



P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-41899

April 14, 2014

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

Attn: David Cook

Re: **Betelgeuse 19 Fed No. 005H**

Please find enclosed a copy of the survey from 0.00' to 3880.00' 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 14th day of April, A.D., 2014, by Keith Havelka.


Meredith Darden
Notary Public, State of Texas





Company: DEVON ENERGY
Lease/Well: BETELGEUSE 19 FED /No. 005H



Rig Name: HP 300
State/County: NEW MEXICO/EDDY
Latitude: 32.65, Longitude: -103.90
GRID North is 0.23 Degrees East of True North
VS-Azi: 0.00 Degrees

Depth Reference : RKB:26.2 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 4/14/2014 / 15:11

VES Survey International
West, Texas
(432) 563-5444
Surveyor: Jordan Shelleby
Betelgeuse 19 Fed No. 005H / API 30-015-41899

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	****
100.00	0.48	11.31	100.00	0.41	0.08	0.41	0.42	11.31	0.48
200.00	0.13	81.19	200.00	0.84	0.27	0.84	0.89	17.95	0.46
300.00	0.38	112.23	300.00	0.73	0.69	0.73	1.01	43.19	0.28
400.00	0.50	142.90	399.99	0.26	1.26	0.26	1.29	78.31	0.26
500.00	0.24	181.94	499.99	-0.29	1.52	-0.29	1.54	100.96	0.35
600.00	1.12	221.01	599.98	-1.24	0.87	-1.24	1.51	145.06	0.95
700.00	1.20	229.82	699.96	-2.66	-0.58	-2.66	2.72	192.28	0.19
800.00	0.73	236.24	799.95	-3.69	-1.91	-3.69	4.15	207.37	0.48
900.00	0.38	237.84	899.94	-4.22	-2.72	-4.22	5.02	212.83	0.35
1000.00	0.46	242.22	999.94	-4.58	-3.36	-4.58	5.68	216.23	0.08
1100.00	0.50	202.31	1099.94	-5.17	-3.88	-5.17	6.46	216.84	0.33
1200.00	0.31	162.16	1199.94	-5.84	-3.96	-5.84	7.05	214.17	0.33
1300.00	0.65	98.81	1299.93	-6.18	-3.32	-6.18	7.01	208.26	0.58
1400.00	0.64	71.14	1399.93	-6.08	-2.23	-6.08	6.48	200.17	0.31
1500.00	1.08	40.92	1499.92	-5.19	-1.09	-5.19	5.30	191.86	0.62
1600.00	0.90	42.77	1599.90	-3.90	0.06	-3.90	3.90	179.10	0.18
1700.00	0.94	39.44	1699.89	-2.69	1.12	-2.69	2.91	157.44	0.07
1800.00	0.95	63.77	1799.87	-1.69	2.38	-1.69	2.92	125.33	0.40



VES Survey International
West, Texas
(432) 563-5444
Surveyor: Jordan Shelleby
Betelgeuse 19 Fed No. 005H / API 30-015-41899

