



30-025-42857

BTA Oil Producers, LLC

Lea County, NM
Sec 11, T26S, R32E
Mesa 8105 JV-P #22H

Wellbore #1

Design: Wellbore #1

QES Survey Report

08 September, 2016

HOBBS OCD
APR 18 2018
RECEIVED





Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 JV-P #22H
Project:	Lea County, NM	TVD Reference:	WELL @ 3282.0usft (Nomac #94)
Site:	Sec 11, T26S, R32E	MD Reference:	WELL @ 3282.0usft (Nomac #94)
Well:	Mesa 8105 JV-P #22H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

Project	Lea County, NM		
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	Sec 11, T26S, R32E		
Site Position:		Northing:	387,664.40 usft
From:	Map	Easting:	710,948.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 3' 50.311 N
		Longitude:	103° 39' 8.553 W
		Grid Convergence:	0.36 °

Well	Mesa 8105 JV-P #22H		
Well Position	+N/-S	0.0 usft	Northing: 387,692.20 usft
	+E/-W	0.0 usft	Easting: 715,263.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 3' 50.314 N
		Longitude:	103° 38' 18.408 W
		Ground Level:	3,257.0 usft

Wellbore	Wellbore #1		
-----------------	-------------	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/22/2016	7.06	59.91	47,921

Design	Wellbore #1		
---------------	-------------	--	--

Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.41

Survey Program		Date	9/8/2016	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	4,534.0	Gyros (Wellbore #1)	Good_gyro	Good Gyro
4,687.0	14,554.0	MWD Surveys (Wellbore #1)	MWD default	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)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.17	252.98	100.0	0.0	-0.1	0.0	0.17	0.17	0.00
	200.0	0.45	161.11	200.0	-0.5	-0.2	0.5	0.49	0.28	-91.87
	300.0	0.71	143.53	300.0	-1.3	0.3	1.3	0.31	0.26	-17.58
	400.0	0.64	130.36	400.0	-2.2	1.1	2.2	0.17	-0.07	-13.17
	500.0	0.35	104.60	500.0	-2.6	1.9	2.6	0.36	-0.29	-25.76
	600.0	0.24	26.84	600.0	-2.5	2.2	2.5	0.38	-0.11	-77.76
	700.0	0.41	307.04	700.0	-2.1	2.1	2.1	0.44	0.17	-79.80
	800.0	0.68	284.40	800.0	-1.8	1.2	1.7	0.34	0.27	-22.64
	900.0	0.86	293.56	900.0	-1.3	-0.1	1.3	0.22	0.18	9.16



Survey Report



Company:	BTA Oil Producers, LLC	Local Co-ordinate Reference:	Well Mesa 8105 JV-P #22H
Project:	Lea County, NM	TVD Reference:	WELL @ 3282.0usft (Nomac #94)
Site:	Sec 11, T26S, R32E	MD Reference:	WELL @ 3282.0usft (Nomac #94)
Well:	Mesa 8105 JV-P #22H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM5002

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)
1,000.0	0.82	291.03	1,000.0	-0.7	-1.4	0.8	0.05	-0.04	-2.53
1,100.0	0.88	289.15	1,099.9	-0.2	-2.8	0.3	0.07	0.06	-1.88
1,200.0	0.81	286.78	1,199.9	0.2	-4.2	-0.2	0.08	-0.07	-2.37
1,300.0	0.81	290.93	1,299.9	0.7	-5.6	-0.6	0.06	0.00	4.15
1,400.0	0.77	299.11	1,399.9	1.3	-6.8	-1.2	0.12	-0.04	8.18
1,500.0	0.91	305.46	1,499.9	2.0	-8.0	-2.0	0.17	0.14	6.35
1,600.0	1.00	310.16	1,599.9	3.1	-9.4	-3.0	0.12	0.09	4.70
1,700.0	1.29	310.84	1,699.9	4.4	-10.9	-4.3	0.29	0.29	0.68
1,800.0	1.50	311.69	1,799.8	6.0	-12.7	-5.9	0.21	0.21	0.85
1,900.0	1.70	306.92	1,899.8	7.7	-14.9	-7.6	0.24	0.20	-4.77
2,000.0	0.69	243.93	1,999.8	8.4	-16.6	-8.2	1.52	-1.01	-62.99
2,100.0	1.61	178.46	2,099.8	6.7	-17.1	-6.6	1.46	0.92	-65.47
2,200.0	1.32	182.06	2,199.7	4.1	-17.1	-4.0	0.30	-0.29	3.60
2,300.0	1.39	185.31	2,299.7	1.8	-17.3	-1.7	0.10	0.07	3.25
2,400.0	1.35	188.09	2,399.7	-0.6	-17.5	0.7	0.08	-0.04	2.78
2,500.0	2.18	77.15	2,499.6	-1.3	-15.8	1.5	2.95	0.83	-110.94
2,600.0	2.33	75.58	2,599.6	-0.4	-12.0	0.5	0.16	0.15	-1.57
2,700.0	1.90	237.43	2,699.5	-0.8	-11.4	0.9	4.18	-0.43	161.85
2,800.0	2.19	241.86	2,799.5	-2.6	-14.5	2.7	0.33	0.29	4.43
2,900.0	0.76	314.76	2,899.5	-3.0	-16.7	3.1	2.10	-1.43	72.90
3,000.0	0.63	299.14	2,999.4	-2.3	-17.6	2.4	0.23	-0.13	-15.62
3,100.0	0.64	294.23	3,099.4	-1.8	-18.6	1.9	0.06	0.01	-4.91
3,200.0	0.27	300.04	3,199.4	-1.4	-19.3	1.6	0.37	-0.37	5.81
3,300.0	0.17	103.70	3,299.4	-1.4	-19.4	1.5	0.44	-0.10	163.66
3,400.0	0.78	68.75	3,399.4	-1.2	-18.6	1.3	0.65	0.61	-34.95
3,500.0	1.28	66.18	3,499.4	-0.5	-17.0	0.6	0.50	0.50	-2.57
3,600.0	1.72	68.65	3,599.4	0.5	-14.5	-0.4	0.44	0.44	2.47
3,700.0	2.04	69.61	3,699.3	1.7	-11.5	-1.6	0.32	0.32	0.96
3,800.0	1.79	66.90	3,799.3	2.9	-8.4	-2.9	0.27	-0.25	-2.71
3,900.0	1.73	66.92	3,899.2	4.1	-5.5	-4.1	0.06	-0.06	0.02
4,000.0	1.93	71.29	3,999.2	5.3	-2.6	-5.3	0.24	0.20	4.37
4,100.0	2.54	85.48	4,099.1	6.0	1.2	-6.0	0.82	0.61	14.19
4,200.0	0.90	108.10	4,199.0	5.9	4.2	-6.0	1.74	-1.64	22.62
4,300.0	1.50	132.78	4,299.0	4.8	5.9	-4.8	0.78	0.60	24.68
4,400.0	2.28	136.79	4,399.0	2.5	8.2	-2.5	0.79	0.78	4.01
4,500.0	0.55	41.19	4,498.9	1.4	9.9	-1.4	2.40	-1.73	-95.60
Tie into Gyro @ 4534' MD / 4533' TVD									
4,534.0	0.65	24.47	4,532.9	1.7	10.1	-1.7	0.59	0.29	-49.18
4,687.0	0.70	18.60	4,685.9	3.3	10.7	-3.4	0.06	0.03	-3.84
4,782.0	3.00	6.20	4,780.9	6.4	11.2	-6.4	2.44	2.42	-13.05
4,877.0	3.60	2.70	4,875.7	11.8	11.6	-11.9	0.67	0.63	-3.68
4,972.0	3.70	0.20	4,970.5	17.9	11.8	-17.9	0.20	0.11	-2.63
5,067.0	3.90	0.20	5,065.3	24.1	11.8	-24.2	0.21	0.21	0.00



Survey Report



Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Sec 11, T26S, R32E
Well: Mesa 8105 JV-P #22H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Mesa 8105 JV-P #22H
TVD Reference: WELL @ 3282.0usft (Nomac #94)
MD Reference: WELL @ 3282.0usft (Nomac #94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

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)
5,162.0	4.00	359.50	5,160.1	30.7	11.8	-30.8	0.12	0.11	-0.74
5,257.0	3.90	4.40	5,254.9	37.2	12.0	-37.3	0.37	-0.11	5.16
5,352.0	3.60	2.30	5,349.7	43.4	12.4	-43.5	0.35	-0.32	-2.21
5,447.0	3.70	3.20	5,444.5	49.5	12.6	-49.6	0.12	0.11	0.95
5,542.0	3.50	359.70	5,539.3	55.4	12.8	-55.5	0.31	-0.21	-3.68
5,638.0	4.90	353.10	5,635.0	62.4	12.3	-62.5	1.54	1.46	-6.88
5,733.0	5.00	347.40	5,729.7	70.5	10.9	-70.6	0.53	0.11	-6.00
5,828.0	5.10	349.10	5,824.3	78.7	9.2	-78.7	0.19	0.11	1.79
5,923.0	5.10	347.50	5,918.9	87.0	7.5	-87.0	0.15	0.00	-1.68
6,018.0	4.80	349.50	6,013.6	95.0	5.9	-95.0	0.36	-0.32	2.11
6,113.0	5.30	347.50	6,108.2	103.2	4.2	-103.2	0.56	0.53	-2.11
6,208.0	5.40	347.70	6,202.8	111.8	2.3	-111.8	0.11	0.11	0.21
6,303.0	5.10	348.80	6,297.4	120.3	0.5	-120.3	0.33	-0.32	1.16
6,398.0	4.40	352.80	6,392.1	128.1	-0.8	-128.1	0.81	-0.74	4.21
6,493.0	4.70	351.90	6,486.8	135.6	-1.8	-135.5	0.32	0.32	-0.95
6,588.0	4.80	348.20	6,581.4	143.3	-3.1	-143.3	0.34	0.11	-3.89
6,683.0	3.30	357.40	6,676.2	149.9	-4.1	-149.9	1.72	-1.58	9.68
6,778.0	3.60	355.40	6,771.0	155.6	-4.4	-155.6	0.34	0.32	-2.11
6,873.0	3.70	358.30	6,865.8	161.7	-4.8	-161.6	0.22	0.11	3.05
6,968.0	3.40	0.20	6,960.6	167.6	-4.9	-167.5	0.34	-0.32	2.00
7,063.0	3.40	0.70	7,055.5	173.2	-4.8	-173.1	0.03	0.00	0.53
7,158.0	3.20	356.90	7,150.3	178.7	-4.9	-178.6	0.31	-0.21	-4.00
7,253.0	3.20	0.01	7,245.2	183.9	-5.1	-183.9	0.18	0.00	3.27
7,348.0	4.70	352.80	7,339.9	190.5	-5.5	-190.4	1.66	1.58	-7.58
7,443.0	4.50	349.80	7,434.6	198.0	-6.7	-197.9	0.33	-0.21	-3.16
7,538.0	4.30	353.30	7,529.4	205.2	-7.8	-205.1	0.35	-0.21	3.68
7,633.0	3.90	351.80	7,624.1	211.9	-8.6	-211.9	0.44	-0.42	-1.58
7,728.0	3.60	356.10	7,718.9	218.1	-9.3	-218.0	0.43	-0.32	4.53
7,823.0	3.40	350.50	7,813.7	223.9	-10.0	-223.8	0.42	-0.21	-5.89
7,918.0	3.20	350.50	7,908.6	229.3	-10.9	-229.2	0.21	-0.21	0.00
8,013.0	4.60	352.10	8,003.4	235.6	-11.8	-235.6	1.48	1.47	1.68
8,108.0	5.30	3.90	8,098.0	243.8	-12.1	-243.7	1.30	0.74	12.42
8,203.0	5.30	6.70	8,192.6	252.5	-11.3	-252.4	0.27	0.00	2.95
8,298.0	5.20	4.10	8,287.2	261.2	-10.4	-261.1	0.27	-0.11	-2.74
8,393.0	4.50	4.80	8,381.9	269.2	-9.8	-269.1	0.74	-0.74	0.74
8,487.0	4.10	359.80	8,475.6	276.2	-9.5	-276.1	0.58	-0.43	-5.32
8,582.0	3.80	357.00	8,570.4	282.8	-9.7	-282.7	0.38	-0.32	-2.95
8,677.0	4.40	3.50	8,665.1	289.5	-9.6	-289.5	0.80	0.63	6.84
8,772.0	4.00	4.20	8,759.9	296.5	-9.2	-296.4	0.42	-0.42	0.74
8,867.0	3.40	359.10	8,854.7	302.6	-9.0	-302.5	0.72	-0.63	-5.37
8,962.0	2.70	359.70	8,949.5	307.7	-9.0	-307.6	0.74	-0.74	0.63
9,068.0	3.50	198.80	9,055.5	307.1	-10.1	-307.0	5.77	0.75	-151.79
9,163.0	12.80	190.70	9,149.4	294.0	-13.0	-293.9	9.84	9.79	-8.53



Survey Report



Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Sec 11, T26S, R32E
Well: Mesa 8105 JV-P #22H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Mesa 8105 JV-P #22H
TVD Reference: WELL @ 3282.0usft (Nomac #94)
MD Reference: WELL @ 3282.0usft (Nomac #94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

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)
9,258.0	20.90	187.70	9,240.3	266.8	-17.2	-266.7	8.57	8.53	-3.16
9,353.0	27.20	183.90	9,327.0	228.3	-21.0	-228.2	6.83	6.63	-4.00
9,448.0	34.70	182.50	9,408.4	179.6	-23.6	-179.4	7.93	7.89	-1.47
9,543.0	44.00	179.30	9,481.8	119.4	-24.4	-119.2	10.02	9.79	-3.37
9,638.0	58.50	183.90	9,541.1	45.6	-26.8	-45.4	15.72	15.26	4.84
Crossed Hard Line @ 9690' MD / 9566' TVD									
9,690.2	64.65	183.38	9,565.9	-0.2	-29.7	0.4	11.82	11.79	-0.99
9,733.0	69.70	183.00	9,582.5	-39.6	-31.9	39.8	11.82	11.79	-0.90
9,828.0	78.70	181.20	9,608.4	-130.8	-35.2	131.1	9.65	9.47	-1.89
9,923.0	84.50	179.70	9,622.3	-224.8	-35.9	225.0	6.30	6.11	-1.58
9,947.0	87.50	179.00	9,623.9	-248.7	-35.6	248.9	12.83	12.50	-2.92
10,042.0	90.30	178.30	9,625.8	-343.6	-33.4	343.9	3.04	2.95	-0.74
10,137.0	90.70	177.00	9,624.9	-438.6	-29.5	438.8	1.43	0.42	-1.37
10,232.0	89.30	178.10	9,624.9	-533.5	-25.4	533.6	1.87	-1.47	1.16
10,327.0	87.30	179.80	9,627.7	-628.4	-23.7	628.6	2.76	-2.11	1.79
10,422.0	89.40	179.80	9,630.5	-723.4	-23.4	723.5	2.21	2.21	0.00
10,517.0	87.00	179.50	9,633.5	-818.3	-22.8	818.4	2.55	-2.53	-0.32
10,612.0	88.40	179.30	9,637.3	-913.2	-21.8	913.4	1.49	1.47	-0.21
10,707.0	87.70	178.30	9,640.5	-1,008.1	-19.8	1,008.3	1.28	-0.74	-1.05
10,802.0	88.10	177.70	9,644.0	-1,103.0	-16.5	1,103.1	0.76	0.42	-0.63
10,897.0	88.60	177.20	9,646.7	-1,197.9	-12.3	1,197.9	0.74	0.53	-0.53
10,992.0	90.00	176.50	9,647.9	-1,292.7	-7.1	1,292.7	1.65	1.47	-0.74
11,087.0	91.30	176.00	9,646.8	-1,387.5	-0.8	1,387.5	1.47	1.37	-0.53
11,182.0	90.60	177.70	9,645.2	-1,482.4	4.4	1,482.3	1.94	-0.74	1.79
11,277.0	91.60	176.90	9,643.4	-1,577.2	8.8	1,577.1	1.35	1.05	-0.84
11,372.0	92.50	178.30	9,640.0	-1,672.1	12.8	1,672.0	1.75	0.95	1.47
11,467.0	89.80	178.80	9,638.1	-1,767.0	15.2	1,766.9	2.89	-2.84	0.53
11,562.0	89.30	181.60	9,638.9	-1,862.0	14.9	1,861.9	2.99	-0.53	2.95
11,657.0	90.30	181.60	9,639.2	-1,957.0	12.2	1,956.8	1.05	1.05	0.00
11,752.0	89.40	182.10	9,639.4	-2,051.9	9.2	2,051.8	1.08	-0.95	0.53
11,847.0	88.20	180.70	9,641.4	-2,146.9	6.9	2,146.8	1.94	-1.26	-1.47
11,942.0	88.90	179.80	9,643.8	-2,241.8	6.4	2,241.7	1.20	0.74	-0.95
12,037.0	89.40	179.70	9,645.2	-2,336.8	6.9	2,336.7	0.54	0.53	-0.11
12,132.0	89.50	178.80	9,646.1	-2,431.8	8.1	2,431.7	0.95	0.11	-0.95
12,228.0	90.60	178.40	9,646.1	-2,527.8	10.4	2,527.6	1.22	1.15	-0.42
12,323.0	91.40	177.90	9,644.4	-2,622.7	13.5	2,622.6	0.99	0.84	-0.53
12,418.0	89.20	180.00	9,643.9	-2,717.7	15.3	2,717.5	3.20	-2.32	2.21
12,513.0	88.80	181.20	9,645.6	-2,812.7	14.3	2,812.5	1.33	-0.42	1.26
12,608.0	88.30	182.10	9,648.0	-2,907.6	11.5	2,907.4	1.08	-0.53	0.95
12,703.0	87.80	181.20	9,651.2	-3,002.5	8.8	3,002.4	1.08	-0.53	-0.95
12,798.0	86.50	183.40	9,655.9	-3,097.3	5.0	3,097.2	2.69	-1.37	2.32
12,893.0	89.50	186.20	9,659.2	-3,191.9	-3.0	3,191.8	4.32	3.16	2.95
12,988.0	90.90	184.90	9,658.9	-3,286.4	-12.2	3,286.4	2.01	1.47	-1.37
13,083.0	91.80	184.60	9,656.7	-3,381.1	-20.0	3,381.1	1.00	0.95	-0.32



Survey Report



Company: BTA Oil Producers, LLC
Project: Lea County, NM
Site: Sec 11, T26S, R32E
Well: Mesa 8105 JV-P #22H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Mesa 8105 JV-P #22H
TVD Reference: WELL @ 3282.0usft (Nomac #94)
MD Reference: WELL @ 3282.0usft (Nomac #94)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM5002

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)
13,178.0	91.40	183.20	9,654.0	-3,475.8	-26.5	3,475.9	1.53	-0.42	-1.47
13,273.0	90.80	182.60	9,652.2	-3,570.7	-31.3	3,570.8	0.89	-0.63	-0.63
13,368.0	92.90	182.60	9,649.1	-3,665.5	-35.6	3,665.7	2.21	2.21	0.00
13,463.0	91.40	181.80	9,645.6	-3,760.4	-39.2	3,760.6	1.79	-1.58	-0.84
13,556.0	89.30	180.90	9,645.0	-3,853.4	-41.4	3,853.6	2.46	-2.26	-0.97
13,651.0	90.00	180.50	9,645.6	-3,948.3	-42.6	3,948.6	0.85	0.74	-0.42
13,746.0	86.50	180.00	9,648.5	-4,043.3	-43.0	4,043.5	3.72	-3.68	-0.53
13,841.0	86.00	180.20	9,654.7	-4,138.1	-43.2	4,138.3	0.57	-0.53	0.21
13,936.0	88.20	179.50	9,659.5	-4,233.0	-42.9	4,233.2	2.43	2.32	-0.74
14,031.0	89.70	180.70	9,661.2	-4,327.9	-43.1	4,328.1	2.02	1.58	1.26
14,126.0	91.50	180.20	9,660.2	-4,422.9	-43.8	4,423.1	1.97	1.89	-0.53
14,221.0	91.40	179.80	9,657.8	-4,517.9	-43.8	4,518.1	0.43	-0.11	-0.42
14,316.0	90.30	179.80	9,656.4	-4,612.9	-43.5	4,613.1	1.16	-1.16	0.00
Crossed Hard Line @ 14392' MD / 9655' TVD									
14,392.2	91.18	179.24	9,655.4	-4,689.1	-42.9	4,689.3	1.37	1.16	-0.74
14,411.0	91.40	179.10	9,655.0	-4,707.9	-42.6	4,708.0	1.37	1.16	-0.74
14,497.0	92.20	179.50	9,652.3	-4,793.8	-41.5	4,794.0	1.04	0.93	0.47
TD @ 14554' MD / 9650' TVD									
14,554.0	92.20	179.50	9,650.1	-4,850.8	-41.0	4,850.9	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,534.0	4,532.9	1.7	10.1	Tie into Gyro @ 4534' MD / 4533' TVD
9,690.2	9,565.9	-0.2	-29.7	Crossed Hard Line @ 9690' MD / 9566' TVD
14,392.2	9,655.4	-4,689.1	-42.9	Crossed Hard Line @ 14392' MD / 9655' TVD
14,554.0	9,650.1	-4,850.8	-41.0	TD @ 14554' MD / 9650' TVD

Checked By: _____ Approved By: _____ Date: _____