



30-015-43826

I Mike Cook certify that I am employed by VES Survey International. That I did on the day(s) of 12/10/16 through 12/10/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 496.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador for the Jim Tom Lontos Well # 221H API # 30-015-43826 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

Mike Cook

Mike Cook
Service Technician
VES Survey International

MINI OIL CONSERVATION
ARTESIA DISTRICT

MAR 06 2017

RECEIVED



Company: MATADOR RESOURCES
Lease/Well: JIM TOM LONTOS/221H

Rig Name: PATTERSON 274

State/County: NEW MEXICO/EDDY

VS-Azi: 0.13 Degrees

Latitude: 32.27007, Longitude: -104.13371

Grid North = True North -0.11 degs (NAD 27)

Grid Correction Applied = -0.11 degs

VES SURVEY

Depth Reference : RKB=28 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: run1-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 12/15/2016 / 15:25

VES Survey International
Midland, Texas
432-563-5444

Surveyor: Michael Cook
Jim Tom Lontos 221H / API 30-015-43826

WATER OIL CONSERVATION
ARTESIA DISTRICT

MAR 06 2017

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
116.00	0.16	32.42	116.00	0.14	0.09	0.14	0.16	32.42	0.14
211.00	0.34	1.53	211.00	0.53	0.17	0.53	0.56	17.41	0.23
306.00	0.68	9.46	306.00	1.37	0.27	1.37	1.40	11.04	0.36
401.00	0.90	347.14	400.99	2.65	0.19	2.65	2.66	4.17	0.40
496.00	1.75	333.51	495.96	4.68	-0.62	4.68	4.72	352.45	0.95



VES Survey International
Midland, Texas
432-563-5444

Surveyor: Michael Cook
Jim Tom Lontos 221H / API 30-015-43826

VES SURVEY

5

Depth=496.0, Inc=1.8, AzG=333.5

-S/+N

0

Depth=0.0, Inc=0.0, AzG=0.0

-W/+E

5

PRODIRECTIONAL

JIM OIL CONSERVATION
ARTESIA DISTRICT

MAR 06 2017

RECEIVED



Jim Tom Lontos 30-23S-28E RB #221H
Eddy County, NM

January 16, 2017

Job No. LNM5129516

Prodirectional

Survey Completion Report

January 16, 2017

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 06 2017

RECEIVED



Operator Name: Matador Resources
Well Name: Jim Tom Lontos 30-23S-28E RB #221H
County/Parish: Eddy County,
State: NM
Rig Name: Patterson 274
Job Number: LNM5129516

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	603' MD – 15,313' MD	15,361' MD	12/11/16 – 12/30/16	MWD-OWSG

Sincerely,

Mike Coats

Mike Coats
Well Planning
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com



Matador Resources

Eddy County, NM
Jim Tom Lontos-Charlie Sweeney Pad
Jim Tom Lontos 30 RB #221H
OH

Survey: ProDirectional

Survey Report

16 January, 2017

NEW MEXICO OIL CONSERVATION
ARTESIA DISTRICT

MAR 06 2017

RECEIVED





ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Jim Tom Lontos-Charlie Sweeney Pad
Well: Jim Tom Lontos 30 RB #221H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well Jim Tom Lontos 30 RB #221H
TVD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
MD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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

Site	Jim Tom Lontos-Charlie Sweeney Pad		
Site Position:		Northings:	462,027.00 usft
From:	Map	Easting:	561,810.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 12.255 N
		Longitude:	104° 8' 0.077 W
		Grid Convergence:	0.11 °

Well	Jim Tom Lontos 30 RB #221H		
Well Position	+N/-S +E/-W	Northings: Easting:	462,027.00 usft 561,810.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 16' 12.255 N
		Longitude:	104° 8' 0.077 W
		Ground Level:	3,118.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Field Strength (nT)
	HDGM	12/10/2016	48,157.20
		Declination (°)	Dip Angle (°)
		7.42	60.10

Design	MWD		
Audit Notes:			
Version:	1.0	Phase:	Tie On Depth:
		ACTUAL	0.00
Vertical Section:		Depth From (TVD) (usft)	Direction (°)
		0.00	0.13
		+N/-S (usft)	+E/-W (usft)
		0.00	0.00



Company: Matador Resources
Project: Eddy County, NM
Site: Jim Tom Lontos-Charlie Sweeney Pad
Well: Jim Tom Lontos 30 RB #221H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Jim Tom Lontos 30 RB #221H
Well @ 3147.00usft (GL: 3118' + KFS
Well @ 3147.00usft (GL: 3118' + KFS
Grid
Minimum Curvature
WellPlanner1

Survey Program		Date		12/30/2016							
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description					
116.00	496.00	Survey #1 (OH)		GYD_DP_MS		Gyrodata gyro-compassing and drop					
603.00	15,361.00	Survey #2 (OH)		MWD - OWSG		MWD - OWSG					
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	462,027.00	561,810.00	
116.00	0.16	32.42	116.00	0.14	0.14	0.14	0.09	0.16	462,027.14	561,810.09	
211.00	0.34	1.53	211.00	0.53	0.53	0.53	0.17	17.32	462,027.53	561,810.17	
306.00	0.68	9.46	306.00	1.37	1.37	1.37	0.27	10.99	462,028.37	561,810.27	
401.00	0.90	347.14	400.99	2.65	2.65	2.65	0.19	2.66	462,029.65	561,810.19	
496.00	1.75	333.51	495.96	4.68	4.68	4.68	-0.62	4.72	462,031.68	561,809.38	
603.00	1.60	338.30	602.91	7.52	7.52	7.53	-1.90	7.76	462,034.53	561,808.10	
Pro MWD First Survey: 603' MD											
695.00	1.30	343.00	694.88	9.71	9.72	9.72	-2.68	10.08	462,036.72	561,807.32	
787.00	0.30	272.00	786.88	10.72	10.73	10.73	-3.23	11.20	462,037.73	561,806.77	
878.00	0.80	216.50	877.87	10.21	10.22	10.22	-3.84	10.92	462,037.22	561,806.16	
974.00	0.80	231.00	973.86	9.25	9.26	9.26	-4.76	10.42	462,036.26	561,805.24	
1,069.00	0.50	241.00	1,068.86	8.63	8.64	8.64	-5.64	10.32	462,035.64	561,804.36	
1,164.00	1.60	188.50	1,163.84	7.12	7.13	7.13	-6.20	9.45	462,034.13	561,803.80	
1,259.00	3.70	180.30	1,258.73	2.74	2.75	2.75	-6.41	6.98	462,029.75	561,803.59	
1,355.00	5.80	180.40	1,354.40	-5.21	-5.19	-5.19	-6.46	8.29	462,021.81	561,803.54	
1,450.00	6.80	180.60	1,448.82	-15.63	-15.62	-15.62	-6.55	16.94	462,011.38	561,803.45	
1,545.00	6.80	181.00	1,543.16	-26.88	-26.87	-26.87	-6.71	27.69	462,000.13	561,803.29	
1,640.00	6.70	177.30	1,637.50	-38.04	-38.03	-38.03	-6.55	38.59	461,988.97	561,803.45	
1,735.00	7.90	175.20	1,731.73	-50.08	-50.07	-50.07	-5.74	50.40	461,976.93	561,804.26	
1,830.00	10.20	171.20	1,825.54	-64.90	-64.89	-64.89	-3.91	65.01	461,962.11	561,806.09	



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Jim Tom Lontos-Charlie Sweeney Pad
Well: Jim Tom Lontos 30 RB #221H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well Jim Tom Lontos 30 RB #221H
TVD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
MD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
	1,925.00	11.00	169.60	1,918.92	-82.12	-82.11	-0.98	82.12	180.69	461,944.89	561,809.02
	2,021.00	10.50	168.40	2,013.23	-99.69	-99.69	2.43	99.72	178.61	461,927.31	561,812.43
	2,116.00	10.80	166.20	2,106.60	-116.80	-116.82	6.29	116.98	176.92	461,910.18	561,816.29
	2,211.00	10.60	163.60	2,199.94	-133.82	-133.84	10.88	134.28	175.35	461,893.16	561,820.88
	2,307.00	9.60	167.40	2,294.46	-150.09	-150.12	15.12	150.88	174.25	461,876.88	561,825.12
	2,399.00	8.92	168.95	2,385.26	-164.57	-164.61	18.16	165.61	173.70	461,862.39	561,828.16
330' HL Xing: 2399' MD											
	2,402.00	8.90	169.00	2,388.22	-165.03	-165.07	18.25	166.07	173.69	461,861.93	561,828.25
	2,452.00	8.40	166.80	2,437.65	-172.38	-172.42	19.82	173.56	173.44	461,854.58	561,829.82
	2,585.00	8.00	163.50	2,569.29	-190.70	-190.75	24.67	192.34	172.63	461,836.25	561,834.67
	2,680.00	9.10	173.30	2,663.24	-204.49	-204.55	27.42	206.38	172.36	461,822.45	561,837.42
	2,775.00	9.90	176.10	2,756.94	-220.10	-220.16	28.86	222.05	172.53	461,806.84	561,838.86
	2,871.00	9.90	175.60	2,851.51	-236.56	-236.63	30.05	238.53	172.76	461,790.37	561,840.05
	2,966.00	9.80	184.30	2,945.11	-252.76	-252.83	30.07	254.61	173.22	461,774.17	561,840.07
	3,061.00	10.20	189.10	3,038.67	-269.13	-269.20	28.13	270.67	174.03	461,757.80	561,838.13
	3,157.00	9.90	188.80	3,133.20	-285.69	-285.75	25.53	286.89	174.90	461,741.25	561,835.53
	3,252.00	9.20	188.80	3,226.88	-301.27	-301.32	23.12	302.21	175.61	461,725.68	561,833.12
	3,346.00	8.80	188.80	3,319.72	-315.81	-315.86	20.87	316.54	176.22	461,711.14	561,830.87
	3,442.00	10.50	181.50	3,414.36	-331.81	-331.86	19.51	332.43	176.63	461,695.14	561,829.51
	3,537.00	11.10	179.20	3,507.68	-349.61	-349.66	19.42	350.19	176.82	461,677.34	561,829.42
	3,632.00	10.60	179.10	3,600.98	-367.49	-367.54	19.68	368.06	176.93	461,659.46	561,829.68
	3,727.00	10.20	178.30	3,694.42	-384.63	-384.68	20.07	385.20	177.01	461,642.32	561,830.07
	3,823.00	9.70	177.90	3,788.98	-401.21	-401.26	20.62	401.79	177.06	461,625.74	561,830.62
	3,918.00	9.60	178.30	3,882.63	-417.13	-417.17	21.14	417.71	177.10	461,609.83	561,831.14
	4,014.00	9.40	178.70	3,977.32	-432.96	-433.01	21.56	433.55	177.15	461,593.99	561,831.56
	4,109.00	9.50	179.00	4,071.03	-448.56	-448.61	21.87	449.14	177.21	461,578.39	561,831.87
	4,204.00	9.60	177.40	4,164.71	-464.31	-464.36	22.37	464.90	177.24	461,562.64	561,832.37



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Jim Tom Lontos-Charlie Sweeney Pad
Well: Jim Tom Lontos 30 RB #22-1H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well Jim Tom Lontos 30 RB #22-1H
TVD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
MD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
	4,300.00	9.60	178.10	4,259.37	-480.30	-480.36	23.00	480.91	177.26	461,546.64	561,833.00
	4,395.00	9.50	178.40	4,353.05	-496.06	-496.11	23.48	496.67	177.29	461,530.89	561,833.48
	4,490.00	9.10	178.80	4,446.80	-511.40	-511.46	23.85	512.02	177.33	461,515.54	561,833.85
	4,585.00	8.40	178.60	4,540.70	-525.85	-525.91	24.18	526.46	177.37	461,501.09	561,834.18
	4,680.00	7.80	180.40	4,634.75	-539.23	-539.29	24.31	539.84	177.42	461,487.71	561,834.31
	4,776.00	7.10	180.70	4,729.94	-551.68	-551.74	24.19	552.27	177.49	461,475.26	561,834.19
	4,871.00	6.60	180.90	4,824.26	-563.01	-563.07	24.03	563.58	177.56	461,463.93	561,834.03
	4,966.00	6.50	180.30	4,918.64	-573.85	-573.90	23.92	574.40	177.61	461,453.10	561,833.92
	5,061.00	6.30	180.60	5,013.05	-584.44	-584.49	23.83	584.98	177.66	461,442.51	561,833.83
	5,156.00	6.10	183.70	5,107.49	-594.69	-594.74	23.45	595.20	177.74	461,432.26	561,833.45
	5,251.00	5.60	185.60	5,202.00	-604.34	-604.39	22.68	604.82	177.85	461,422.61	561,832.88
	5,347.00	5.80	185.80	5,297.52	-613.83	-613.88	21.73	614.26	177.97	461,413.12	561,831.73
	5,442.00	7.20	174.30	5,391.91	-624.53	-624.58	21.83	624.96	178.00	461,402.42	561,831.83
	5,537.00	7.40	170.70	5,486.14	-636.49	-636.54	23.41	636.97	177.89	461,390.46	561,833.41
	5,632.00	7.10	169.50	5,580.38	-648.29	-648.35	25.47	648.85	177.75	461,378.65	561,835.47
	5,727.00	6.70	169.20	5,674.69	-659.50	-659.57	27.58	660.14	177.61	461,367.43	561,837.58
	5,823.00	5.20	176.90	5,770.18	-669.35	-669.41	28.87	670.03	177.53	461,357.59	561,838.87
	5,918.00	4.10	178.70	5,864.86	-677.04	-677.11	29.18	677.74	177.53	461,349.89	561,839.18
	6,014.00	2.30	164.90	5,960.71	-682.33	-682.40	29.76	683.05	177.50	461,344.60	561,839.76
	6,109.00	1.10	165.90	6,055.67	-685.05	-685.12	30.47	685.80	177.45	461,341.88	561,840.47
	6,204.00	1.20	197.10	6,150.65	-686.89	-686.96	30.40	687.63	177.47	461,340.04	561,840.40
	6,300.00	0.80	200.10	6,246.63	-688.48	-688.55	29.88	689.20	177.52	461,338.45	561,839.88
	6,395.00	0.40	201.70	6,341.63	-689.41	-689.48	29.53	690.11	177.55	461,337.52	561,839.53
	6,490.00	0.50	260.80	6,436.63	-689.79	-689.85	29.00	690.46	177.59	461,337.15	561,839.00
	6,585.00	0.50	260.40	6,531.62	-689.92	-689.99	28.18	690.56	177.66	461,337.01	561,838.18
	6,680.00	1.50	159.40	6,626.61	-691.16	-691.22	28.21	691.80	177.66	461,335.78	561,838.21
	6,776.00	2.00	148.70	6,722.57	-693.76	-693.83	29.52	694.46	177.56	461,333.17	561,839.52



ProDirectional Survey Report



Company: Matador Resources
Project: Eddy County, NM
Site: Jim Tom Lontos-Charlie Sweeney Pad
Well: Jim Tom Lontos 30 RB #221H
Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well Jim Tom Lontos 30 RB #221H
TVD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Databases: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
6,871.00	1.70	143.50	6,817.52	-696.31	-696.38	31.22	697.08	177.43	461,330.62	561,841.22	
6,966.00	1.70	165.00	6,912.48	-698.80	-698.87	32.42	699.62	177.34	461,328.13	561,842.42	
7,061.00	1.70	184.30	7,007.43	-701.56	-701.64	32.68	702.40	177.33	461,325.36	561,842.68	
7,157.00	2.00	196.90	7,103.38	-704.59	-704.66	32.09	705.39	177.39	461,322.34	561,842.09	
7,252.00	2.40	204.20	7,198.31	-707.99	-708.06	30.79	708.73	177.51	461,318.94	561,840.79	
7,348.00	2.30	199.40	7,294.23	-711.64	-711.71	29.33	712.32	177.64	461,315.29	561,839.33	
7,443.00	1.20	206.30	7,389.19	-714.34	-714.40	28.25	714.96	177.74	461,312.60	561,838.25	
7,538.00	1.50	211.60	7,484.16	-716.29	-716.35	27.16	716.87	177.83	461,310.65	561,837.16	
7,633.00	2.10	228.10	7,579.11	-718.52	-718.58	25.21	719.02	177.99	461,308.42	561,835.21	
7,728.00	2.00	241.10	7,674.05	-720.49	-720.54	22.47	720.89	178.21	461,306.46	561,832.47	
7,823.00	1.60	236.50	7,769.01	-722.03	-722.07	19.91	722.35	178.42	461,304.93	561,829.91	
7,918.00	1.80	230.10	7,863.97	-723.72	-723.76	17.66	723.98	178.60	461,303.24	561,827.66	
8,014.00	1.80	228.70	7,959.92	-725.69	-725.72	15.37	725.89	178.79	461,301.28	561,825.37	
8,109.00	1.70	228.40	8,054.87	-727.61	-727.64	13.19	727.76	178.96	461,299.36	561,823.19	
8,204.00	1.80	235.40	8,149.83	-729.40	-729.43	10.91	729.51	179.14	461,297.57	561,820.91	
8,300.00	0.50	242.80	8,245.81	-730.45	-730.47	9.30	730.53	179.27	461,296.53	561,819.30	
8,395.00	0.70	194.80	8,340.80	-731.20	-731.22	8.78	731.28	179.31	461,295.78	561,818.78	
8,490.00	0.30	125.30	8,435.80	-731.91	-731.93	8.84	731.98	179.31	461,295.07	561,818.84	
8,586.00	0.50	131.30	8,531.80	-732.33	-732.35	9.36	732.41	179.27	461,294.65	561,819.36	
8,681.00	0.70	178.00	8,626.79	-733.18	-733.20	9.69	733.27	179.24	461,293.80	561,819.69	
8,776.00	0.70	206.70	8,721.79	-734.28	-734.30	9.45	734.36	179.26	461,292.70	561,819.45	
8,872.00	0.20	27.50	8,817.78	-734.66	-734.68	9.26	734.74	179.28	461,292.32	561,819.26	
8,967.00	1.00	42.80	8,912.78	-733.90	-733.92	9.90	733.99	179.23	461,293.08	561,819.90	
9,062.00	0.80	53.10	9,007.77	-732.89	-732.92	10.99	733.00	179.14	461,294.08	561,820.99	
9,157.00	0.80	53.10	9,102.76	-732.09	-732.12	12.05	732.22	179.06	461,294.88	561,822.05	
9,253.00	0.60	56.80	9,198.75	-731.41	-731.44	13.01	731.56	178.98	461,295.56	561,823.01	
9,348.00	0.60	63.60	9,293.75	-730.92	-730.95	13.87	731.08	178.91	461,296.05	561,823.87	



ProDirectional Survey Report



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Wellbore: OH
Design: MWD

Local Co-ordinate Reference: Well Jim Tom Lontos 30 RB #221H
TVD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
MD Reference: Well @ 3147.00usft (GL: 3118' + KB: 29' (Pat274))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Databases: WellPlanner1

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
	9,443.00	0.60	73.80	9,388.74	-730.55	-730.59	14.80	730.74	178.84	461,296.41	561,824.80
	9,539.00	0.50	84.40	9,484.74	-730.37	-730.41	15.70	730.58	178.77	461,296.59	561,825.70
	9,568.00	0.30	81.40	9,513.74	-730.35	-730.38	15.90	730.56	178.75	461,296.62	561,825.90
	9,642.00	0.10	127.70	9,587.73	-730.36	-730.39	16.14	730.57	178.73	461,296.61	561,826.14
	9,738.00	1.90	347.80	9,683.72	-728.85	-728.89	15.87	729.06	178.75	461,298.11	561,825.87
	9,769.00	6.10	340.80	9,714.64	-726.80	-726.83	15.22	726.99	178.80	461,300.17	561,825.22
	9,801.00	9.30	343.50	9,746.34	-722.71	-722.75	13.92	722.88	178.90	461,304.25	561,823.92
	9,832.00	12.30	348.40	9,776.79	-717.08	-717.11	12.55	717.22	179.00	461,309.89	561,822.55
	9,864.00	15.60	350.00	9,807.84	-709.50	-709.53	11.12	709.62	179.10	461,317.47	561,821.12
	9,896.00	19.00	350.50	9,838.39	-700.13	-700.15	9.51	700.22	179.22	461,326.85	561,819.51
	9,928.00	22.10	350.40	9,868.35	-689.06	-689.08	7.64	689.12	179.36	461,337.92	561,817.64
	9,960.00	25.40	348.40	9,897.64	-676.40	-676.41	5.26	676.44	179.55	461,350.59	561,815.26
	9,992.00	28.90	347.30	9,926.11	-662.14	-662.14	2.18	662.15	179.81	461,364.86	561,812.18
	10,023.00	32.40	349.30	9,952.77	-646.67	-646.67	-1.01	646.67	180.09	461,380.33	561,808.99
	10,055.00	36.10	348.40	9,979.22	-629.01	-629.01	-4.50	629.02	180.41	461,397.99	561,805.50
	10,087.00	39.90	350.40	10,004.43	-609.66	-609.64	-8.11	609.70	180.76	461,417.36	561,801.89
	10,119.00	43.90	353.30	10,028.25	-588.52	-588.49	-11.12	588.60	181.08	461,438.51	561,798.88
	10,150.00	46.10	355.40	10,050.17	-566.71	-566.68	-13.27	566.84	181.34	461,460.32	561,796.73
	10,182.00	46.50	354.60	10,072.28	-543.67	-543.64	-15.28	543.85	181.61	461,483.36	561,794.72
	10,214.00	47.20	354.30	10,094.16	-520.44	-520.40	-17.54	520.70	181.93	461,506.60	561,792.46
	10,246.00	50.20	352.70	10,115.28	-496.56	-496.52	-20.27	496.93	182.34	461,530.48	561,789.73
	10,278.00	54.80	352.80	10,134.80	-471.43	-471.38	-23.47	471.96	182.85	461,555.62	561,786.53
	10,309.00	58.50	352.70	10,151.88	-445.78	-445.72	-26.73	446.52	183.43	461,581.28	561,783.27
	10,341.00	61.10	351.70	10,167.98	-418.39	-418.32	-30.49	419.43	184.17	461,608.68	561,779.51
	10,373.00	63.30	351.80	10,182.90	-390.39	-390.31	-34.55	391.84	185.06	461,636.69	561,775.45
	10,405.00	65.80	351.80	10,196.65	-361.80	-361.72	-38.67	363.78	186.10	461,665.28	561,771.33
	10,436.00	68.70	351.90	10,208.64	-333.51	-333.42	-42.72	336.14	187.30	461,693.58	561,767.28



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Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey										
MD (uoft)	Inc (°)	Azi (azimuth) (°)	TVD (uoft)	V. Sec (uoft)	N/S (uoft)	E/W (uoft)	Closure Distance (uoft)	Closure Azimuth (°)	Northing (uoft)	Easting (uoft)
10,468.00	69.40	352.10	10,220.08	-303.93	-303.83	-46.88	307.42	188.77	461,723.17	561,763.12
10,500.00	69.40	351.80	10,231.34	-274.28	-274.17	-51.08	278.88	190.55	461,752.83	561,758.92
10,532.00	69.70	351.40	10,242.52	-244.63	-244.51	-55.46	250.72	192.78	461,782.49	561,754.54
10,564.00	70.20	351.90	10,253.49	-214.90	-214.76	-59.82	222.94	195.56	461,812.24	561,750.18
10,595.00	70.60	351.80	10,263.89	-186.00	-185.85	-63.96	196.55	198.99	461,841.15	561,746.04
10,627.00	74.90	352.00	10,273.38	-155.76	-155.61	-68.27	169.92	203.69	461,871.39	561,741.73
10,647.00	75.90	353.20	10,278.42	-136.57	-136.41	-70.76	153.67	207.42	461,890.59	561,739.24
10,718.00	80.80	353.70	10,292.75	-67.53	-67.35	-78.68	103.57	229.44	461,959.65	561,731.32
10,750.00	84.10	353.60	10,296.96	-36.01	-35.83	-82.19	89.66	246.45	461,991.17	561,727.81
10,813.00	88.30	355.40	10,301.13	26.53	26.73	-88.21	92.17	286.86	462,053.73	561,721.79
10,907.00	91.60	0.60	10,301.21	120.42	120.63	-91.49	151.40	322.82	462,147.63	561,718.51
11,002.00	90.30	4.20	10,299.64	215.31	215.51	-87.52	232.60	337.90	462,242.51	561,722.48
11,096.00	86.30	2.80	10,302.43	309.09	309.27	-81.78	319.90	345.19	462,336.27	561,728.22
11,190.00	84.90	2.20	10,309.64	402.73	402.90	-77.69	410.33	349.09	462,429.90	561,732.31
11,285.00	85.40	2.20	10,317.67	497.33	497.49	-74.06	502.98	351.53	462,524.49	561,735.94
11,379.00	89.30	1.80	10,322.01	591.16	591.32	-70.78	595.54	353.17	462,618.32	561,739.22
11,474.00	89.10	1.60	10,323.34	686.11	686.27	-67.96	689.62	354.34	462,713.27	561,742.04
11,568.00	88.80	1.00	10,325.06	780.08	780.23	-65.83	783.00	355.18	462,807.23	561,744.17
11,662.00	88.30	359.20	10,327.44	874.04	874.19	-65.67	876.66	355.70	462,901.19	561,744.33
11,756.00	91.10	358.20	10,327.93	968.00	968.16	-67.80	970.53	355.99	462,995.16	561,742.20
11,851.00	90.40	358.40	10,326.69	1,062.94	1,063.11	-70.62	1,065.45	356.20	463,090.11	561,739.38
11,945.00	91.00	358.90	10,325.54	1,156.90	1,157.07	-72.83	1,159.36	356.40	463,184.07	561,737.17
12,039.00	91.50	359.70	10,323.49	1,250.87	1,251.04	-73.98	1,253.23	356.62	463,278.04	561,736.02
12,133.00	90.20	359.60	10,322.10	1,344.85	1,345.03	-74.55	1,347.09	356.83	463,372.03	561,735.45
12,227.00	91.40	359.10	10,320.78	1,438.83	1,439.01	-75.62	1,441.00	356.99	463,466.01	561,734.38
12,322.00	91.70	359.60	10,318.21	1,533.79	1,533.97	-76.70	1,535.89	357.14	463,560.97	561,733.30
12,417.00	89.20	359.30	10,317.47	1,628.77	1,628.95	-77.61	1,630.80	357.27	463,655.95	561,732.39



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Survey	MD (uoft)	Inc (°)	Azi (azimuth) (°)	TVD (uoft)	V. Sec (uoft)	N/S (uoft)	E/W (uoft)	Closure Distance (uoft)	Closure Azimuth (°)	Northing (uoft)	Easting (uoft)
	12,511.00	88.30	0.90	10,319.52	1,722.75	1,722.93	-77.45	1,724.67	357.43	463,749.93	561,732.55
	12,606.00	87.70	359.80	10,322.83	1,817.69	1,817.87	-76.87	1,819.49	357.58	463,844.87	561,733.13
	12,700.00	87.10	358.90	10,327.10	1,911.58	1,911.76	-77.93	1,913.35	357.67	463,938.76	561,732.07
	12,794.00	87.60	358.20	10,331.45	2,005.44	2,005.63	-80.31	2,007.24	357.71	464,032.63	561,729.69
	12,888.00	90.60	358.30	10,332.92	2,099.37	2,099.56	-83.18	2,101.21	357.73	464,126.56	561,726.82
	12,983.00	89.70	357.90	10,332.67	2,194.31	2,194.51	-86.33	2,196.21	357.75	464,221.51	561,723.67
	13,077.00	86.50	355.10	10,335.79	2,288.05	2,288.26	-92.06	2,290.11	357.70	464,315.26	561,717.94
	13,172.00	91.30	355.90	10,337.61	2,382.69	2,382.92	-98.51	2,385.00	357.61	464,409.92	561,710.49
	13,267.00	93.10	357.80	10,333.97	2,477.46	2,477.70	-104.72	2,479.91	357.58	464,504.70	561,705.28
	13,361.00	91.70	1.30	10,330.03	2,571.35	2,571.60	-105.46	2,573.76	357.65	464,598.60	561,704.54
	13,456.00	91.00	1.10	10,327.79	2,666.31	2,666.55	-103.47	2,668.56	357.78	464,693.55	561,706.53
	13,550.00	90.20	1.60	10,326.81	2,760.28	2,760.52	-101.26	2,762.38	357.90	464,787.52	561,708.74
	13,645.00	88.40	358.10	10,327.97	2,855.26	2,855.49	-101.51	2,857.30	357.96	464,882.49	561,708.49
	13,739.00	89.40	0.00	10,329.77	2,949.22	2,949.46	-103.06	2,951.26	358.00	464,976.46	561,706.94
	13,834.00	90.30	2.40	10,330.02	3,044.19	3,044.43	-101.07	3,046.11	358.10	465,071.43	561,708.93
	13,928.00	91.20	4.30	10,328.79	3,138.03	3,138.25	-95.57	3,139.71	358.26	465,165.25	561,714.43
	14,023.00	86.00	0.20	10,331.11	3,232.88	3,233.10	-91.84	3,234.40	358.37	465,260.10	561,718.16
	14,118.00	87.30	0.40	10,336.66	3,327.72	3,327.93	-91.35	3,329.19	358.43	465,354.93	561,718.65
	14,212.00	90.20	1.50	10,338.71	3,421.67	3,421.89	-89.79	3,423.06	358.50	465,448.89	561,720.21
	14,307.00	91.70	1.10	10,337.14	3,516.64	3,516.85	-87.63	3,517.94	358.57	465,543.85	561,722.37
	14,401.00	92.00	2.70	10,334.10	3,610.54	3,610.74	-84.52	3,611.73	358.66	465,637.74	561,725.48
	14,496.00	93.30	3.10	10,329.71	3,705.33	3,705.52	-79.72	3,706.37	358.77	465,732.52	561,730.28
	14,590.00	96.30	4.20	10,321.85	3,798.81	3,798.99	-73.76	3,799.70	358.89	465,825.99	561,736.24
	14,684.00	94.90	5.20	10,312.67	3,892.06	3,892.22	-66.09	3,892.78	359.03	465,919.22	561,743.91
	14,779.00	90.50	2.60	10,308.20	3,986.72	3,986.86	-59.64	3,987.31	359.14	466,013.86	561,750.36
	14,874.00	90.00	2.00	10,307.78	4,081.65	4,081.78	-55.83	4,082.17	359.22	466,108.78	561,754.17
	14,968.00	91.10	0.90	10,306.88	4,175.62	4,175.75	-53.45	4,176.09	359.27	466,202.75	561,756.55



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
15,063.00	92.20	2.50	10,304.15	4,270.54	4,270.66	-50.64	4,270.96	359.32	466,297.66	561,759.36
15,157.00	93.60	0.90	10,299.39	4,364.37	4,364.49	-47.85	4,364.76	359.37	466,391.49	561,762.15
15,252.00	93.30	1.20	10,293.67	4,459.19	4,459.31	-46.11	4,459.54	359.41	466,486.31	561,763.89
15,269.00	92.94	0.78	10,292.75	4,476.16	4,476.28	-45.82	4,476.51	359.41	466,503.28	561,764.18
330' HL Xing: 15269' MD										
15,313.00	92.00	359.70	10,290.85	4,520.12	4,520.24	-45.63	4,520.47	359.42	466,547.24	561,764.37
Last Survey: 15313' MD, 10290.85' TVD										
15,361.00	92.00	359.70	10,289.18	4,568.09	4,568.21	-45.88	4,568.44	359.42	466,595.21	561,764.12
PTB: 15361' MD, 10289.18' TVD										

Design Annotations				Local Coordinates	
Measured Depth (usft)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Comment	
603.00	602.91	7.53	-1.90	Pro MWD First Survey: 603' MD	
2,399.00	2,385.26	-164.61	18.16	330' HL Xing: 2399' MD	
15,269.00	10,292.75	4,476.28	-45.82	330' HL Xing: 15269' MD	
15,313.00	10,290.85	4,520.24	-45.63	Last Survey: 15313' MD, 10290.85' TVD	
15,361.00	10,289.18	4,568.21	-45.88	PTB: 15361' MD, 10289.18' TVD	