

# Victor P. Smith Oil Co.

State Lease 18593 No. 2

Calcasieu Parish, LA

Rig: Crown 2 RKB = 14'

Surface X = 1,428,922.00', Y = 594,115.00' (NAD27)

# Tri-City Services, Inc.

P. O. Box 81858 Lafayette, LA 70598

Phone: 337-264-1399 Fax: 337-264-3958

Date: 02/07/2011

## Survey Depths:

Surface to 3,959' MD, Janic Gyro Multi-shot Surveys

4,065' MD to 7,787' MD, Driltech MWD Surveys

7,833' MD to 8,202' MD, Janic Multi-shot Surveys

## State Lease Well No. 2 Composite Survey Report

## Minimum Curvature

## Plan Vertical Section = 60.82°

MD	Inc.	Az.	TVD	SubseaTVD	N/S	E/W	Grid Y	Grid X	Cl. Dist.	Cl. Dir.	DLS
0.00	0.00	0.00	0.00	14.00	0.00	0.00	594,115.00	1,428,922.00	0.00	0.00	0.00
100.00	0.50	174.94	100.00	-86.00	-0.43	0.04	594,114.57	1,428,922.04	0.44	174.94	0.50
200.00	0.75	159.88	199.99	-185.99	-1.48	0.30	594,113.52	1,428,922.30	1.51	168.49	0.30
300.00	0.75	166.84	299.98	-285.98	-2.74	0.68	594,112.26	1,428,922.68	2.82	166.11	0.09
400.00	0.75	175.81	399.98	-385.98	-4.03	0.87	594,110.97	1,428,922.87	4.12	167.76	0.12
500.00	0.75	169.78	499.97	-485.97	-5.32	1.04	594,109.68	1,428,923.04	5.42	168.97	0.08
600.00	0.75	155.75	599.96	-585.96	-6.56	1.42	594,108.44	1,428,923.42	6.72	167.78	0.18
700.00	0.50	194.72	699.95	-685.95	-7.58	1.58	594,107.42	1,428,923.58	7.74	168.23	0.48
800.00	0.25	145.69	799.95	-785.95	-8.18	1.59	594,106.82	1,428,923.59	8.34	168.99	0.39
900.00	0.25	97.66	899.95	-885.95	-8.39	1.93	594,106.61	1,428,923.93	8.61	167.04	0.20
1,000.00	0.25	174.63	999.95	-985.95	-8.64	2.17	594,106.36	1,428,924.17	8.91	165.91	0.31
1,100.00	0.25	231.60	1,099.95	-1,085.95	-8.99	2.02	594,106.01	1,428,924.02	9.22	167.36	0.24
1,200.00	0.25	104.56	1,199.95	-1,185.95	-9.18	2.06	594,105.82	1,428,924.06	9.41	167.37	0.45
1,300.00	0.25	191.53	1,299.95	-1,285.95	-9.45	2.23	594,105.55	1,428,924.23	9.71	166.75	0.34
1,400.00	0.25	294.50	1,399.95	-1,385.95	-9.57	1.98	594,105.43	1,428,923.98	9.78	168.30	0.39
1,500.00	0.25	169.47	1,499.95	-1,485.95	-9.70	1.82	594,105.30	1,428,923.82	9.87	169.35	0.44
1,600.00	0.25	217.44	1,599.95	-1,585.95	-10.09	1.73	594,104.91	1,428,923.73	10.23	170.26	0.20
1,700.00	0.25	24.41	1,699.95	-1,685.95	-10.06	1.69	594,104.94	1,428,923.69	10.20	170.47	0.50
1,800.00	0.25	229.22	1,799.95	-1,785.95	-10.00	1.61	594,105.00	1,428,923.61	10.13	170.84	0.49
1,900.00	0.25	259.19	1,899.94	-1,885.94	-10.19	1.23	594,104.81	1,428,923.23	10.26	173.09	0.13
2,000.00	0.50	209.16	1,999.94	-1,985.94	-10.61	0.81	594,104.39	1,428,922.81	10.64	175.65	0.39
2,100.00	0.25	237.13	2,099.94	-2,085.94	-11.11	0.41	594,103.89	1,428,922.41	11.12	177.88	0.30
2,200.00	0.50	219.10	2,199.94	-2,185.94	-11.57	-0.05	594,103.43	1,428,921.95	11.57	180.23	0.27

2,300.00	0.50	237.07	2,299.93	-2,285.93	-12.14	-0.69	594,102.86	1,428,921.31	12.16	183.24	0.16
2,400.00	0.50	231.03	2,399.93	-2,385.93	-12.65	-1.39	594,102.35	1,428,920.61	12.73	186.28	0.05
2,500.00	0.75	216.00	2,499.92	-2,485.92	-13.46	-2.12	594,101.54	1,428,919.88	13.62	188.94	0.30
2,600.00	0.25	233.97	2,599.92	-2,585.92	-14.12	-2.68	594,100.88	1,428,919.32	14.37	190.74	0.52
2,700.00	0.25	188.94	2,699.92	-2,685.92	-14.46	-2.89	594,100.54	1,428,919.11	14.75	191.30	0.19
2,800.00	0.25	358.86	2,799.92	-2,785.92	-14.46	-2.93	594,100.54	1,428,919.07	14.75	191.45	0.50
2,900.00	0.25	225.78	2,899.92	-2,885.92	-14.39	-3.09	594,100.61	1,428,918.91	14.72	192.11	0.46
3,000.00	0.25	33.70	2,999.92	-2,985.92	-14.36	-3.12	594,100.64	1,428,918.88	14.70	192.27	0.50
3,100.00	0.25	330.62	3,099.92	-3,085.92	-13.99	-3.11	594,101.01	1,428,918.89	14.33	192.53	0.26
3,200.00	0.25	299.53	3,199.92	-3,185.92	-13.69	-3.41	594,101.31	1,428,918.59	14.11	193.97	0.13
3,300.00	0.50	328.45	3,299.91	-3,285.91	-13.21	-3.82	594,101.79	1,428,918.18	13.76	196.14	0.31
3,400.00	0.50	310.37	3,399.91	-3,385.91	-12.56	-4.38	594,102.44	1,428,917.62	13.30	199.25	0.16
3,500.00	0.25	338.29	3,499.91	-3,485.91	-12.07	-4.80	594,102.93	1,428,917.20	12.99	201.67	0.30
3,600.00	0.25	358.21	3,599.91	-3,585.91	-11.65	-4.89	594,103.35	1,428,917.11	12.64	202.75	0.09
3,700.00	0.25	11.13	3,699.91	-3,685.91	-11.22	-4.85	594,103.78	1,428,917.15	12.22	203.38	0.06
3,800.00	0.25	332.05	3,799.91	-3,785.91	-10.81	-4.91	594,104.19	1,428,917.09	11.88	204.42	0.17
3,900.00	0.25	342.97	3,899.90	-3,885.90	-10.41	-5.08	594,104.59	1,428,916.92	11.58	205.99	0.05
3,959.00	0.25	4.48	3,958.90	-3,944.90	-10.16	-5.10	594,104.84	1,428,916.90	11.37	206.67	0.16
4,065.00	0.50	52.90	4,064.90	-4,050.90	-9.65	-4.72	594,105.35	1,428,917.28	10.74	206.05	0.36
4,158.00	2.10	52.30	4,157.88	-4,143.88	-8.36	-3.05	594,106.64	1,428,918.95	8.90	200.00	1.72
4,251.00	4.40	54.30	4,250.72	-4,236.72	-5.24	1.20	594,109.76	1,428,923.20	5.38	167.10	2.48
4,345.00	8.10	60.30	4,344.15	-4,330.15	0.15	9.88	594,115.15	1,428,931.88	9.89	89.15	3.99
4,438.00	9.70	62.70	4,436.02	-4,422.02	6.99	22.54	594,121.99	1,428,944.54	23.60	72.78	1.77
4,530.00	11.10	60.30	4,526.51	-4,512.51	14.93	37.12	594,129.93	1,428,959.12	40.01	68.09	1.59
4,624.00	11.80	62.40	4,618.64	-4,604.64	23.87	53.50	594,138.87	1,428,975.50	58.58	65.96	0.87
4,717.00	13.70	59.40	4,709.34	-4,695.34	33.88	71.40	594,148.88	1,428,993.40	79.03	64.62	2.16
4,810.00	13.90	59.20	4,799.66	-4,785.66	45.20	90.48	594,160.20	1,429,012.48	101.14	63.45	0.22
4,904.00	14.30	59.70	4,890.83	-4,876.83	56.84	110.20	594,171.84	1,429,032.20	124.00	62.71	0.44
4,997.00	15.50	57.80	4,980.70	-4,966.70	69.26	130.63	594,184.26	1,429,052.63	147.86	62.07	1.39
5,090.00	17.40	57.10	5,069.89	-5,055.89	83.44	152.83	594,198.44	1,429,074.83	174.12	61.37	2.05
5,183.00	18.10	59.40	5,158.46	-5,144.46	98.34	176.94	594,213.34	1,429,098.94	202.43	60.93	1.07
5,276.00	18.50	60.40	5,246.76	-5,232.76	112.99	202.20	594,227.99	1,429,124.20	231.63	60.80	0.55
5,370.00	20.10	59.90	5,335.47	-5,321.47	128.45	229.14	594,243.45	1,429,151.14	262.69	60.73	1.71
5,463.00	22.00	60.80	5,422.26	-5,408.26	144.97	258.18	594,259.97	1,429,180.18	296.09	60.69	2.07
5,553.00	23.80	61.00	5,505.16	-5,491.16	162.00	288.78	594,277.00	1,429,210.78	331.11	60.71	2.00
5,646.00	23.90	61.70	5,590.22	-5,576.22	180.03	321.78	594,295.03	1,429,243.78	368.71	60.77	0.32
5,739.00	24.80	61.10	5,674.95	-5,660.95	198.38	355.44	594,313.38	1,429,277.44	407.05	60.83	1.00
5,833.00	25.00	60.40	5,760.21	-5,746.21	217.72	389.97	594,332.72	1,429,311.97	446.63	60.83	0.38
5,926.00	24.60	59.50	5,844.64	-5,830.64	237.25	423.74	594,352.25	1,429,345.74	485.64	60.76	0.59

6,019.00	24.50	59.40	5,929.23	-5,915.23	256.89	457.01	594,371.89	1,429,379.01	524.27	60.66	0.12
6,112.00	24.50	60.30	6,013.85	-5,999.85	276.26	490.36	594,391.26	1,429,412.36	562.83	60.60	0.40
6,206.00	24.50	61.70	6,099.39	-6,085.39	295.16	524.45	594,410.16	1,429,446.45	601.81	60.63	0.62
6,298.00	25.00	63.20	6,182.94	-6,168.94	312.97	558.60	594,427.97	1,429,480.60	640.30	60.74	0.87
6,391.00	25.30	60.30	6,267.13	-6,253.13	331.68	593.41	594,446.68	1,429,515.41	679.81	60.80	1.36
6,484.00	25.70	60.30	6,351.07	-6,337.07	351.51	628.18	594,466.51	1,429,550.18	719.84	60.77	0.43
6,578.00	25.90	59.40	6,435.70	-6,421.70	372.06	663.56	594,487.06	1,429,585.56	760.75	60.72	0.47
6,670.00	24.50	60.80	6,518.94	-6,504.94	391.60	697.51	594,506.60	1,429,619.51	799.92	60.69	1.65
6,764.00	24.50	60.10	6,604.48	-6,590.48	410.82	731.42	594,525.82	1,429,653.42	838.90	60.68	0.31
6,857.00	24.50	60.80	6,689.10	-6,675.10	429.84	764.97	594,544.84	1,429,686.97	877.46	60.67	0.31
6,950.00	24.10	59.40	6,773.87	-6,759.87	448.92	798.14	594,563.92	1,429,720.14	915.73	60.64	0.75
7,044.00	24.10	62.50	6,859.68	-6,845.68	467.55	831.69	594,582.55	1,429,753.69	954.10	60.66	1.35
7,137.00	23.90	60.40	6,944.64	-6,930.64	485.62	864.91	594,600.62	1,429,786.91	991.92	60.69	0.94
7,230.00	25.20	60.60	7,029.23	-7,015.23	504.65	898.54	594,619.65	1,429,820.54	1,030.55	60.68	1.40
7,322.00	25.30	60.60	7,112.44	-7,098.44	523.91	932.73	594,638.91	1,429,854.73	1,069.80	60.68	0.11
7,417.00	24.80	58.70	7,198.50	-7,184.50	544.23	967.44	594,659.23	1,429,889.44	1,110.01	60.64	1.00
7,510.00	24.50	61.00	7,283.03	-7,269.03	563.71	1,000.97	594,678.71	1,429,922.97	1,148.79	60.61	1.08
7,603.00	24.30	60.60	7,367.72	-7,353.72	582.45	1,034.51	594,697.45	1,429,956.51	1,187.21	60.62	0.28
7,695.00	25.20	61.00	7,451.27	-7,437.27	601.24	1,068.13	594,716.24	1,429,990.13	1,225.72	60.63	1.00
7,787.00	25.30	61.30	7,534.48	-7,520.48	620.18	1,102.51	594,735.18	1,430,024.51	1,264.97	60.64	0.18
7,833.00	25.25	60.77	7,576.08	-7,562.08	629.69	1,119.69	594,744.69	1,430,041.69	1,284.61	60.65	0.50
7,895.00	25.25	59.77	7,632.15	-7,618.15	642.80	1,142.65	594,757.80	1,430,064.65	1,311.05	60.64	0.69
7,958.00	25.25	60.77	7,689.14	-7,675.14	656.13	1,165.99	594,771.13	1,430,087.99	1,337.92	60.63	0.68
8,020.00	25.00	59.77	7,745.27	-7,731.27	669.18	1,188.85	594,784.18	1,430,110.85	1,364.25	60.63	0.79
8,082.00	25.00	60.77	7,801.46	-7,787.46	682.18	1,211.60	594,797.18	1,430,133.60	1,390.45	60.62	0.68
8,144.00	24.75	61.77	7,857.71	-7,843.71	694.71	1,234.47	594,809.71	1,430,156.47	1,416.53	60.63	0.79
8,202.00	24.75	61.77	7,910.38	-7,896.38	706.20	1,255.86	594,821.20	1,430,177.86	1,440.80	60.65	0.00