



February 20, 2015

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

HOBBS OCD

AUG 20 2015

RECEIVED

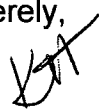
Attn: David Cook

Re: **Butter Cup 36 State Com 3H**

Please find enclosed a copy of the survey from 0' to 8285' ran on the above referenced well.

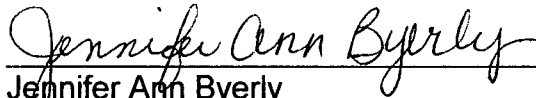
If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 20 day of Feb.,
A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas

AUG 31 2015



Company: Devon Energy
Lease/Well: Butter Cup 36 State Com/3H
Location: Lea County, New Mexico
Rig Name: HP 394
State: New Mexico
Latitude: 32.71, Longitude: -103.52
GRID North is 0.44 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 25 feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut

Minimum Curvature Method

Report Date/Time: 2/20/2015 / 16:06

VES Survey International

Midland, Texas

432-563-5444

Surveyor: Adam Askew

Butter Cup 36 State Com 3H / API 30-025-42367

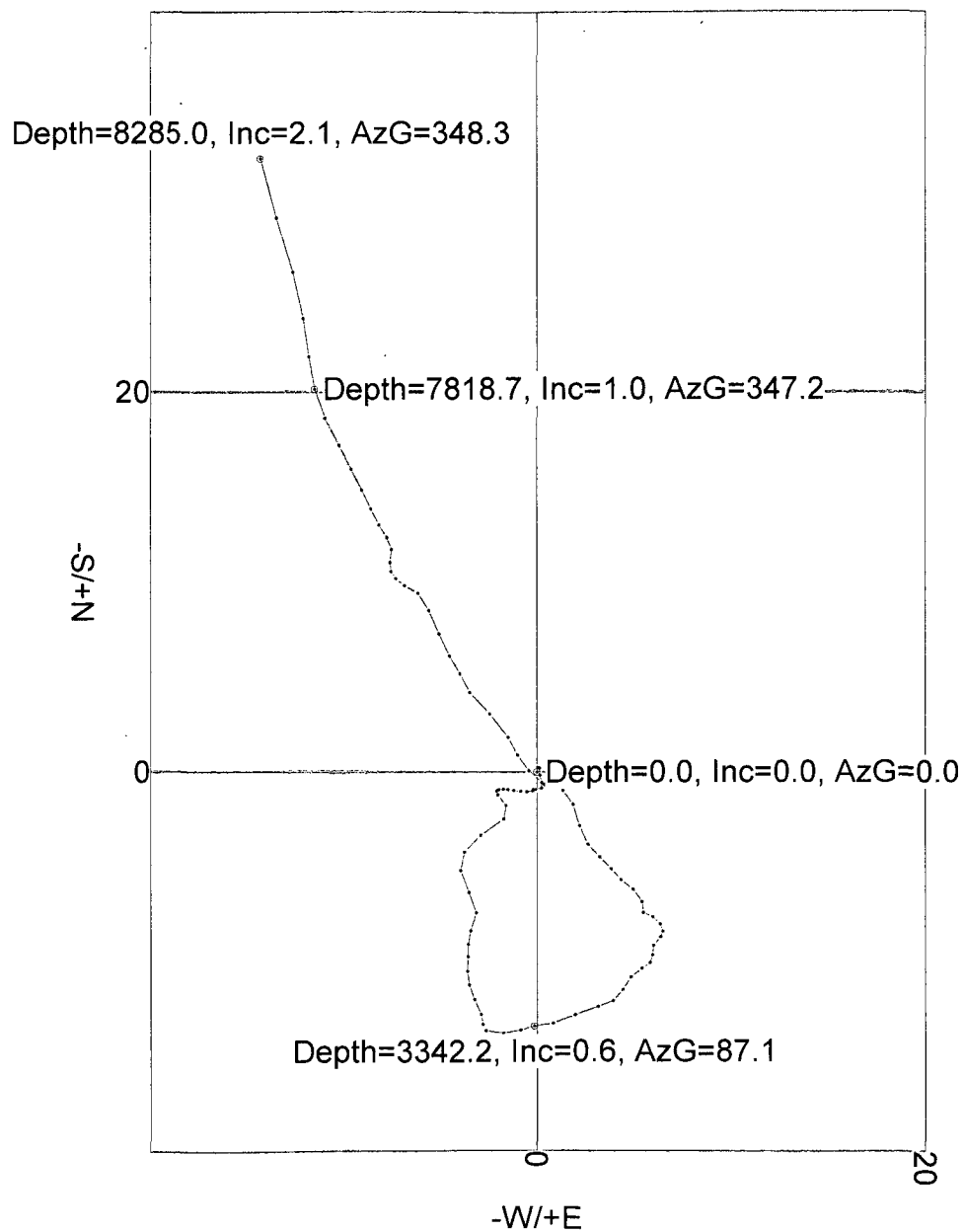
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
171.38	0.15	8.99	171.38	0.23	0.04	0.23	0.23	8.99	0.09
264.64	0.20	154.68	264.64	0.20	0.13	0.20	0.24	31.57	0.36
357.90	0.29	190.70	357.90	-0.17	0.15	-0.17	0.23	138.42	0.18
451.16	0.27	141.45	451.16	-0.57	0.25	-0.57	0.62	156.73	0.25
544.42	0.23	235.47	544.42	-0.85	0.23	-0.85	0.88	164.77	0.39
637.68	0.22	275.93	637.68	-0.93	-0.10	-0.93	0.94	186.16	0.17
730.94	0.10	102.43	730.94	-0.93	-0.20	-0.93	0.95	192.32	0.34
824.20	0.14	243.19	824.20	-1.00	-0.23	-1.00	1.02	192.81	0.24
917.46	0.25	268.50	917.46	-1.05	-0.53	-1.05	1.18	206.63	0.14
1010.72	0.14	288.41	1010.72	-1.02	-0.84	-1.02	1.32	219.33	0.13
1103.98	0.32	271.80	1103.97	-0.98	-1.21	-0.98	1.55	230.98	0.20
1197.24	0.07	310.22	1197.23	-0.93	-1.51	-0.93	1.78	238.25	0.29
1290.50	0.22	268.39	1290.49	-0.90	-1.74	-0.90	1.96	242.48	0.19
1383.76	0.08	255.14	1383.75	-0.93	-1.98	-0.93	2.19	244.94	0.16
1477.02	0.08	224.63	1477.01	-0.99	-2.09	-0.99	2.31	244.66	0.05
1570.28	0.25	148.23	1570.27	-1.21	-2.03	-1.21	2.36	239.18	0.26
1663.54	0.61	140.26	1663.53	-1.77	-1.60	-1.77	2.39	222.20	0.39
1756.80	0.66	233.64	1756.79	-2.47	-1.72	-2.47	3.01	214.80	0.99

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1850.06	1.17	234.94	1850.03	-3.33	-2.93	-3.33	4.43	221.28	0.55
1943.32	0.42	190.38	1943.29	-4.22	-3.77	-4.22	5.65	221.77	0.98
2036.58	0.80	191.84	2036.54	-5.19	-3.96	-5.19	6.53	217.35	0.40
2129.84	0.94	132.32	2129.79	-6.34	-3.53	-6.34	7.26	209.12	0.93
2223.10	0.72	197.20	2223.04	-7.41	-3.14	-7.41	8.05	202.97	0.97
2316.36	0.50	196.68	2316.30	-8.36	-3.43	-8.36	9.04	202.31	0.24
2409.62	0.40	182.81	2409.55	-9.08	-3.57	-9.08	9.76	201.44	0.16
2502.88	0.40	180.22	2502.81	-9.74	-3.58	-9.74	10.38	200.20	0.02
2596.14	0.54	183.46	2596.07	-10.50	-3.61	-10.50	11.11	198.97	0.15
2689.40	0.39	157.98	2689.33	-11.23	-3.52	-11.23	11.77	197.39	0.27
2782.66	0.61	161.45	2782.58	-12.00	-3.24	-12.00	12.43	195.11	0.24
2875.92	0.43	149.86	2875.84	-12.78	-2.90	-12.78	13.11	192.80	0.22
2969.18	0.31	199.14	2969.10	-13.32	-2.81	-13.32	13.62	191.90	0.35
3062.44	0.31	112.51	3062.36	-13.66	-2.66	-13.66	13.91	191.00	0.46
3155.70	0.84	93.54	3155.61	-13.80	-1.74	-13.80	13.91	187.18	0.59
3248.96	0.35	44.35	3248.87	-13.64	-0.86	-13.64	13.66	183.60	0.71
3342.22	0.65	87.07	3342.12	-13.41	-0.13	-13.41	13.41	180.57	0.49
3435.48	0.53	74.83	3435.38	-13.27	0.81	-13.27	13.29	176.50	0.18
3528.74	0.97	65.61	3528.63	-12.83	1.95	-12.83	12.97	171.36	0.49
3622.00	0.58	78.48	3621.88	-12.41	3.13	-12.41	12.79	165.85	0.46
3715.26	0.45	55.54	3715.14	-12.11	3.89	-12.11	12.72	162.19	0.26
3808.52	0.54	28.13	3808.39	-11.51	4.40	-11.51	12.32	159.09	0.27
3901.78	0.43	37.70	3901.65	-10.85	4.82	-10.85	11.87	156.05	0.15
3995.04	0.49	61.19	3994.91	-10.38	5.38	-10.38	11.69	152.60	0.21
4088.30	0.15	33.12	4088.17	-10.09	5.80	-10.09	11.63	150.12	0.40
4181.56	0.39	13.61	4181.43	-9.68	5.93	-9.68	11.35	148.49	0.28
4274.82	0.23	352.66	4274.68	-9.18	5.99	-9.18	10.96	146.91	0.20
4368.08	0.58	54.79	4367.94	-8.72	6.35	-8.72	10.79	143.96	0.55
4461.34	0.34	273.53	4461.20	-8.43	6.46	-8.43	10.62	142.56	0.93
4554.60	0.48	20.22	4554.46	-8.05	6.32	-8.05	10.23	141.87	0.71
4647.86	0.63	270.20	4647.72	-7.68	5.94	-7.68	9.71	142.28	0.98
4741.12	0.28	6.16	4740.97	-7.45	5.45	-7.45	9.23	143.82	0.77
4834.38	0.44	348.15	4834.23	-6.87	5.40	-6.87	8.74	141.85	0.21
4927.64	0.60	307.08	4927.49	-6.23	4.93	-6.23	7.95	141.61	0.43
5020.90	0.40	310.83	5020.74	-5.72	4.29	-5.72	7.15	143.09	0.22
5114.16	0.54	327.04	5114.00	-5.14	3.81	-5.14	6.39	143.45	0.20
5207.42	0.55	306.79	5207.26	-4.50	3.21	-4.50	5.53	144.50	0.21
5300.68	0.58	329.81	5300.51	-3.83	2.61	-3.83	4.63	145.66	0.24
5393.94	0.77	340.41	5393.77	-2.83	2.17	-2.83	3.57	142.56	0.24

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5487.20	0.67	347.51	5487.02	-1.71	1.84	-1.71	2.51	132.89	0.14
5580.46	0.55	296.35	5580.27	-0.98	1.33	-0.98	1.65	126.48	0.58
5673.72	0.69	281.51	5673.53	-0.67	0.38	-0.67	0.77	150.58	0.23
5766.98	0.82	338.17	5766.78	0.06	-0.42	0.06	0.42	278.36	0.78
5860.24	0.49	299.92	5860.04	0.88	-1.01	0.88	1.34	311.03	0.57
5953.50	0.93	349.84	5953.29	1.83	-1.49	1.83	2.36	320.78	0.77
6046.76	1.19	300.45	6046.54	3.07	-2.46	3.07	3.93	321.23	0.99
6140.02	0.80	343.23	6139.78	4.18	-3.49	4.18	5.44	320.16	0.87
6233.28	0.60	318.86	6233.04	5.16	-3.99	5.16	6.53	322.29	0.38
6326.54	0.76	337.93	6326.29	6.10	-4.54	6.10	7.61	323.32	0.29
6419.80	0.81	332.49	6419.54	7.26	-5.08	7.26	8.86	325.01	0.10
6513.06	0.84	340.65	6512.79	8.49	-5.61	8.49	10.18	326.53	0.13
6606.32	0.54	309.30	6606.04	9.42	-6.18	9.42	11.26	326.72	0.51
6699.58	0.47	289.00	6699.30	9.82	-6.88	9.82	11.99	324.97	0.20
6792.84	0.30	343.61	6792.56	10.18	-7.32	10.18	12.54	324.30	0.41
6886.10	0.27	305.53	6885.82	10.54	-7.57	10.54	12.98	324.34	0.20
6979.36	0.46	19.96	6979.08	11.02	-7.62	11.02	13.40	325.35	0.50
7072.62	0.43	352.17	7072.33	11.72	-7.54	11.72	13.93	327.24	0.23
7165.88	0.44	324.74	7165.59	12.35	-7.79	12.35	14.60	327.75	0.22
7259.14	0.52	331.36	7258.85	13.01	-8.20	13.01	15.38	327.78	0.11
7352.40	0.63	336.12	7352.10	13.85	-8.61	13.85	16.31	328.14	0.12
7445.66	0.73	333.50	7445.36	14.85	-9.08	14.85	17.40	328.55	0.12
7538.92	0.78	334.73	7538.61	15.95	-9.62	15.95	18.62	328.92	0.06
7632.18	0.94	332.07	7631.86	17.20	-10.24	17.20	20.02	329.22	0.17
7725.44	1.04	333.82	7725.10	18.63	-10.97	18.63	21.62	329.50	0.11
7818.70	0.99	347.16	7818.35	20.17	-11.52	20.17	23.23	330.26	0.26
7911.96	1.14	352.34	7911.59	21.88	-11.83	21.88	24.87	331.61	0.19
8005.22	1.34	351.53	8004.83	23.88	-12.11	23.88	26.78	333.11	0.22
8098.48	1.72	344.61	8098.06	26.32	-12.64	26.32	29.20	334.34	0.45
8191.74	1.90	342.54	8191.27	29.14	-13.48	29.14	32.11	335.18	0.21
8285.00	2.08	348.27	8284.48	32.28	-14.29	32.28	35.30	336.12	0.28



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Butter Cup 36 State Com 3H / API 30-025-42367



VES Survey Date: 2/11/2015