

30-025-42214



HOBBS OCD

JUL 02 2015

Customer Name: Yates Petroleum Corp
 Well Name: Resolute BTO Federal #1H
 API Number: 30-025-42214
 County / Parish: Lea County, NM

RECEIVED

M.W.D. Operator: George Sakas
 Directional Driller: Irby LeJeune
 Total Magnetic Correction: 6.77
 Job #: NM-522

Vertical Section: 179.67

Tie In Survey(s) Provided By:

MULTI SHOT

	Meas. Depth	Inc.	Azm.	T.V.D.	Ver. Sect.	+N / -S	+E / -W	Dist.	Angle	DLS
Tie - In										
0	1100.00	0.58	298.19	1099.98	0.62	-0.66	-5.93	5.96	263.67	0.29
1	1222.00	0.60	320.40	1221.97	-0.16	0.12	-6.88	6.88	271.03	0.19
2	1409.00	0.50	327.60	1408.97	-1.61	1.57	-7.94	8.10	281.16	0.06
3	1596.00	0.40	318.90	1595.96	-2.80	2.75	-8.81	9.23	287.33	0.06
4	1784.00	0.30	311.80	1783.96	-3.63	3.57	-9.61	10.25	290.39	0.06
5	1973.00	0.10	239.20	1972.95	-3.87	3.82	-10.12	10.81	290.66	0.15
6	2160.00	0.10	110.70	2159.95	-3.73	3.67	-10.11	10.75	289.98	0.10
7	2346.00	0.20	292.20	2345.95	-3.80	3.74	-10.25	10.91	290.04	0.16
8	2534.00	0.20	295.00	2533.95	-4.07	4.00	-10.86	11.57	290.24	0.01
9	2720.00	0.10	112.80	2719.95	-4.14	4.08	-11.00	11.73	290.34	0.16
10	2906.00	0.20	258.40	2905.95	-4.01	3.95	-11.17	11.85	289.47	0.15
11	3093.00	0.10	12.30	3092.95	-4.11	4.04	-11.45	12.15	289.44	0.14
12	3280.00	0.20	75.50	3279.95	-4.35	4.28	-11.10	11.90	291.10	0.10
13	3467.00	0.30	110.80	3466.95	-4.25	4.19	-10.33	11.15	292.09	0.10
14	3654.00	0.40	136.30	3653.95	-3.60	3.55	-9.42	10.07	290.63	0.10
15	3841.00	0.30	139.20	3840.94	-2.75	2.70	-8.65	9.06	287.36	0.05
16	4027.00	0.30	143.70	4026.94	-1.99	1.94	-8.04	8.27	283.58	0.01
17	4213.00	0.20	149.00	4212.94	-1.32	1.27	-7.59	7.69	279.51	0.06
18	4399.00	0.60	115.80	4398.93	-0.61	0.57	-6.54	6.57	274.97	0.24
19	4586.00	0.20	171.70	4585.93	0.15	-0.18	-5.61	5.62	268.17	0.28
20	4773.00	0.60	141.20	4772.92	1.24	-1.27	-4.95	5.11	255.67	0.24
21	4832.00	0.40	127.00	4831.92	1.60	-1.63	-4.60	4.88	250.47	0.40
22	4965.00	0.30	132.50	4964.92	2.12	-2.15	-3.97	4.51	241.61	0.08
23	5152.00	0.40	157.50	5151.92	3.06	-3.08	-3.36	4.56	227.48	0.10
24	5339.00	0.30	212.90	5338.91	4.07	-4.09	-3.37	5.30	219.50	0.18
25	5525.00	0.40	177.80	5524.91	5.13	-5.15	-3.61	6.29	215.05	0.12
26	5712.00	0.40	166.80	5711.91	6.42	-6.44	-3.44	7.30	208.11	0.04
27	5899.00	0.30	175.40	5898.90	7.54	-7.56	-3.25	8.23	203.26	0.06
28	6086.00	0.40	8.50	6085.90	7.39	-7.40	-3.12	8.03	202.82	0.37
29	6272.00	0.40	40.30	6271.90	6.25	-6.27	-2.60	6.78	202.53	0.12
30	6459.00	0.80	27.90	6458.89	4.61	-4.62	-1.57	4.87	198.75	0.22
31	6647.00	0.80	8.70	6646.87	2.15	-2.16	-0.75	2.29	199.25	0.14
32	6834.00	0.60	350.00	6833.85	-0.10	0.10	-0.73	0.73	277.57	0.16
33	7021.00	0.40	341.20	7020.85	-1.69	1.68	-1.11	2.01	326.61	0.11
34	7207.00	0.40	314.60	7206.84	-2.76	2.75	-1.78	3.27	327.11	0.10
35	7394.00	0.40	270.90	7393.84	-3.23	3.22	-2.90	4.33	318.02	0.16
36	7581.00	0.40	346.30	7580.84	-3.88	3.86	-3.70	5.35	316.21	0.26
37	7765.00	0.40	204.80	7764.83	-3.93	3.90	-4.12	5.68	313.42	0.41
38	7953.00	0.10	205.70	7952.83	-3.19	3.16	-4.47	5.47	305.25	0.16
39	8139.00	0.10	254.20	8138.83	-3.00	2.97	-4.70	5.56	302.30	0.04
40	8326.00	0.30	168.30	8325.83	-2.47	2.45	-4.76	5.35	297.21	0.17

41	8513.00	0.10	335.90	8512.83	-2.14	2.11	-4.72	5.17	294.12	0.21
42	8702.00	0.80	346.70	8701.82	-3.58	3.55	-5.09	6.21	304.87	0.37
43	8889.00	0.70	330.80	8888.81	-5.85	5.82	-5.95	8.32	314.35	0.12
44	9076.00	0.70	303.00	9075.79	-7.48	7.44	-7.47	10.54	314.89	0.18
45	9262.00	0.90	269.10	9261.78	-8.09	8.03	-9.88	12.73	309.11	0.27
46	9449.00	0.60	17.10	9448.77	-9.01	8.95	-11.06	14.22	308.96	0.66
47	9636.00	0.90	213.60	9635.76	-8.72	8.66	-11.59	14.46	306.77	0.79
48	9823.00	0.40	282.00	9822.75	-7.65	7.57	-13.04	15.08	300.14	0.45
49	9917.00	0.60	210.60	9916.75	-7.29	7.21	-13.61	15.40	297.93	0.64
50	10010.00	0.40	206.20	10009.74	-6.58	6.50	-14.00	15.44	294.92	0.22
51	10103.00	0.60	218.30	10102.74	-5.91	5.83	-14.44	15.58	291.98	0.24
52	10198.00	0.60	270.40	10197.74	-5.53	5.44	-15.25	16.19	289.65	0.55
53	10330.00	8.00	168.70	10329.31	3.49	-3.57	-14.14	14.58	255.82	6.17
54	10376.00	13.10	169.30	10374.52	11.77	-11.84	-12.54	17.25	226.65	11.09
55	10416.00	19.60	176.90	10412.88	22.94	-23.01	-11.34	25.65	206.23	17.07
56	10463.00	24.30	180.60	10456.47	40.50	-40.56	-11.01	42.03	195.19	10.42
57	10510.00	26.50	180.60	10498.92	60.65	-60.72	-11.22	61.75	190.47	4.68
58	10557.00	32.90	178.80	10539.73	83.92	-83.99	-11.07	84.71	187.51	13.75
59	10603.00	40.10	177.10	10576.68	111.25	-111.31	-10.05	111.76	185.16	15.80
60	10650.00	45.30	176.00	10611.21	143.07	-143.11	-8.12	143.34	183.25	11.18
61	10698.00	49.30	176.00	10643.76	178.26	-178.30	-5.66	178.39	181.82	8.33
62	10744.00	52.70	176.80	10672.70	213.95	-213.97	-3.42	214.00	180.92	7.51
63	10791.00	57.30	178.20	10699.65	252.41	-252.42	-1.76	252.43	180.40	10.09
64	10837.00	62.10	180.00	10722.85	292.11	-292.12	-1.15	292.12	180.23	10.97
65	10884.00	66.40	180.80	10743.27	334.43	-334.44	-1.45	334.44	180.25	9.28
66	10931.00	72.40	180.40	10759.80	378.40	-378.41	-1.91	378.42	180.29	12.79
67	10961.00	77.20	179.70	10767.66	407.34	-407.35	-1.93	407.36	180.27	16.16
68	11008.00	81.40	177.70	10776.39	453.50	-453.51	-0.88	453.51	180.11	9.87
69	11056.00	85.80	176.00	10781.74	501.13	-501.13	1.75	501.13	179.80	9.82
70	11101.00	91.10	174.90	10782.95	545.97	-545.95	5.31	545.98	179.44	12.03
71	11132.00	92.60	174.60	10781.95	576.84	-576.81	8.15	576.86	179.19	4.93
72	11195.00	91.10	177.10	10779.92	639.66	-639.60	12.71	639.73	178.86	4.63
73	11242.00	90.60	177.60	10779.22	686.62	-686.55	14.88	686.71	178.76	1.50
74	11289.00	90.90	177.80	10778.61	733.59	-733.50	16.76	733.70	178.69	0.77
75	11382.00	89.20	178.40	10778.53	826.55	-826.45	19.85	826.69	178.62	1.94
76	11475.00	89.40	178.30	10779.66	919.52	-919.40	22.53	919.68	178.60	0.24
77	11568.00	89.50	178.70	10780.55	1012.49	-1012.37	24.96	1012.67	178.59	0.44
78	11661.00	89.60	179.20	10781.28	1105.48	-1105.35	26.66	1105.67	178.62	0.55
79	11754.00	89.20	179.90	10782.26	1198.48	-1198.34	27.39	1198.65	178.69	0.87
80	11847.00	90.50	180.50	10782.50	1291.47	-1291.34	27.07	1291.62	178.80	1.54
81	11941.00	89.80	181.20	10782.26	1385.45	-1385.32	25.67	1385.56	178.94	1.05
82	12034.00	91.30	180.90	10781.36	1478.41	-1478.30	23.97	1478.50	179.07	1.64
83	12127.00	90.90	180.80	10779.58	1571.38	-1571.27	22.59	1571.44	179.18	0.44
84	12221.00	90.60	181.50	10778.35	1665.34	-1665.25	20.70	1665.37	179.29	0.81
85	12315.00	90.70	182.10	10777.28	1759.27	-1759.19	17.75	1759.28	179.42	0.65
86	12409.00	91.50	180.40	10775.48	1853.21	-1853.15	15.70	1853.22	179.51	2.00
87	12502.00	91.80	180.50	10772.80	1946.16	-1946.11	14.97	1946.17	179.56	0.34
88	12595.00	91.90	181.00	10769.80	2039.10	-2039.05	13.76	2039.10	179.61	0.55
89	12688.00	90.90	179.70	10767.52	2132.06	-2132.02	13.19	2132.06	179.65	1.76
90	12780.00	91.80	180.30	10765.36	2224.03	-2223.99	13.19	2224.03	179.66	1.18
91	12875.00	90.90	179.50	10763.12	2319.00	-2318.96	13.35	2319.00	179.67	1.27
92	12968.00	90.10	179.10	10762.31	2412.00	-2411.95	14.49	2412.00	179.66	0.96
93	13061.00	90.20	179.20	10762.06	2504.99	-2504.94	15.87	2504.99	179.64	0.15
94	13154.00	90.70	179.40	10761.33	2597.99	-2597.93	17.01	2597.99	179.62	0.58
95	13247.00	89.60	179.10	10761.09	2690.98	-2690.92	18.22	2690.98	179.61	1.23

96	13340.00	90.30	179.60	10761.17	2783.98	-2783.91	19.28	2783.98	179.60	0.92
97	13434.00	90.50	179.70	10760.51	2877.98	-2877.91	19.85	2877.98	179.60	0.24
98	13528.00	90.10	179.90	10760.02	2971.98	-2971.91	20.18	2971.98	179.61	0.48
99	13621.00	90.80	180.50	10759.29	3064.97	-3064.90	19.86	3064.97	179.63	0.99
100	13716.00	90.10	179.10	10758.55	3159.96	-3159.90	20.19	3159.96	179.63	1.65
101	13809.00	90.30	180.20	10758.22	3252.96	-3252.89	20.76	3252.96	179.63	1.20
102	13903.00	90.40	179.00	10757.65	3346.96	-3346.89	21.41	3346.96	179.63	1.28
103	13996.00	90.50	179.50	10756.92	3439.95	-3439.88	22.63	3439.95	179.62	0.55
104	14090.00	90.60	179.90	10756.01	3533.95	-3533.87	23.12	3533.95	179.63	0.44
105	14184.00	91.00	180.20	10754.70	3627.93	-3627.86	23.04	3627.93	179.64	0.53
106	14278.00	91.30	180.40	10752.81	3721.91	-3721.84	22.55	3721.91	179.65	0.38
107	14372.00	90.50	180.30	10751.34	3815.89	-3815.83	21.97	3815.89	179.67	0.86
108	14465.00	90.40	179.70	10750.61	3908.89	-3908.82	21.97	3908.89	179.68	0.65
109	14558.00	91.40	179.30	10749.15	4001.87	-4001.81	22.78	4001.87	179.67	1.16
110	14651.00	91.20	179.30	10747.04	4094.85	-4094.78	23.92	4094.85	179.67	0.22
111	14745.00	91.00	179.40	10745.23	4188.83	-4188.75	24.99	4188.83	179.66	0.24
112	14839.00	90.90	179.60	10743.67	4282.81	-4282.74	25.81	4282.81	179.65	0.24
113	14933.00	90.90	179.30	10742.20	4376.80	-4376.72	26.71	4376.80	179.65	0.32
114	15027.00	91.20	179.40	10740.47	4470.78	-4470.70	27.77	4470.78	179.64	0.34
115	15121.00	91.60	179.60	10738.18	4564.76	-4564.67	28.59	4564.76	179.64	0.48
116	15215.00	90.70	179.70	10736.29	4658.74	-4658.64	29.17	4658.74	179.64	0.96
117	15307.00	91.00	179.60	10734.93	4750.73	-4750.63	29.73	4750.73	179.64	0.34
118	15399.00	90.90	180.00	10733.40	4842.71	-4842.62	30.05	4842.71	179.64	0.45
PTB	15455.00	90.90	180.00	10732.52	4898.70	-4898.61	30.05	4898.70	179.65	0.00