898456.7	33° 27' 52.887 N	103° 12' 9.805 W
6129	89.6	180	94	4962.83	-956.83	-1446	-4.948	844805.6	898362.7	33° 27' 51.958 N	103° 12' 9.827 W
6224	89	179.2	95	4963.991	-957.991	-1541	-4.285	844806.3	898267.7	33° 27' 51.018 N	103° 12' 9.832 W

6318	87.8	180.1	94	4966.615	-960.615	-1634.9	-3.711	844806.9	898173.7	33° 27'	50.088 N	103° 12' 9.837 W
6412	89.3	180.3	94	4968.994	-962.994	-1728.9	-4.039	844806.6	898079.8	33° 27'	49.159 N	103° 12' 9.853 W
6505	90.4	180.7	93	4969.237	-963.237	-1821.9	-4.851	844805.7	897986.8	33° 27'	48.239 N	103° 12' 9.874 W
6599	89	180.3	94	4969.729	-963.729	-1915.9	-5.671	844804.9	897892.8	33° 27'	47.309 N	103° 12' 9.896 W
6693	89.8	180.8	94	4970.714	-964.714	-2009.9	-6.573	844804	897798.8	33° 27'	46.380 N	103° 12' 9.919 W
6786	88.8	180	93	4971.85	-965.85	-2102.9	-7.223	844803.4	897705.8	33° 27'	45.460 N	103° 12' 9.939 W
6879	90.2	180.3	93	4972.661	-966.661	-2195.9	-7.466	844803.1	897612.8	33° 27'	44.540 N	103° 12' 9.953 W
6973	89.1	179.3	94	4973.236	-967.236	-2289.9	-7.138	844803.5	897518.8	33° 27'	43.610 N	103° 12' 9.962 W
7067	90	179.6	94	4973.974	-967.974	-2383.9	-6.236	844804.4	897424.8	33° 27'	42.680 N	103° 12' 9.963 W
7161	91.4	180.5	94	4972.826	-966.826	-2477.9	-6.318	844804.3	897330.8	33° 27'	41.750 N	103° 12' 9.976 W
7254	90.5	178.8	93	4971.284	-965.284	-2570.8	-5.749	844804.8	897237.9	33° 27'	40.830 N	103° 12' 9.981 W
7347	89.5	179.7	93	4971.284	-965.284	-2663.8	-4.532	844806.1	897144.9	33° 27'	39.910 N	103° 12' 9.979 W
7441	89.2	179.6	94	4972.35	-966.35	-2757.8	-3.958	844806.6	897050.9	33° 27'	38.980 N	103° 12' 9.984 W
7536	90	179.5	95	4973.013	-967.013	-2852.8	-3.212	844807.4	896955.9	33° 27'	38.041 N	103° 12' 9.988 W
7629	89.9	178.9	93	4973.094	-967.094	-2945.8	-1.913	844808.7	896862.9	33° 27'	37.121 N	103° 12' 9.984 W
7722	88.6	178.8	93	4974.312	-968.312	-3038.8	-0.047	844810.6	896769.9	33° 27'	36.201 N	103° 12' 9.974 W
7816	88.9	179.1	94	4976.362	-970.362	-3132.7	1.675	844812.3	896676	33° 27'	35.271 N	103° 12' 9.966 W
7910	90.3	179	94	4977.018	-971.018	-3226.7	3.233	844813.8	896582	33° 27'	34.341 N	103° 12' 9.959 W
8003	89	179.3	93	4977.586	-971.586	-3319.7	4.613	844815.2	896489	33° 27'	33.421 N	103° 12' 9.955 W
8096	89.5	179.5	93	4978.804	-972.804	-3412.7	5.587	844816.2	896396	33° 27'	32.501 N	103° 12' 9.956 W
8190	90.5	179.5	94	4978.804	-972.804	-3506.7	6.407	844817	896302	33° 27'	31.571 N	103° 12' 9.958 W
8284	87.7	178.9	94	4980.28	-974.28	-3600.7	7.719	844818.3	896208	33° 27'	30.641 N	103° 12' 9.955 W
8378	88.8	179.2	94	4983.151	-977.151	-3694.6	9.277	844819.9	896114.1	33° 27'	29.712 N	103° 12' 9.948 W
8471	90.5	179.1	93	4983.719	-977.719	-3787.6	10.656	844821.3	896021.1	33° 27'	28.792 N	103° 12' 9.944 W
8565	89.3	180.2	94	4983.883	-977.883	-3881.6	11.23	844821.8	895927.1	33° 27'	27.862 N	103° 12' 9.949 W
8658	88.7	181.8	93	4985.506	-979.506	-3974.5	9.608	844820.2	895834.2	33° 27'	26.943 N	103° 12' 9.980 W
8752	88.4	181.7	94	4987.885	-981.885	-4068.5	6.738	844817.3	895740.2	33° 27'	26.014 N	103° 12' 10.026 W
8845	87.9	179.6	93	4990.887	-984.887	-4161.4	5.683	844816.3	895647.3	33° 27'	25.094 N	103° 12' 10.051 W
8939	88.3	178.8	94	4994.004	-988.004	-4255.3	6.995	844817.6	895553.4	33° 27'	24.165 N	103° 12' 10.047 W
9034	89.4	178.7	95	4995.911	-989.911	-4350.3	9.067	844819.7	895458.4	33° 27'	23.225 N	103° 12' 10.035 W
9128	90.5	178.3	94	4995.993	-989.993	-4444.3	11.528	844822.1	895364.4	33° 27'	22.296 N	103° 12' 10.018 W
9222	90.8	178.8	94	4994.926	-988.926	-4538.2	13.906	844824.5	895270.5	33° 27'	21.366 N	103° 12' 10.002 W
9316	89.9	179.3	94	4994.352	-988.352	-4632.2	15.465	844826.1	895176.5	33° 27'	20.436 N	103° 12' 9.996 W
9409	90	179.2	93	4994.433	-988.433	-4725.2	16.682	844827.3	895083.5	33° 27'	19.516 N	103° 12' 9.993 W

9440	90.5	179.6	31	4994.298	-988.298	-4756.2	17.007	844827.6	895052.5	33° 27' 19.209 N	103° 12' 9.993 W
9490	90.5	179.6	50	4993.862	-987.862	-4806.2	17.356	844828	895002.5	33° 27' 18.715 N	103° 12' 9.996 W