



CONCHO

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT. 16 2017

RECEIVED

COG OPERATING, LLC

Eddy /Lea County, NM (NAD27) NMEZ

Burch Keely Unit #962

#962 - Slot 296'FNL, 153'FEL Sec 24

PP : 380'FNL, 218'FWL Sec 19

30-015-44101

Lateral

PLANNED BHL 373'FNL, 10'FEL Sec19

ACTUAL BHL 377'FNL, 25'FEL Sec19



DIRECTIONAL SERVICES, LLC.



Survey Report



Company: COG OPERATING, LLC
Project: Eddy /Lea County, NM (NAD27) NMEZ
Site: Burch Keely Unit 962H
Well: #962H
Wellbore: Lateral
Design: Lateral

Local Co-ordinate Reference: Well #962H - Slot BKU962
TVD Reference: 3618+18 @ 3636.00ft (SilverOak3)
MD Reference: 3618+18 @ 3636.00ft (SilverOak3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: VON_EDM

Project	Eddy /Lea County, NM (NAD27) NMEZ		
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		

Site	Burch Keely Unit 962H			
Site Position:		Northing:	664,480.60 ft	Latitude: 32° 49' 34.851 N
From:	Map	Easting:	596,355.50 ft	Longitude: 104° 1' 10.786 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.20 in	Grid Convergence: 0.17 °

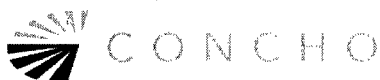
Well	#962H - Slot BKU962			
Well Position	+N/-S	0.00 ft	Northing: 664,480.60 ft	Latitude: 32° 49' 34.851 N
	+E/-W	0.00 ft	Easting: 596,355.50 ft	Longitude: 104° 1' 10.786 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 3,618.00 ft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/31/17	7.21	60.54	48,251

Design	Lateral				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	89.79	

Survey Program	Date 06/23/17				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	1,054.00	Survey #1 (Lateral)	GYD_DP_MS	Gyrodata gyro-compassing and drop	
1,254.00	10,230.00	Survey #2 (Lateral)	MWD	MWD v3: standard declination	
10,290.00	10,290.00	Survey #3 (Lateral)	Projection	Projection	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
BKU 962H SL										
100.00	0.50	114.96	100.00	-0.18	0.40	0.39	0.50	0.50	0.00	
200.00	0.51	114.93	199.99	-0.56	1.19	1.19	0.01	0.01	-0.03	
300.00	0.68	113.05	299.99	-0.98	2.14	2.14	0.17	0.17	-1.88	
400.00	0.44	141.86	399.98	-1.51	2.93	2.92	0.36	-0.24	28.81	
500.00	0.56	146.49	499.98	-2.22	3.43	3.43	0.13	0.12	4.63	
600.00	0.74	156.51	599.97	-3.22	3.96	3.95	0.21	0.18	10.02	
700.00	0.75	88.78	699.97	-3.80	4.87	4.86	0.83	0.01	-67.73	



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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
800.00	1.36	63.88	799.95	-3.26	6.59	6.58	0.75	0.61	-24.90
900.00	1.49	69.61	899.92	-2.29	8.88	8.87	0.19	0.13	5.73
1,000.00	1.34	68.46	999.89	-1.40	11.18	11.18	0.15	-0.15	-1.15
1,054.00	1.13	63.68	1,053.88	-0.94	12.25	12.24	0.43	-0.39	-8.85
1,254.00	0.45	327.17	1,253.86	0.60	13.59	13.59	0.63	-0.34	-48.26
1,349.00	2.10	262.93	1,348.84	0.70	11.66	11.66	2.05	1.74	-67.62
1,443.00	3.34	252.95	1,442.73	-0.32	7.33	7.33	1.41	1.32	-10.62
1,538.00	4.42	251.76	1,537.51	-2.27	1.21	1.20	1.14	1.14	-1.25
1,633.00	4.19	251.31	1,632.24	-4.53	-5.55	-5.57	0.24	-0.24	-0.47
1,727.00	5.28	259.28	1,725.92	-6.44	-13.06	-13.08	1.35	1.16	8.48
1,822.00	4.81	256.69	1,820.55	-8.17	-21.23	-21.26	0.55	-0.49	-2.73
1,917.00	6.09	258.56	1,915.12	-10.08	-30.04	-30.08	1.36	1.35	1.97
2,012.00	8.12	261.04	2,009.39	-12.13	-41.61	-41.66	2.16	2.14	2.61
2,107.00	7.78	262.44	2,103.48	-14.02	-54.61	-54.66	0.41	-0.36	1.47
2,202.00	6.80	262.55	2,197.71	-15.59	-66.56	-66.62	1.03	-1.03	0.12
2,296.00	7.47	255.13	2,290.98	-17.88	-77.99	-78.05	1.21	0.71	-7.89
2,391.00	7.43	255.26	2,385.18	-21.03	-89.90	-89.97	0.05	-0.04	0.14
2,485.00	9.62	251.66	2,478.13	-25.05	-103.23	-103.32	2.40	2.33	-3.83
2,580.00	9.82	252.55	2,571.77	-29.98	-118.49	-118.60	0.26	0.21	0.94
2,675.00	9.00	252.12	2,665.49	-34.69	-133.29	-133.42	0.87	-0.86	-0.45
2,770.00	7.80	253.36	2,759.47	-38.82	-146.54	-146.69	1.28	-1.26	1.31
2,864.00	7.48	252.71	2,852.64	-42.46	-158.50	-158.65	0.35	-0.34	-0.69
2,958.00	7.74	255.22	2,945.81	-45.89	-170.46	-170.63	0.45	0.28	2.67
3,052.00	8.06	257.26	3,038.92	-48.96	-183.01	-183.19	0.45	0.34	2.17
3,147.00	7.13	252.32	3,133.08	-52.22	-195.12	-195.31	1.20	-0.98	-5.20
3,241.00	7.61	250.60	3,226.31	-56.06	-206.55	-206.75	0.56	0.51	-1.83
3,336.00	6.77	252.28	3,320.56	-59.85	-217.82	-218.04	0.91	-0.88	1.77
3,431.00	6.82	252.09	3,414.89	-63.29	-228.52	-228.75	0.06	0.05	-0.20
3,525.00	7.13	253.55	3,508.20	-66.66	-239.42	-239.67	0.38	0.33	1.55
3,620.00	7.37	255.64	3,602.44	-69.84	-250.98	-251.24	0.38	0.25	2.20
3,714.00	7.41	257.81	3,695.66	-72.62	-262.75	-263.01	0.30	0.04	2.31
3,808.00	6.40	244.76	3,788.98	-76.13	-273.41	-273.69	1.98	-1.07	-13.88
3,903.00	5.57	234.02	3,883.46	-81.10	-281.93	-282.23	1.46	-0.87	-11.31
3,998.00	4.12	230.21	3,978.12	-85.99	-288.29	-288.60	1.56	-1.53	-4.01
4,092.00	2.65	220.18	4,071.96	-89.81	-292.28	-292.61	1.68	-1.56	-10.67
4,187.00	0.87	222.25	4,166.91	-92.02	-294.19	-294.52	1.87	-1.87	2.18
4,207.83	0.83	221.75	4,187.73	-92.25	-294.39	-294.73	0.18	-0.18	-2.42
BKU 962H Tgt p2									
4,282.00	0.70	219.51	4,261.90	-93.01	-295.04	-295.38	0.18	-0.18	-3.01
4,311.00	0.58	119.86	4,290.90	-93.22	-295.02	-295.36	3.38	-0.41	-343.62
4,343.00	2.81	94.07	4,322.88	-93.35	-294.10	-294.44	7.19	6.97	-80.59
4,374.00	5.70	88.04	4,353.79	-93.35	-291.80	-292.14	9.42	9.32	-19.45
4,406.00	8.69	83.85	4,385.54	-93.04	-287.81	-288.15	9.48	9.34	-13.09



Survey Report

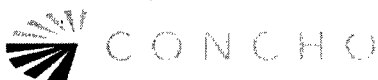


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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,437.00	11.86	81.58	4,416.04	-92.32	-282.33	-282.67	10.31	10.23	-7.32
4,468.00	15.43	79.65	4,446.16	-91.11	-275.12	-275.45	11.61	11.52	-6.23
4,500.00	19.18	79.78	4,476.70	-89.42	-265.76	-266.08	11.72	11.72	0.41
4,531.00	23.07	81.85	4,505.61	-87.65	-254.73	-255.05	12.78	12.55	6.68
4,563.00	27.04	84.34	4,534.60	-86.04	-241.28	-241.59	12.83	12.41	7.78
4,594.00	31.06	87.00	4,561.69	-84.93	-226.27	-226.58	13.62	12.97	8.58
4,626.00	34.86	89.96	4,588.54	-84.49	-208.88	-209.18	12.89	11.88	9.25
4,657.00	38.53	91.98	4,613.39	-84.82	-190.36	-190.67	12.46	11.84	6.52
4,752.00	44.60	90.95	4,684.44	-86.40	-127.38	-127.70	6.43	6.39	-1.08
4,846.00	45.84	91.13	4,750.65	-87.61	-60.67	-60.99	1.33	1.32	0.19
4,859.00	46.01	91.18	4,759.69	-87.80	-51.33	-51.66	1.34	1.31	0.38
4,878.00	46.19	91.34	4,772.87	-88.10	-37.65	-37.97	1.13	0.95	0.84
4,909.00	48.17	91.18	4,793.94	-88.60	-14.91	-15.24	6.40	6.39	-0.52
4,941.00	51.75	89.63	4,814.52	-88.76	9.58	9.25	11.79	11.19	-4.84
4,972.00	55.67	88.00	4,832.87	-88.24	34.55	34.23	13.34	12.65	-5.26
5,004.00	59.67	87.61	4,849.98	-87.20	61.57	61.25	12.54	12.50	-1.22
5,036.00	62.14	88.24	4,865.54	-86.19	89.51	89.19	7.91	7.72	1.97
5,067.00	64.23	88.39	4,879.52	-85.38	117.16	116.85	6.76	6.74	0.48
5,099.00	66.53	88.40	4,892.85	-84.56	146.24	145.93	7.19	7.19	0.03
5,107.00	67.23	88.36	4,895.99	-84.35	153.59	153.28	8.82	8.81	-0.48
Wellpath Crosses Section Line @ Heel									
5,131.00	69.35	88.25	4,904.87	-83.69	175.88	175.57	8.82	8.81	-0.47
5,162.00	72.00	88.50	4,915.13	-82.86	205.12	204.81	8.58	8.55	0.81
5,193.00	74.06	88.77	4,924.17	-82.16	234.76	234.46	6.70	6.65	0.87
5,225.00	76.17	89.14	4,932.39	-81.59	265.68	265.38	6.69	6.59	1.16
5,257.00	79.71	89.65	4,939.08	-81.27	296.97	296.67	11.17	11.06	1.59
5,288.00	83.50	90.19	4,943.60	-81.22	327.63	327.33	12.35	12.23	1.74
5,320.00	87.73	90.03	4,946.05	-81.28	359.53	359.23	13.23	13.22	-0.50
5,332.35	87.73	90.03	4,946.54	-81.29	371.87	371.57	0.06	-0.04	-0.04
BKU 962H LP p3									
5,420.00	87.69	89.99	4,950.04	-81.30	459.45	459.15	0.06	-0.04	-0.04
5,515.00	85.55	88.42	4,955.65	-79.99	554.26	553.97	2.79	-2.25	-1.65
5,547.00	85.28	87.19	4,958.20	-78.77	586.14	585.85	3.92	-0.84	-3.84
5,578.00	84.59	84.27	4,960.94	-76.47	616.93	616.64	9.64	-2.23	-9.42
5,610.00	84.01	81.20	4,964.12	-72.44	648.51	648.24	9.72	-1.81	-9.59
5,641.00	86.65	80.47	4,966.64	-67.52	679.01	678.76	8.83	8.52	-2.35
5,673.00	90.37	80.69	4,967.48	-62.29	710.56	710.33	11.65	11.63	0.69
5,704.00	92.91	82.53	4,966.59	-57.76	741.21	741.00	10.12	8.19	5.94
5,736.00	93.30	84.46	4,964.86	-54.14	772.96	772.76	6.14	1.22	6.03
5,767.00	93.49	86.01	4,963.02	-51.57	803.80	803.60	5.03	0.61	5.00
5,799.00	93.82	88.86	4,960.98	-50.15	835.70	835.51	8.95	1.03	8.91
5,894.00	92.85	90.18	4,955.45	-49.35	930.53	930.34	1.72	-1.02	1.39
5,988.00	92.24	90.51	4,951.28	-49.92	1,024.43	1,024.24	0.74	-0.65	0.35
6,083.00	92.06	91.26	4,947.71	-51.38	1,119.36	1,119.16	0.81	-0.19	0.79



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6,177.00	90.97	89.78	4,945.23	-52.24	1,213.31	1,213.12	1.95	-1.16	-1.57
6,271.00	92.04	90.11	4,942.76	-52.15	1,307.28	1,307.08	1.19	1.14	0.35
6,366.00	91.51	90.27	4,939.82	-52.46	1,402.23	1,402.03	0.58	-0.56	0.17
6,461.00	91.32	91.04	4,937.47	-53.55	1,497.20	1,496.99	0.83	-0.20	0.81
6,555.00	90.62	91.70	4,935.88	-55.79	1,591.16	1,590.94	1.02	-0.74	0.70
6,650.00	89.99	89.67	4,935.37	-56.93	1,686.14	1,685.92	2.24	-0.66	-2.14
6,745.00	89.39	89.69	4,935.89	-56.40	1,781.14	1,780.92	0.63	-0.63	0.02
6,839.00	90.87	89.15	4,935.68	-55.45	1,875.13	1,874.92	1.68	1.57	-0.57
6,934.00	90.80	89.58	4,934.29	-54.39	1,970.12	1,969.90	0.46	-0.07	0.45
7,029.00	91.17	89.20	4,932.66	-53.38	2,065.10	2,064.89	0.56	0.39	-0.40
7,124.00	90.78	88.96	4,931.04	-51.86	2,160.07	2,159.87	0.48	-0.41	-0.25
7,219.00	92.40	89.95	4,928.41	-50.95	2,255.02	2,254.82	2.00	1.71	1.04
7,313.00	92.44	90.43	4,924.44	-51.27	2,348.94	2,348.74	0.51	0.04	0.51
7,408.00	89.96	89.96	4,922.45	-51.59	2,443.91	2,443.71	2.66	-2.61	-0.49
7,503.00	89.25	89.60	4,923.10	-51.22	2,538.91	2,538.70	0.84	-0.75	-0.38
7,597.00	90.25	89.79	4,923.51	-50.72	2,632.90	2,632.70	1.08	1.06	0.20
7,692.00	91.18	89.54	4,922.33	-50.17	2,727.89	2,727.69	1.01	0.98	-0.26
7,786.00	90.89	89.60	4,920.63	-49.46	2,821.88	2,821.68	0.32	-0.31	0.06
7,880.00	90.82	87.39	4,919.23	-46.99	2,915.83	2,915.63	2.35	-0.07	-2.35
7,975.00	91.95	88.23	4,916.93	-43.36	3,010.73	3,010.55	1.48	1.19	0.88
8,070.00	91.67	88.48	4,913.93	-40.64	3,105.64	3,105.47	0.40	-0.29	0.26
8,164.00	91.42	88.69	4,911.39	-38.32	3,199.58	3,199.42	0.35	-0.27	0.22
8,258.00	90.87	89.00	4,909.52	-36.42	3,293.54	3,293.38	0.67	-0.59	0.33
8,353.00	91.69	88.84	4,907.39	-34.63	3,388.50	3,388.35	0.88	0.86	-0.17
8,447.00	91.29	89.25	4,904.95	-33.07	3,482.45	3,482.31	0.61	-0.43	0.44
8,542.00	90.87	89.35	4,903.16	-31.91	3,577.43	3,577.29	0.45	-0.44	0.11
8,637.00	90.78	89.82	4,901.79	-31.22	3,672.42	3,672.28	0.50	-0.09	0.49
8,732.00	89.98	89.59	4,901.16	-30.73	3,767.41	3,767.27	0.88	-0.84	-0.24
8,827.00	90.54	89.98	4,900.73	-30.37	3,862.41	3,862.27	0.72	0.59	0.41
8,922.00	92.03	90.54	4,898.60	-30.80	3,957.38	3,957.24	1.68	1.57	0.59
9,017.00	91.80	90.89	4,895.42	-31.99	4,052.32	4,052.18	0.44	-0.24	0.37
9,112.00	91.42	91.22	4,892.76	-33.74	4,147.27	4,147.12	0.53	-0.40	0.35
9,206.00	91.30	91.53	4,890.52	-35.99	4,241.21	4,241.05	0.35	-0.13	0.33
9,301.00	90.84	91.64	4,888.75	-38.62	4,336.16	4,335.99	0.50	-0.48	0.12
9,396.00	91.79	90.88	4,886.57	-40.71	4,431.11	4,430.93	1.28	1.00	-0.80
9,490.00	91.58	91.10	4,883.81	-42.33	4,525.06	4,524.87	0.32	-0.22	0.23
9,585.00	90.89	90.90	4,881.76	-43.99	4,620.02	4,619.83	0.76	-0.73	-0.21
9,680.00	89.96	90.52	4,881.05	-45.17	4,715.01	4,714.81	1.06	-0.98	-0.40
9,775.00	91.29	91.25	4,880.02	-46.63	4,809.99	4,809.78	1.60	1.40	0.77
9,869.00	90.99	91.51	4,878.15	-48.90	4,903.94	4,903.73	0.42	-0.32	0.28
9,964.00	90.60	91.19	4,876.83	-51.14	4,998.91	4,998.68	0.53	-0.41	-0.34
9,987.00	90.63	91.26	4,876.58	-51.63	5,021.90	5,021.68	0.34	0.13	0.32
Wellpath Crosses 330' HL @ Toe									
10,058.00	90.72	91.49	4,875.75	-53.33	5,092.87	5,092.64	0.34	0.13	0.32



Survey Report



Company: COG OPERATING, LLC
Project: Eddy /Lea County, NM (NAD27) NMEZ
Site: Burch Keely Unit 962H
Well: #962H
Wellbore: Lateral
Design: Lateral

Local Co-ordinate Reference: Well #962H - Slot BKU962
TVD Reference: 3618+18 @ 3636.00ft (SilverOak3)
MD Reference: 3618+18 @ 3636.00ft (SilverOak3)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: VON_EDM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,153.00	91.11	91.97	4,874.23	-56.20	5,187.82	5,187.58	0.65	0.41	0.51
10,230.00	91.13	92.22	4,872.72	-59.02	5,264.75	5,264.50	0.33	0.03	0.32
10,290.00	91.13	92.22	4,871.54	-61.34	5,324.69	5,324.43	0.00	0.00	0.00

TD @ 377'FNL, 25'FEL - BKU 962H TD 10' FEL - BKU 962H PBHL p2

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
BKU 962H SL - actual wellpath misses target center by 0.01ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	0.01	0.00	664,480.60	596,355.50	32° 49' 34.851 N	104° 1' 10.786 W
BKU 962H BHL - actual wellpath misses target center by 1.28ft at 10290.00ft MD (4871.54 TVD, -61.34 N, 5324.69 E) - Point	0.00	0.00	4,871.53	-61.14	5,325.96	664,419.46	601,681.46	32° 49' 34.085 N	104° 0' 8.372 W

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,107.00	4,895.99	-84.35	153.59	Wellpath Crosses Section Line @ Heel
9,987.00	4,876.58	-51.63	5,021.90	Wellpath Crosses 330' HL @ Toe
10,290.00	4,871.54	-61.34	5,324.69	TD @ 377'FNL, 25'FEL

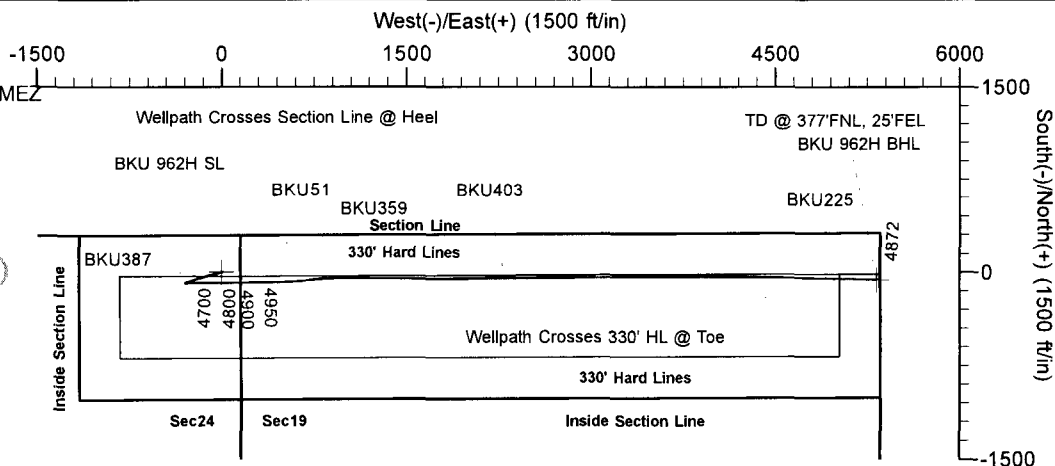
Checked By: _____ Approved By: _____ Date: _____

COG OPERATING, LLC

Project: Eddy /Lea County, NM (NAD27) NMEZ
 Site: Burch Keely Unit 962H
 Well: #962H
 Wellbore: Lateral
 Design: Lateral



3618+18 @ 3636.00ft (SilverOak3)
 NAD 1927 (NADCON CONUS)

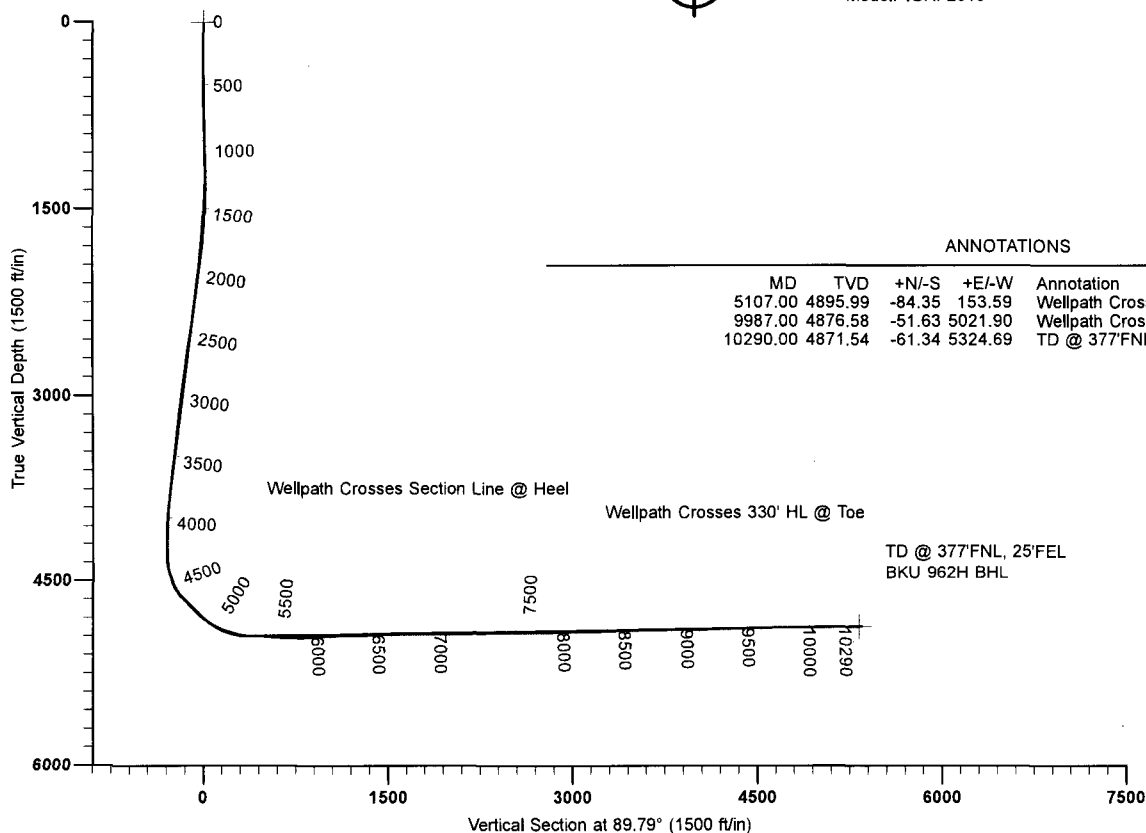


To convert a Magnetic Direction to a Grid Direction, Add 7.04°



Azimuths to Grid North
 True North: -0.17°
 Magnetic North: 7.04°

Magnetic Field
 Strength: 48250.6snT
 Dip Angle: 60.54°
 Date: 05/31/2017
 Model: IGRF2015



ANNOTATIONS

MD	TVD	+N/-S	+E/-W	Annotation
5107.00	4895.99	-84.35	153.59	Wellpath Crosses Section Line @ Heel
9987.00	4876.58	-51.63	5021.90	Wellpath Crosses 330' HL @ Toe
10290.00	4871.54	-61.34	5324.69	TD @ 377'FNL, 25'FEL

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BKU 962H SL	0.00	0.01	0.00	664480.60	596355.50	Point
BKU 962H BHL	4871.53	-61.14	5325.96	664419.45	601681.46	Point

Design: Lateral (#962H/Lateral)
 Created By: Mekka Williams
 eSomina Well Design
 mekka@esominawelldesign.com
 10:23, June 23 2017

VON DIRECTIONAL
 12074 FM 3083 Conroe, Texas 77301
 936-756-2400

