



Project: Eddy County
Site: Domino "AOJ" Federal Com
Well: #10H
Wellbore: OH
Plan: Design #4 (#10H/OH)



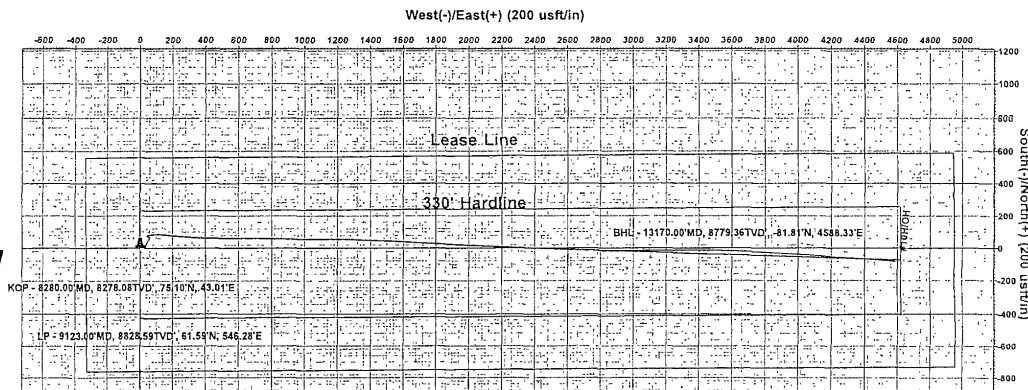
Azimuths to Grid North
True North: -0.23°
Magnetic North: 7.54°

Magnetic Field
Strength: 48857.0uT
Dip Angle: 60.55°
Date: 5/23/2011
Model: IGRF2010

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PROJECT DETAILS: Eddy County
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

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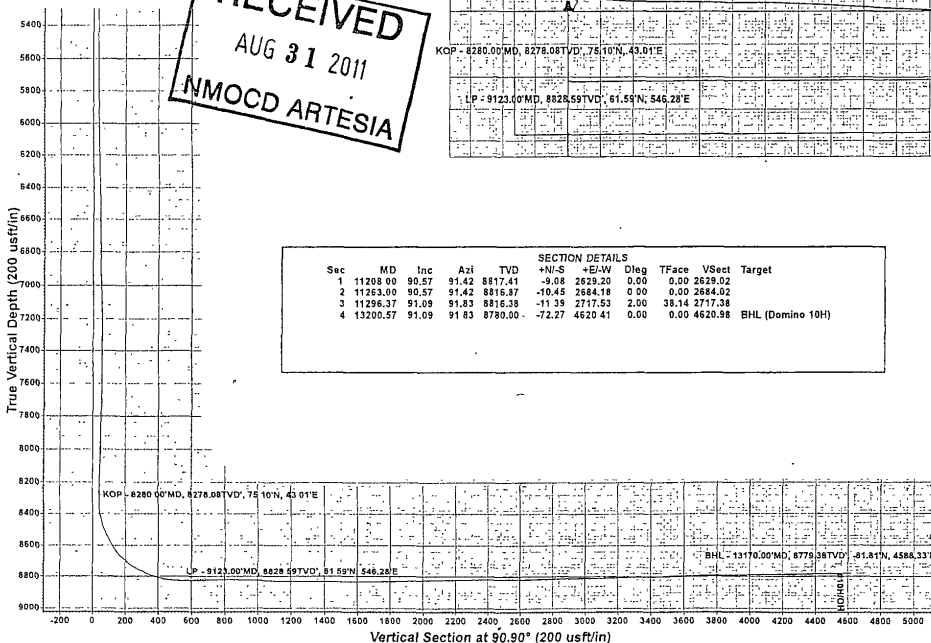


SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Deg	TFace	VSeet Target
1	11208.00	90.57	91.42	8817.41	-9.08	2629.20	0.00	0.00	2629.02
2	11263.00	90.57	91.42	8816.87	-10.45	2684.18	0.00	0.00	2684.02
3	11296.37	91.09	91.83	8816.38	-11.39	2717.53	2.00	38.14	2717.38
4	13200.57	91.09	91.83	8780.00	-72.27	4620.41	0.00	0.00	4620.98 BHL (Domino 10H)

WELL DETAILS: #10H						
Ground Elevation: 3478.00						
RKB Elevation: KB=18' @ 3496.00usft (Original Well Elev)						
Rig Name: Original Well Elev						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	608982.956	674975.329	32° 40' 24.196 N	103° 53' 56.488 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL (Domino 10H)	8780.00	-72.27	4620.41	608910.692	678595.743	Point

30-015-38385



Plan Design #4 (#10H/OH)			
Created By: Nate Bingham	Date: 8/14, June 21 2011	Checked:	Date:



Yates Petroleum Corp.

Eddy County

Domino "AOJ" Federal Com

#10H

OH

Design: OH

Pathfinder X&Y Report

21 June, 2011

PATHFINDER

A Schlumberger Company



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Pathfinder X&Y Report



Company:	Yates Petroleum Corp.	Local Co-ordinate Reference:	Well #10H
Project:	Eddy County	TVD Reference:	KB=18' @ 3496.00usft (Original Well Elev)
Site:	Domino "AOJ" Federal Com	MD Reference:	KB=18' @ 3496.00usft (Original Well Elev)
Well:	#10H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project:	Eddy County		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Domino "AOJ" Federal Com			
Site Position:		Northing:	607,558.768 usft	Latitude:	32° 40' 10.089 N
From:	Map	Easting:	675,317.168 usft	Longitude:	103° 53' 52.558 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.24 °

Well:	#10H					
Well Position	+N-S	0.00 usft	Northing:	608,982.958 usft	Latitude:	32° 40' 24.196 N
	+E-W	0.00 usft	Easting:	674,975.329 usft	Longitude:	103° 53' 56.488 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,478.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/23/2011	7.78	60.55	48,857

Design:		OH			
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	90.90	



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Pathfinder X&Y Report

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Company	Yates Petroleum Corp.	Local Co-ordinate Reference	Well #10H
Project	Eddy County	TVD Reference	KB=18' @ 3496.00usft (Original Well Elev)
Site	Domino "AOJ" Federal Com	MD Reference	KB=18' @ 3496.00usft (Original Well Elev)
Well	#10H	North Reference	Grid
Wellbore	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database	EDM 5000.1 Single User Db

Survey Program	Date: 6/21/2011			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	8,280.00	Survey #1 - GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
8,315.00	13,170.00	Survey #2 - MWD (OH)	MWD	MWD - Standard

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northings (usft)	Easting (usft)
0.00	0.00	0.00	0.00	-3,496.00	0.00	0.00	0.00	0.00	608,982.96	674,975.33
200.00	0.25	345.55	200.00	-3,296.00	0.42	-0.11	-0.12	0.12	608,983.38	674,975.22
400.00	0.25	303.49	400.00	-3,096.00	1.09	-0.58	-0.60	0.09	608,984.04	674,974.75
600.00	0.25	102.42	600.00	-2,896.00	1.23	-0.52	-0.54	0.25	608,984.19	674,974.81
800.00	0.25	45.36	800.00	-2,696.00	1.45	0.22	0.19	0.12	608,984.40	674,975.55
1,000.00	0.25	44.30	999.99	-2,496.01	2.06	0.83	0.80	0.00	608,985.02	674,976.16
1,200.00	0.75	63.24	1,199.99	-2,296.01	2.97	2.31	2.26	0.26	608,985.92	674,977.63
1,400.00	1.25	39.11	1,399.96	-2,096.04	5.25	4.85	4.77	0.32	608,988.21	674,980.18
1,600.00	2.25	47.97	1,599.86	-1,896.14	9.57	9.14	8.99	0.52	608,992.53	674,984.47
1,800.00	3.25	59.83	1,799.63	-1,696.37	15.05	16.96	16.72	0.57	608,998.01	674,992.29
2,000.00	2.25	67.80	1,999.40	-1,496.60	19.38	25.50	25.19	0.53	609,002.34	675,000.83
2,200.00	1.75	99.39	2,199.28	-1,296.72	20.37	32.15	31.82	0.60	609,003.32	675,007.47
2,400.00	1.00	169.33	2,399.23	-1,096.77	18.15	35.48	35.19	0.85	609,001.11	675,010.81
2,600.00	1.25	192.26	2,599.19	-896.81	14.30	35.34	35.11	0.25	608,997.26	675,010.67
2,800.00	0.75	213.20	2,799.16	-696.84	11.08	34.16	33.98	0.31	608,994.04	675,009.49
3,000.00	1.00	212.14	2,999.14	-496.86	8.50	32.52	32.38	0.13	608,991.46	675,007.85
3,200.00	0.75	214.08	3,199.12	-296.88	5.94	30.85	30.76	0.13	608,988.90	675,006.18
3,400.00	0.50	233.96	3,399.11	-96.89	4.35	29.42	29.34	0.16	608,987.30	675,004.74
3,600.00	0.25	305.90	3,599.10	103.10	4.09	28.36	28.29	0.24	608,987.05	675,003.69
3,800.00	0.25	282.94	3,799.10	303.10	4.44	27.58	27.50	0.05	608,987.40	675,002.91
4,000.00	0.00	0.00	3,999.10	503.10	4.54	27.15	27.08	0.12	608,987.50	675,002.48



Pathfinder
Pathfinder X&Y Report

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Company	Yates Petroleum Corp.	Local Co-ordinate Reference	Well #10H
Project	Eddy County	TVD Reference	KB=18' @ 3496.00usft (Original Well Elev)
Site	Domino "AOJ" Federal Com	MDI Reference	KB=18' @ 3496.00usft (Original Well Elev)
Well	#10H	North Reference	Grid
Wellbore	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database	EDM 5000.1 Single User Db

MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
4,200.00	0.25	9.01	4,199.10	703.10	4.97	27.22	27.14	0.12	608,987.93	675,002.55
4,400.00	0.50	15.05	4,399.09	903.09	6.24	27.52	27.41	0.13	608,989.20	675,002.84
4,600.00	0.75	5.09	4,599.08	1,103.08	8.39	27.86	27.72	0.14	608,991.35	675,003.19
4,800.00	0.50	28.13	4,799.07	1,303.07	10.46	28.39	28.22	0.17	608,993.42	675,003.72
5,000.00	1.00	24.17	4,999.05	1,503.05	12.83	29.51	29.31	0.25	608,995.78	675,004.84
5,200.00	1.00	27.24	5,199.02	1,703.02	15.97	31.03	30.77	0.03	608,998.93	675,006.35
5,400.00	1.25	22.28	5,398.98	1,902.98	19.54	32.65	32.34	0.13	609,002.50	675,007.98
5,600.00	1.00	35.56	5,598.95	2,102.95	22.98	34.49	34.13	0.18	609,005.94	675,009.82
5,800.00	1.00	23.60	5,798.91	2,302.91	26.00	36.21	35.80	0.10	609,008.95	675,011.54
6,000.00	1.00	30.63	5,998.88	2,502.88	29.10	37.80	37.34	0.06	609,012.06	675,013.12
6,200.00	1.00	29.67	6,198.85	2,702.85	32.12	39.55	39.04	0.01	609,015.07	675,014.88
6,400.00	1.50	33.71	6,398.81	2,902.81	35.81	41.86	41.30	0.25	609,018.77	675,017.19
6,600.00	1.75	27.74	6,598.73	3,102.73	40.69	44.74	44.10	0.15	609,023.65	675,020.07
6,800.00	1.75	30.78	6,798.63	3,302.63	46.02	47.72	47.00	0.05	609,028.98	675,023.05
7,000.00	2.00	37.82	6,998.53	3,502.53	51.40	51.43	50.62	0.17	609,034.36	675,026.76
7,200.00	2.25	28.85	7,198.39	3,702.39	57.59	55.46	54.55	0.21	609,040.55	675,030.79
7,400.00	1.50	349.96	7,398.29	3,902.29	63.61	56.90	55.90	0.72	609,046.57	675,032.23
7,600.00	1.00	318.14	7,598.24	4,102.24	67.49	55.28	54.22	0.42	609,050.45	675,030.61
7,800.00	1.00	291.23	7,798.21	4,302.21	69.42	52.49	51.39	0.23	609,052.38	675,027.82
8,000.00	1.50	302.33	7,998.16	4,502.16	71.45	48.65	47.52	0.28	609,054.41	675,023.98
8,200.00	1.25	301.41	8,198.11	4,702.11	73.99	44.57	43.41	0.13	609,056.95	675,019.90
8,280.00	1.50	308.59	8,278.08	4,782.08	75.10	43.01	41.83	0.38	609,058.05	675,018.34
KOP - 8280.00' MD, 8278.08' TVD, 75.10° N, 43.01° E										
8,315.00	1.58	331.24	8,313.07	4,817.07	75.80	42.42	41.23	1.74	609,058.76	675,017.75
8,346.00	1.67	4.29	8,344.06	4,848.06	76.63	42.25	41.04	2.99	609,059.59	675,017.58
8,377.00	3.69	55.44	8,375.03	4,879.03	77.65	43.10	41.88	9.50	609,060.60	675,018.43
8,408.00	8.00	70.03	8,405.86	4,909.86	78.95	45.95	44.71	14.60	609,061.91	675,021.28



Pathfinder
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Site	Domino "AOJ" Federal Com	MD Reference	KB=18' @ 3496.00usft (Original Well Elev)
Well	#10H	North Reference	Grid
Wellbore	OH	Survey Calculation Method	Minimum Curvature
Design	OH	Database	EDM 5000:1 Single User Db

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (ft/100usft)	Northing (usft)	Easting (usft)
8,439.00	12.75	75.30	8,436.35	4,940.35	80.56	51.29	50.03	15.61	609,063.51	675,026.62
8,471.00	17.41	79.35	8,467.24	4,971.24	82.34	59.42	58.12	14.92	609,065.30	675,034.75
8,501.00	20.93	82.16	8,495.57	4,999.57	83.90	69.14	67.82	12.13	609,066.86	675,044.47
8,532.00	23.83	84.18	8,524.23	5,028.23	85.29	80.86	79.52	9.68	609,068.25	675,056.19
8,563.00	26.29	86.99	8,552.31	5,056.31	86.28	93.95	92.59	8.81	609,069.24	675,069.28
8,594.00	29.11	91.04	8,579.76	5,083.76	86.51	108.35	106.98	10.93	609,069.47	675,083.68
8,625.00	32.01	93.94	8,606.45	5,110.45	85.81	124.09	122.73	10.49	609,068.76	675,099.42
8,656.00	35.35	95.34	8,632.24	5,136.24	84.41	141.22	139.88	11.06	609,067.36	675,116.55
8,687.00	39.57	96.40	8,656.85	5,160.85	82.47	159.97	158.66	13.77	609,065.43	675,135.30
8,718.00	44.85	96.31	8,679.80	5,183.80	80.17	180.66	179.38	17.03	609,063.13	675,155.99
8,750.00	49.51	95.69	8,701.54	5,205.54	77.72	204.00	202.76	14.63	609,060.68	675,179.33
8,781.00	53.29	95.25	8,720.88	5,224.88	75.41	228.11	226.90	12.24	609,058.37	675,203.44
8,812.00	56.54	94.99	8,738.70	5,242.70	73.15	253.37	252.20	10.51	609,056.11	675,228.70
8,843.00	60.06	94.99	8,754.98	5,258.98	70.86	279.64	278.50	11.35	609,053.81	675,254.97
8,874.00	63.31	94.64	8,769.69	5,273.69	68.57	306.83	305.72	10.53	609,051.53	675,282.16
8,905.00	66.13	94.02	8,782.92	5,286.92	66.45	334.78	333.70	9.27	609,049.41	675,310.11
8,936.00	69.73	93.23	8,794.57	5,298.57	64.64	363.45	362.39	11.85	609,047.60	675,338.78
8,967.00	73.07	92.18	8,804.46	5,308.46	63.26	392.79	391.75	11.24	609,046.21	675,368.12
8,999.00	75.97	91.04	8,813.00	5,317.00	62.39	423.62	422.59	9.69	609,045.35	675,398.94
9,030.00	78.61	90.51	8,819.82	5,323.82	61.98	453.85	452.83	8.68	609,044.94	675,429.18
9,061.00	82.75	90.07	8,824.83	5,328.83	61.83	484.43	483.41	13.43	609,044.79	675,459.76
9,092.00	86.70	90.25	8,827.68	5,331.68	61.74	515.30	514.27	12.76	609,044.70	675,490.63
9,123.00	89.96	90.33	8,828.59	5,332.59	61.59	546.28	545.25	10.52	609,044.54	675,521.61
LP - 9123.00' MD, 8828.59' TVD, 61.59' N, 546.28' E										
9,155.00	91.45	90.25	8,828.19	5,332.19	61.42	578.27	577.24	4.66	609,044.38	675,553.60
9,249.00	92.68	90.50	8,824.81	5,328.81	60.81	672.21	671.18	1.34	609,043.77	675,647.54
9,342.00	91.28	91.01	8,821.59	5,325.59	59.58	765.14	764.12	1.60	609,042.54	675,740.47



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Project: Eddy County
Site: Domino "AOJ" Federal Com
Well: #10H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #10H
TVD Reference: KB=18' @ 3496.00usft (Original Well Elev)
MD Reference: KB=18' @ 3496.00usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	Diag (/100usft)	Northing (usft)	Easting (usft)	
9,434.00	88.99	91.20	8,821.38	5,325.38	57.81	857.12	856.11	2.50	609,040.77	675,832.45	
9,527.00	88.37	90.62	8,823.52	5,327.52	56.33	950.08	949.09	0.91	609,039.29	675,925.41	
9,621.00	87.23	89.82	8,827.13	5,331.13	55.97	1,044.01	1,043.01	1.48	609,038.93	676,019.34	
9,714.00	88.29	90.12	8,830.76	5,334.76	56.02	1,136.94	1,135.92	1.18	609,038.98	676,112.27	
9,808.00	89.96	91.12	8,832.20	5,336.20	55.00	1,230.92	1,229.91	2.07	609,037.96	676,206.25	
9,901.00	89.87	92.16	8,832.34	5,336.34	52.34	1,323.88	1,322.90	1.12	609,035.30	676,299.21	
9,995.00	89.16	92.16	8,833.13	5,337.13	48.80	1,417.81	1,416.87	0.76	609,031.76	676,393.14	
10,088.00	89.25	92.80	8,834.42	5,338.42	44.78	1,510.71	1,509.83	0.69	609,027.73	676,486.04	
10,181.00	90.48	93.03	8,834.64	5,338.64	40.05	1,603.59	1,602.77	1.35	609,023.00	676,578.92	
10,275.00	91.10	92.87	8,833.35	5,337.35	35.21	1,697.45	1,696.70	0.68	609,018.17	676,672.78	
10,368.00	91.36	93.06	8,831.35	5,335.35	30.40	1,790.31	1,789.61	0.35	609,013.36	676,765.64	
10,461.00	91.01	93.54	8,829.43	5,333.43	25.05	1,883.13	1,882.51	0.64	609,008.01	676,858.46	
10,555.00	92.07	93.02	8,826.90	5,330.90	19.67	1,976.94	1,976.39	1.26	609,002.63	676,952.27	
10,648.00	91.45	92.25	8,824.04	5,328.04	15.40	2,069.80	2,069.31	1.06	608,998.36	677,045.13	
10,742.00	91.01	92.73	8,822.03	5,326.03	11.32	2,163.69	2,163.25	0.69	608,994.27	677,139.02	
10,835.00	90.31	92.86	8,820.95	5,324.95	6.78	2,256.57	2,256.19	0.77	608,989.74	677,231.90	
10,928.00	91.28	92.55	8,819.66	5,323.66	2.39	2,349.46	2,349.13	1.09	608,985.35	677,324.79	
11,022.00	90.67	92.59	8,818.06	5,322.06	-1.82	2,443.35	2,443.08	0.65	608,981.14	677,418.68	
11,115.00	89.78	92.47	8,817.70	5,321.70	-5.93	2,536.26	2,536.04	0.97	608,977.03	677,511.59	
11,208.00	90.57	91.42	8,817.41	5,321.41	-9.08	2,629.20	2,629.02	1.41	608,973.87	677,604.53	
11,302.00	91.19	90.93	8,815.97	5,319.97	-11.01	2,723.17	2,723.01	0.84	608,971.95	677,698.50	
11,396.00	90.84	91.17	8,814.31	5,318.31	-12.73	2,817.14	2,816.99	0.45	608,970.22	677,792.47	
11,490.00	91.36	90.36	8,812.50	5,316.50	-13.99	2,911.11	2,910.98	1.02	608,968.97	677,886.44	
11,583.00	91.01	90.05	8,810.58	5,314.58	-14.32	3,004.09	3,003.95	0.50	608,968.64	677,979.42	
11,676.00	90.92	89.50	8,809.01	5,313.01	-13.96	3,097.08	3,096.92	0.60	608,969.00	678,072.41	
11,770.00	90.75	90.09	8,807.64	5,311.64	-13.62	3,191.07	3,190.89	0.65	608,969.34	678,166.40	
11,864.00	91.19	89.96	8,806.05	5,310.05	-13.66	3,285.05	3,284.86	0.49	608,969.30	678,260.38	



Pathfinder
Pathfinder X&Y Report

PATHFINDER
A Schlumberger Company

Company:	Yates Petroleum Corp.	Local Coordinate Reference:	Well #10H:
Project:	Eddy County	TVD Reference:	KB=18' @ 3496.00usft (Original Well Elev)
Site:	Domino "AOJ" Federal Com	MD Reference:	KB=18' @ 3496.00usft (Original Well Elev)
Well:	#10H	North Reference:	Grid:
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V-Sec (usft)	D Leg (1/100usft)	Northing (usft)	Easting (usft)
	11,951.00	92.24	89.70	8,803.45	5,307.45	-13.40	3,372.01	3,371.81	1.24	608,969.56	678,347.34
	12,044.00	92.68	90.08	8,799.46	5,303.46	-13.22	3,464.93	3,464.71	0.62	608,969.73	678,440.25
	12,138.00	92.51	91.41	8,795.20	5,299.20	-14.45	3,558.82	3,558.61	1.42	608,968.51	678,534.15
	12,231.00	91.36	92.23	8,792.06	5,296.06	-17.40	3,651.72	3,651.54	1.52	608,965.56	678,627.05
	12,324.00	90.04	93.36	8,790.92	5,294.92	-21.93	3,744.60	3,744.48	1.87	608,961.03	678,719.92
	12,418.00	90.40	93.22	8,790.56	5,294.56	-27.33	3,838.44	3,838.40	0.41	608,955.63	678,813.77
	12,511.00	91.36	93.65	8,789.13	5,293.13	-32.90	3,931.26	3,931.29	1.13	608,950.06	678,906.59
	12,603.00	91.01	93.43	8,787.23	5,291.23	-38.58	4,023.07	4,023.18	0.45	608,944.38	678,998.39
	12,701.00	90.48	93.76	8,785.96	5,289.96	-44.72	4,120.86	4,121.06	0.64	608,938.24	679,096.19
	12,795.00	90.21	94.11	8,785.39	5,289.39	-51.17	4,214.64	4,214.92	0.47	608,931.79	679,189.97
	12,888.00	90.57	94.64	8,784.76	5,288.76	-58.27	4,307.37	4,307.75	0.69	608,924.69	679,282.70
	12,981.00	91.01	94.64	8,783.48	5,287.48	-65.79	4,400.05	4,400.54	0.47	608,917.17	679,375.38
	13,075.00	91.28	94.99	8,781.60	5,285.60	-73.68	4,493.70	4,494.30	0.47	608,909.28	679,469.03
	13,105.00	91.36	94.90	8,780.91	5,284.91	-76.26	4,523.58	4,524.22	0.40	608,906.70	679,498.91
	13,170.00	91.36	94.90	8,779.36	5,283.36	-81.81	4,588.33	4,589.04	0.00	608,901.14	679,563.66
BHL - 13170.00'MD, 8779.36'TVD', -81.81°N, 4588.33°E - BHL (Domino 10H)											

Design Annotations					Comment
Measured Depth (usft)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Local Coordinates	
8,280.00	8,278.08	75.10	43.01	KOP - 8280.00'MD, 8278.08'TVD', 75.10°N, 43.01°E	
9,123.00	8,828.59	61.59	546.28	LP - 9123.00'MD, 8828.59'TVD', 61.59°N, 546.28°E	
13,170.00	8,779.36	-81.81	4,588.33	BHL - 13170.00'MD, 8779.36'TVD', -81.81°N, 4588.33°E	

Checked By: _____ Approved By: _____ Date: _____