

BTA Oil Producers

Eddy ,NM

20509 JV-P Ogden #1H

20509 JV-P Ogden #1H

Wellbore #1

Survey: MWD Survey

DDC Survey Report

03 November, 2009



DDC Survey Report



Company:	BTA Oil Producers	Local Co-ordinate Reference:	Well 20509 JV-P Ogden #1H
Project:	Eddy ,NM	TVD Reference:	WELL @ 3100.0usft (Original Well Elev)
Site:	20509 JV-P Ogden #1H	MD Reference:	WELL @ 3100.0usft (Original Well Elev)
Well:	20509 JV-P Ogden #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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

Site: 20509 JV-P Ogden #1H

Site Position:	Northing:	464,838.40 usft	Latitude:	32° 16' 39.913 N	
From: Map	Easting:	570,140.90 usft	Longitude:	104° 6' 22.975 W	
Position Uncertainty:	0.0 usft	Slot Radius:	0 "	Grid Convergence:	0.12 °

Well: 20509 JV-P Ogden #1H

Well Position	+N/-S	0.0 usft	Northing:	464,838.40 usft	Latitude:	32° 16' 39.913 N
	+E/-W	0.0 usft	Easting:	570,140.90 usft	Longitude:	104° 6' 22.975 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,084.0 usft	

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	8/20/2009	8.04	60 20	48,802

Design: Wellbore #1

Audit Notes:	
Version:	1.0
Phase:	ACTUAL
Tie On Depth:	0 0
Vertical Section:	
Depth From (TVD) (usft)	0 0
+N/-S (usft)	0.0
+E/-W (usft)	0.0
Direction (°)	178.23

Survey Program Date 11/3/2009

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
6,675.0	12,438.0	MWD Survey (Wellbore #1)		

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)
Tie-In									
6,600.0	1.32	108.76	6,599.5	-36.2	1.4	36.3	0.00	0.00	0.00
6,675.0	12.10	194.30	6,673.9	-44.2	0.3	44.2	16.09	14.38	114.07
6,706.0	18.20	192.30	6,703.8	-52.1	-1.6	52.0	19.75	19.68	-6.45
6,738.0	22.70	197.20	6,733.8	-62.8	-4.4	62.7	15.03	14.06	15.31
6,770.0	26.90	195.70	6,762.9	-75.7	-8.2	75.4	13.27	13.13	-4.69
6,802.0	30.60	191.70	6,790.9	-90.7	-11.8	90.3	13.03	11.56	-12.50
6,833.0	34.40	184.90	6,817.1	-107.1	-14.2	106.6	16.99	12.26	-21.94
6,865.0	37.50	179.60	6,843.0	-125.9	-14.9	125.4	13.72	9.69	-16.56
6,893.0	40.30	177.80	6,864.8	-143.5	-14.5	142.9	10.78	10.00	-6.43
6,925.0	43.40	174.70	6,888.6	-164.8	-13.1	164.3	11.64	9.69	-9.69

DDC
Survey Report



Company: BTA Oil Producers
Project: Eddy, NM
Site: 20509 JV-P Ogden #1H
Well: 20509 JV-P Ogden #1H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well 20509 JV-P Ogden #1H
TVD Reference: WELL @ 3100.0usft (Original Well Elev)
MD Reference: WELL @ 3100.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User 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)
6,957.0	47.10	170.80	6,911.1	-187.3	-10.2	186.9	14.44	11.56	-12.19
6,989.0	51.00	167.60	6,932.1	-211.0	-5.6	210.7	14.34	12.19	-10.00
7,020.0	54.10	166.10	6,951.0	-235.0	0.0	234.9	10.71	10.00	-4.84
7,052.0	55.60	165.80	6,969.4	-260.4	6.3	260.4	4.75	4.69	-0.94
7,084.0	56.80	168.00	6,987.2	-286.3	12.3	286.5	6.83	3.75	6.88
7,116.0	58.40	172.40	7,004.3	-312.9	16.9	313.2	12.64	5.00	13.75
7,148.0	62.50	176.80	7,020.1	-340.6	19.5	341.0	17.52	12.81	13.75
7,180.0	68.60	178.90	7,033.4	-369.7	20.6	370.1	19.98	19.06	6.56
7,212.0	75.20	179.40	7,043.3	-400.1	21.1	400.5	20.68	20.63	1.56
7,243.0	81.40	179.50	7,049.6	-430.4	21.3	430.8	20.00	20.00	0.32
7,275.0	82.10	179.10	7,054.2	-462.1	21.7	462.5	2.51	2.19	-1.25
7,306.0	82.20	179.10	7,058.4	-492.8	22.2	493.2	0.32	0.32	0.00
7,338.0	84.70	180.10	7,062.0	-524.6	22.4	525.0	8.41	7.81	3.13
7,370.0	85.90	180.00	7,064.7	-556.4	22.4	556.9	3.76	3.75	-0.31
7,402.0	85.40	179.10	7,067.1	-588.4	22.7	588.8	3.21	-1.56	-2.81
7,434.0	85.10	179.10	7,069.7	-620.2	23.2	620.7	0.94	-0.94	0.00
7,466.0	88.40	180.20	7,071.6	-652.2	23.4	652.6	10.87	10.31	3.44
7,498.0	90.80	180.30	7,071.8	-684.2	23.2	684.6	7.51	7.50	0.31
7,530.0	90.80	180.10	7,071.3	-716.2	23.1	716.5	0.62	0.00	-0.63
7,562.0	90.70	179.20	7,070.9	-748.2	23.3	748.5	2.83	-0.31	-2.81
7,594.0	90.20	179.30	7,070.7	-780.2	23.7	780.5	1.59	-1.56	0.31
7,626.0	90.10	179.20	7,070.6	-812.2	24.1	812.5	0.44	-0.31	-0.31
7,658.0	89.90	179.30	7,070.6	-844.2	24.6	844.5	0.70	-0.63	0.31
7,690.0	90.10	177.40	7,070.6	-876.1	25.5	876.5	5.97	0.63	-5.94
7,722.0	89.90	177.60	7,070.6	-908.1	26.9	908.5	0.88	-0.63	0.63
7,754.0	89.50	177.30	7,070.8	-940.1	28.3	940.5	1.56	-1.25	-0.94
7,786.0	89.50	177.00	7,071.0	-972.0	29.9	972.5	0.94	0.00	-0.94
7,818.0	90.40	176.60	7,071.1	-1,004.0	31.7	1,004.5	3.08	2.81	-1.25
7,849.0	90.20	177.00	7,070.9	-1,034.9	33.4	1,035.5	1.44	-0.65	1.29
7,881.0	90.40	176.90	7,070.7	-1,066.9	35.1	1,067.5	0.70	0.63	-0.31
7,913.0	90.20	176.90	7,070.6	-1,098.9	36.8	1,099.5	0.63	-0.63	0.00
7,945.0	90.10	176.50	7,070.5	-1,130.8	38.7	1,131.5	1.29	-0.31	-1.25
7,976.0	89.80	176.60	7,070.5	-1,161.7	40.5	1,162.4	1.02	-0.97	0.32
8,007.0	89.40	176.10	7,070.7	-1,192.7	42.5	1,193.4	2.07	-1.29	-1.61
8,039.0	89.10	176.10	7,071.1	-1,224.6	44.7	1,225.4	0.94	-0.94	0.00
8,071.0	89.40	178.50	7,071.6	-1,256.6	46.2	1,257.4	7.56	0.94	7.50
8,103.0	90.20	178.90	7,071.7	-1,288.6	46.9	1,289.4	2.80	2.50	1.25
8,135.0	90.20	179.50	7,071.6	-1,320.5	47.4	1,321.4	1.87	0.00	1.88
8,166.0	90.60	179.00	7,071.3	-1,351.5	47.8	1,352.4	2.07	1.29	-1.61
8,197.0	90.60	178.50	7,071.0	-1,382.5	48.5	1,383.4	1.61	0.00	-1.61
8,229.0	90.40	178.80	7,070.7	-1,414.5	49.2	1,415.4	1.13	-0.63	0.94
8,261.0	90.60	178.60	7,070.5	-1,446.5	49.9	1,447.4	0.88	0.63	-0.63
8,293.0	90.50	178.80	7,070.2	-1,478.5	50.7	1,479.4	0.70	-0.31	0.63

DDC Survey Report



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Site:	20509 JV-P Ogden #1H	MD Reference:	WELL @ 3100.0usft (Original Well Elev)
Well:	20509 JV-P Ogden #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User 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)
8,325.0	90.60	178.40	7,069.8	-1,510.5	51.4	1,511.4	1.29	0.31	-1.25
8,356.0	90.50	178.60	7,069.5	-1,541.5	52.3	1,542.4	0.72	-0.32	0.65
8,388.0	90.40	178.30	7,069.3	-1,573.5	53.1	1,574.4	0.99	-0.31	-0.94
8,420.0	90.50	177.80	7,069.0	-1,605.4	54.2	1,606.4	1.59	0.31	-1.56
8,452.0	90.30	177.60	7,068.8	-1,637.4	55.5	1,638.4	0.88	-0.63	-0.63
8,484.0	89.90	177.30	7,068.8	-1,669.4	56.9	1,670.4	1.56	-1.25	-0.94
8,516.0	89.80	177.10	7,068.8	-1,701.4	58.5	1,702.3	0.70	-0.31	-0.63
8,547.0	89.80	177.10	7,069.0	-1,732.3	60.0	1,733.3	0.00	0.00	0.00
8,578.0	89.20	177.70	7,069.2	-1,763.3	61.5	1,764.3	2.74	-1.94	1.94
8,610.0	88.80	178.20	7,069.8	-1,795.3	62.6	1,796.3	2.00	-1.25	1.56
8,642.0	88.30	178.00	7,070.6	-1,827.2	63.7	1,828.3	1.68	-1.56	-0.63
8,674.0	88.10	178.00	7,071.6	-1,859.2	64.8	1,860.3	0.63	-0.63	0.00
8,706.0	88.80	178.20	7,072.5	-1,891.2	65.8	1,892.3	2.27	2.19	0.63
8,737.0	88.40	178.20	7,073.2	-1,922.1	66.8	1,923.3	1.29	-1.29	0.00
8,769.0	88.40	178.30	7,074.1	-1,954.1	67.8	1,955.3	0.31	0.00	0.31
8,801.0	88.30	177.90	7,075.0	-1,986.1	68.8	1,987.3	1.29	-0.31	-1.25
8,833.0	89.00	178.30	7,075.8	-2,018.1	69.9	2,019.2	2.52	2.19	1.25
8,864.0	88.80	178.10	7,076.4	-2,049.0	70.9	2,050.2	0.91	-0.65	-0.65
8,896.0	88.30	178.40	7,077.2	-2,081.0	71.9	2,082.2	1.82	-1.56	0.94
8,928.0	88.30	178.20	7,078.1	-2,113.0	72.8	2,114.2	0.62	0.00	-0.63
8,960.0	89.40	177.90	7,078.8	-2,145.0	73.9	2,146.2	3.56	3.44	-0.94
8,992.0	90.10	178.20	7,078.9	-2,176.9	75.0	2,178.2	2.38	2.19	0.94
9,024.0	90.10	178.00	7,078.9	-2,208.9	76.0	2,210.2	0.63	0.00	-0.63
9,055.0	89.80	178.20	7,078.9	-2,239.9	77.1	2,241.2	1.16	-0.97	0.65
9,086.0	89.50	178.10	7,079.1	-2,270.9	78.1	2,272.2	1.02	-0.97	-0.32
9,117.0	90.20	177.90	7,079.2	-2,301.9	79.2	2,303.2	2.35	2.26	-0.65
9,149.0	90.20	178.00	7,079.1	-2,333.8	80.3	2,335.2	0.31	0.00	0.31
9,181.0	90.20	177.90	7,078.9	-2,365.8	81.4	2,367.2	0.31	0.00	-0.31
9,213.0	90.10	177.80	7,078.9	-2,397.8	82.6	2,399.2	0.44	-0.31	-0.31
9,244.0	89.80	177.70	7,078.9	-2,428.8	83.9	2,430.2	1.02	-0.97	-0.32
9,276.0	89.80	177.60	7,079.0	-2,460.7	85.2	2,462.2	0.31	0.00	-0.31
9,308.0	90.00	177.50	7,079.1	-2,492.7	86.5	2,494.2	0.70	0.63	-0.31
9,339.0	89.80	177.90	7,079.1	-2,523.7	87.8	2,525.2	1.44	-0.65	1.29
9,371.0	89.70	177.60	7,079.3	-2,555.7	89.0	2,557.2	0.99	-0.31	-0.94
9,403.0	89.80	177.10	7,079.4	-2,587.6	90.5	2,589.2	1.59	0.31	-1.56
9,434.0	89.70	177.60	7,079.5	-2,618.6	92.0	2,620.2	1.64	-0.32	1.61
9,466.0	90.20	177.70	7,079.6	-2,650.6	93.3	2,652.2	1.59	1.56	0.31
9,498.0	90.10	177.60	7,079.5	-2,682.5	94.6	2,684.2	0.44	-0.31	-0.31
9,529.0	90.50	178.80	7,079.3	-2,713.5	95.6	2,715.2	4.08	1.29	3.87
9,561.0	90.10	178.70	7,079.1	-2,745.5	96.2	2,747.2	1.29	-1.25	-0.31
9,592.0	89.90	178.50	7,079.1	-2,776.5	97.0	2,778.2	0.91	-0.65	-0.65
9,624.0	89.90	178.30	7,079.2	-2,808.5	97.9	2,810.2	0.63	0.00	-0.63
9,656.0	90.00	177.80	7,079.2	-2,840.5	99.0	2,842.2	1.59	0.31	-1.56

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9,687.0	90.10	177.60	7,079.2	-2,871.5	100.2	2,873.2	0.72	0.32	-0.65
9,719.0	90.30	177.60	7,079.1	-2,903.4	101.6	2,905.2	0.63	0.63	0.00
9,751.0	90.40	177.20	7,078.9	-2,935.4	103.0	2,937.2	1.29	0.31	-1.25
9,783.0	90.20	177.50	7,078.7	-2,967.4	104.5	2,969.2	1.13	-0.63	0.94
9,814.0	90.60	178.00	7,078.5	-2,998.3	105.7	3,000.2	2.07	1.29	1.61
9,846.0	90.30	177.30	7,078.3	-3,030.3	107.0	3,032.2	2.38	-0.94	-2.19
9,878.0	90.20	177.60	7,078.1	-3,062.3	108.5	3,064.2	0.99	-0.31	0.94
9,910.0	90.00	177.40	7,078.1	-3,094.2	109.9	3,096.2	0.88	-0.63	-0.63
9,941.0	90.30	177.10	7,078.0	-3,125.2	111.3	3,127.2	1.37	0.97	-0.97
9,973.0	90.50	177.60	7,077.8	-3,157.2	112.8	3,159.1	1.68	0.63	1.56
10,005.0	90.30	179.40	7,077.5	-3,189.2	113.7	3,191.1	5.66	-0.63	5.63
10,036.0	90.60	179.30	7,077.3	-3,220.2	114.0	3,222.1	1.02	0.97	-0.32
10,068.0	90.70	179.50	7,076.9	-3,252.1	114.3	3,254.1	0.70	0.31	0.63
10,100.0	90.90	179.50	7,076.5	-3,284.1	114.6	3,286.1	0.63	0.63	0.00
10,132.0	90.30	179.80	7,076.1	-3,316.1	114.8	3,318.1	2.10	-1.88	0.94
10,163.0	90.40	179.90	7,076.0	-3,347.1	114.9	3,349.1	0.46	0.32	0.32
10,195.0	90.80	179.60	7,075.6	-3,379.1	115.0	3,381.1	1.56	1.25	-0.94
10,227.0	90.80	179.80	7,075.2	-3,411.1	115.2	3,413.1	0.62	0.00	0.63
10,259.0	90.90	179.40	7,074.7	-3,443.1	115.4	3,445.1	1.29	0.31	-1.25
10,291.0	90.50	179.00	7,074.3	-3,475.1	115.9	3,477.0	1.77	-1.25	-1.25
10,323.0	90.20	179.00	7,074.1	-3,507.1	116.4	3,509.0	0.94	-0.94	0.00
10,354.0	90.10	178.30	7,074.0	-3,538.1	117.2	3,540.0	2.28	-0.32	-2.26
10,386.0	90.20	178.60	7,073.9	-3,570.1	118.0	3,572.0	0.99	0.31	0.94
10,418.0	90.20	178.60	7,073.8	-3,602.1	118.8	3,604.0	0.00	0.00	0.00
10,450.0	90.20	178.40	7,073.7	-3,634.1	119.7	3,636.0	0.62	0.00	-0.63
10,482.0	90.10	178.50	7,073.6	-3,666.1	120.5	3,668.0	0.44	-0.31	0.31
10,513.0	90.10	178.20	7,073.6	-3,697.1	121.4	3,699.0	0.97	0.00	-0.97
10,545.0	89.80	178.10	7,073.6	-3,729.0	122.4	3,731.0	0.99	-0.94	-0.31
10,577.0	89.80	178.30	7,073.7	-3,761.0	123.4	3,763.0	0.62	0.00	0.63
10,608.0	89.80	178.70	7,073.8	-3,792.0	124.3	3,794.0	1.29	0.00	1.29
10,640.0	89.60	178.20	7,074.0	-3,824.0	125.1	3,826.0	1.68	-0.63	-1.56
10,672.0	89.30	178.30	7,074.3	-3,856.0	126.1	3,858.0	0.99	-0.94	0.31
10,704.0	89.60	178.30	7,074.6	-3,888.0	127.1	3,890.0	0.94	0.94	0.00
10,736.0	89.50	178.00	7,074.9	-3,919.9	128.1	3,922.0	0.99	-0.31	-0.94
10,768.0	89.30	177.70	7,075.2	-3,951.9	129.3	3,954.0	1.13	-0.63	-0.94
10,800.0	89.30	177.60	7,075.6	-3,983.9	130.6	3,986.0	0.31	0.00	-0.31
10,831.0	88.80	177.60	7,076.1	-4,014.9	131.9	4,017.0	1.61	-1.61	0.00
10,863.0	88.60	177.80	7,076.8	-4,046.8	133.2	4,049.0	0.88	-0.63	0.63
10,895.0	88.80	177.40	7,077.6	-4,078.8	134.5	4,081.0	1.40	0.63	-1.25
10,926.0	88.70	177.50	7,078.2	-4,109.8	135.9	4,112.0	0.46	-0.32	0.32
10,958.0	88.40	177.60	7,079.0	-4,141.7	137.3	4,144.0	0.99	-0.94	0.31
10,990.0	89.40	177.60	7,079.7	-4,173.7	138.6	4,176.0	3.13	3.13	0.00
11,022.0	89.80	177.30	7,079.9	-4,205.6	140.0	4,208.0	1.56	1.25	-0.94
11,054.0	89.90	176.90	7,080.0	-4,237.6	141.6	4,240.0	1.29	0.31	-1.25

DDC Survey Report



Company:	BTA Oil Producers	Local Co-ordinate Reference:	Well 20509 JV-P Ogden #1H
Project:	Eddy, NM	TVD Reference:	WELL @ 3100.0usft (Original Well Elev)
Site:	20509 JV-P Ogden #1H	MD Reference:	WELL @ 3100.0usft (Original Well Elev)
Well:	20509 JV-P Ogden #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User Db

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)
11,085.0	90.50	177.20	7,079.9	-4,268.6	143.2	4,271.0	2.16	1.94	0.97
11,117.0	90.80	177.30	7,079.5	-4,300.5	144.8	4,302.9	0.99	0.94	0.31
11,149.0	90.60	177.30	7,079.1	-4,332.5	146.3	4,334.9	0.63	-0.63	0.00
11,181.0	90.90	177.30	7,078.7	-4,364.4	147.8	4,366.9	0.94	0.94	0.00
11,213.0	90.90	177.60	7,078.2	-4,396.4	149.2	4,398.9	0.94	0.00	0.94
11,244.0	90.10	177.60	7,077.9	-4,427.4	150.5	4,429.9	2.58	-2.58	0.00
11,276.0	89.90	177.00	7,077.9	-4,459.3	152.0	4,461.9	1.98	-0.63	-1.88
11,308.0	89.40	176.70	7,078.1	-4,491.3	153.8	4,493.9	1.82	-1.56	-0.94
11,340.0	89.30	176.50	7,078.5	-4,523.2	155.7	4,525.9	0.70	-0.31	-0.63
11,372.0	90.50	177.20	7,078.5	-4,555.2	157.4	4,557.9	4.34	3.75	2.19
11,404.0	90.90	178.20	7,078.1	-4,587.2	158.7	4,589.9	3.37	1.25	3.13
11,436.0	90.90	178.20	7,077.6	-4,619.1	159.7	4,621.9	0.00	0.00	0.00
11,467.0	91.00	178.20	7,077.1	-4,650.1	160.7	4,652.9	0.32	0.32	0.00
11,499.0	90.80	178.50	7,076.6	-4,682.1	161.6	4,684.9	1.13	-0.63	0.94
11,531.0	91.10	178.60	7,076.1	-4,714.1	162.4	4,716.9	0.99	0.94	0.31
11,562.0	91.10	178.60	7,075.5	-4,745.1	163.2	4,747.9	0.00	0.00	0.00
11,594.0	91.20	178.90	7,074.8	-4,777.1	163.9	4,779.8	0.99	0.31	0.94
11,626.0	91.20	178.60	7,074.2	-4,809.0	164.6	4,811.8	0.94	0.00	-0.94
11,658.0	91.20	178.40	7,073.5	-4,841.0	165.4	4,843.8	0.62	0.00	-0.63
11,690.0	91.10	178.70	7,072.9	-4,873.0	166.2	4,875.8	0.99	-0.31	0.94
11,721.0	90.90	178.40	7,072.3	-4,904.0	167.0	4,906.8	1.16	-0.65	-0.97
11,753.0	90.60	178.40	7,071.9	-4,936.0	167.9	4,938.8	0.94	-0.94	0.00
11,785.0	90.50	178.50	7,071.6	-4,968.0	168.8	4,970.8	0.44	-0.31	0.31
11,817.0	90.60	178.30	7,071.3	-5,000.0	169.7	5,002.8	0.70	0.31	-0.63
11,849.0	90.40	178.50	7,071.0	-5,031.9	170.6	5,034.8	0.88	-0.63	0.63
11,881.0	90.30	178.60	7,070.8	-5,063.9	171.4	5,066.8	0.44	-0.31	0.31
11,912.0	90.20	179.00	7,070.7	-5,094.9	172.0	5,097.8	1.33	-0.32	1.29
11,943.0	90.10	178.90	7,070.6	-5,125.9	172.6	5,128.8	0.46	-0.32	-0.32
11,975.0	89.90	178.90	7,070.6	-5,157.9	173.2	5,160.8	0.63	-0.63	0.00
12,006.0	90.00	179.00	7,070.6	-5,188.9	173.8	5,191.8	0.46	0.32	0.32
12,038.0	90.10	179.00	7,070.6	-5,220.9	174.3	5,223.8	0.31	0.31	0.00
12,070.0	90.20	179.20	7,070.5	-5,252.9	174.8	5,255.8	0.70	0.31	0.63
12,102.0	90.30	179.40	7,070.4	-5,284.9	175.2	5,287.8	0.70	0.31	0.63
12,134.0	90.30	179.50	7,070.2	-5,316.9	175.5	5,319.8	0.31	0.00	0.31
12,166.0	90.20	179.80	7,070.1	-5,348.9	175.7	5,351.8	0.99	-0.31	0.94
12,198.0	90.20	179.80	7,070.0	-5,380.9	175.8	5,383.8	0.00	0.00	0.00
12,230.0	90.10	180.10	7,069.9	-5,412.9	175.9	5,415.7	0.99	-0.31	0.94
12,262.0	90.20	180.00	7,069.8	-5,444.9	175.8	5,447.7	0.44	0.31	-0.31
12,293.0	90.40	180.40	7,069.6	-5,475.9	175.7	5,478.7	1.44	0.65	1.29
12,325.0	90.50	180.70	7,069.4	-5,507.9	175.4	5,510.7	0.99	0.31	0.94
12,357.0	90.40	180.60	7,069.1	-5,539.9	175.1	5,542.6	0.44	-0.31	-0.31
12,388.0	90.60	181.10	7,068.9	-5,570.9	174.6	5,573.6	1.74	0.65	1.61
12,438.0	90.60	181.10	7,068.3	-5,620.9	173.6	5,623.5	0.00	0.00	0.00

DDC Survey Report



Company:	BTA Oil Producers	Local Co-ordinate Reference:	Well 20509 JV-P Ogden #1H
Project:	Eddy ,NM	TVD Reference:	WELL @ 3100.0usft (Original Well Elev)
Site:	20509 JV-P Ogden #1H	MD Reference:	WELL @ 3100.0usft (Original Well Elev)
Well:	20509 JV-P Ogden #1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1 Single User 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)
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Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,600.0	6,599.5	-36.2	1.4	Tie-In
12,438.0	7,068.3	-5,620.9	173.6	TD

Checked By: _____	Approved By: _____	Date: _____
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471

500

FedEx *US Airbill*
Express

 FedEx
Tracking
Number 8651 9440 8339

1 From *Please print and press hard*

 Date 02/02/10 Sender's FedEx Account Number 1013-3770-7

 Sender's Name BTA OIL PRODUCERS Phone (432) 682-3753

 Company BTA OIL PRODUCERS

 Address 104 S PECOS ST

 City MIDLAND State TX ZIP 79701-5099
2 Your Internal Billing Reference

 First 24 characters will appear on invoice. 20509 Ogden #1H0N21
3 To

 Recipient's Name BLM Phone (575) 887-6544

 Company BLM

 Recipient's Address 620 E Greene Street

We cannot deliver to P.O. boxes or P.O. ZIP codes.

 Address Carlsbad State NM ZIP 88220

To request a package be held at a specific FedEx location, print FedEx address here.

 City Carlsbad State NM ZIP 88220

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SDA11

0215

4a Express Package Service

☒ FedEx Priority Overnight Next business morning ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected	☐ FedEx Standard Overnight Next business afternoon * Saturday Delivery NOT available	☐ FedEx First Overnight Earliest next business morning delivery to select locations * Saturday Delivery NOT available
☐ FedEx 2Day Second business day * Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected	☐ FedEx Express Saver Third business day * Saturday Delivery NOT available	

* To most locations.

4b Express Freight Service

☐ FedEx 1Day Freight* Next business day ** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	☐ FedEx 2Day Freight Second business day ** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected	☐ FedEx 3Day Freight Third business day ** Saturday Delivery NOT available
--	--	--

* Call for Confirmation ** To most locations.

5 Packaging

☒ FedEx Envelope*	☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak	☐ FedEx Box	☐ FedEx Tube	☐ Other
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* Declared value limit \$500

6 Special Handling

☐ SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.	☐ HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.	☐ HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations
--	--	--

Does this shipment contain dangerous goods?
One box must be checked --

☒ No	☐ Yes As per attached Shipper's Declaration	☐ Yes Shipper's Declaration not required	☐ Dry Ice Dry ice, 9, UN 1845 x _____ kg
--	--	---	--

 Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. ☐ Cargo Aircraft Only

7 Payment

☒ Sender Acct. No. in Section 1 will be billed	☐ Recipient	☐ Third Party	☐ Credit Card	☐ Cash/Check
---	---	---	---	--

 FedEx Acct. No. _____ Exp. Date _____
Credit Card No. _____

Total Packages	Total Weight	Total Declared Value†
		\$ _____ .00

† Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

☐ No Signature Required Package may be left without obtaining a signature for delivery	☐ Direct Signature Someone at recipient's address may sign for delivery. <i>Fee applies.</i>	☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. <i>Fee applies.</i>
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Tracking no.: 865194408339

Select time format: [12H](#) | [24H](#)[E-mail notifications](#)**Delivered****Delivered**

Signed for by: A.ONSUREZ

Shipment Dates

Destination

Ship date ⓘ Feb 3, 2010

Delivery date ⓘ Feb 4, 2010 10:59 AM

CARLSBAD, NM

[Signature Proof of Delivery](#) ⓘ

Shipment Facts

[Help](#)

Service type	Priority Overnight	Reference	20109 OGDEN 1H

Shipment Travel History

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Date/Time	Activity	Location	Details
Feb 4, 2010 10:59 AM	Delivered	CARLSBAD, NM	