

Schlumberger

Reservoir Development

Drilling & Measurements (Anadrill)
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January 10, 2013

Railroad Commission of Texas
Oil and Gas Division
PO Box 12967
Capital Station
Austin, Texas 78711

Attention: Pam Johns

Re:

CLIENT: Energen Resources Corporation
WELL: University 17-18 #2
FIELD: Two Georges (Bone Spring)
RIG: Nabors F05
COUNTY: Ward
API NO: 42-475-36255
JOB NO: 12MLD0606

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Anadrill), a division of Schlumberger Technology Corporation (P-5 No. 754900). Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Hamish Snell FE	University 17-18 #2 Original Hole	11227.00 Ft to 15067.00 Ft	December 10, 2012 to December 16, 2012	ShortPulse

A plat of the bottom hole location is oriented both to the surface location and to the lease lines (or until line in case of pooling), is attached to the survey report.

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Jasem Alharer
Field Service Manager



CC: Energen Resources Corporation
Enclosures: [2]
County of Ward
State of Texas

SCHLUMBERGER
Survey Report

20-Dec-2012

Client.....: Energen Resources Corporation
Field.....: Two Georges (Bone Spring)

Well.....: University 17-18 #2
API number.....: 42-475-36255
Engineer.....: H.Snell

Spud date.....: 23-Oct-12
Last survey date.....: 16-Dec-12
Total accepted surveys...: 53
MD of first survey.....: 11227.00 ft
MD of last survey.....: 15067.00 ft

County.....: Ward County
State.....: Texas
Rig.....: Nabors F05

Latitude.....: 31° 31' 50.761" N
Longitude.....: 103° 14' 1.588" W

----- Survey calculation methods-----
Method for positions...: Minimum curvature
Method for DLS.....: Lubinski

----- Depth reference -----
Permanent datum.....: MSL
Depth reference.....: Driller's Depth
GL above permanent.....: 2660.00
KB above permanent.....: 2688.00
DF above permanent.....: 2688.00

----- Vertical section origin-----
Latitude (+N/S-).....: 0.00 ft
Departure (+E/W-).....: 0.00 ft

----- Grid Coordinates -----
NAD27 Texas State Plane, Central Zone, US Feet
X.....: 1096418.80 ft
Y.....: 689736.80 ft

Azimuth from Vsect Origin to target: 73.74 degrees

-----MWD Survey Reference Criteria-----

-----Run1----- Calculation Date: 11-Dec-2012
Location G.....: 998.63244 mgn Tolerance G...: 2.50 mgn
Location B.....: 48083.92 nT Tolerance B...: 300.00 nT
Magnetic Dip: 59.51 degrees Tolerance Dip: 0.45 degrees

-----Run2----- Calculation Date: 12-Dec-2012
Location G.....: 998.63244 mgn Tolerance G...: 2.50 mgn
Location B.....: 48083.92 nT Tolerance B...: 300.00 nT
Magnetic Dip: 59.51 degrees Tolerance Dip: 0.45 degrees

BGGM Model: 2012

-----Run1-----
Magnetic dec (+E/W-).....: 7.303 degrees
Grid Conv (+E/W-).....: -1.497 degrees
Total Azim Corr (+E/W-)...: 8.8 degrees

-----Run2-----
Magnetic dec (+E/W-).....: 7.303 degrees
Grid Conv (+E/W-).....: -1.497 degrees
Total Azim Corr (+E/W-)...: 8.8 degrees

-----Survey Correction Index Description-----

0 = Uncorrected 1 = Sag Corrected
2 = DMAG Corrected 3 = Sag + DMAG Corrected

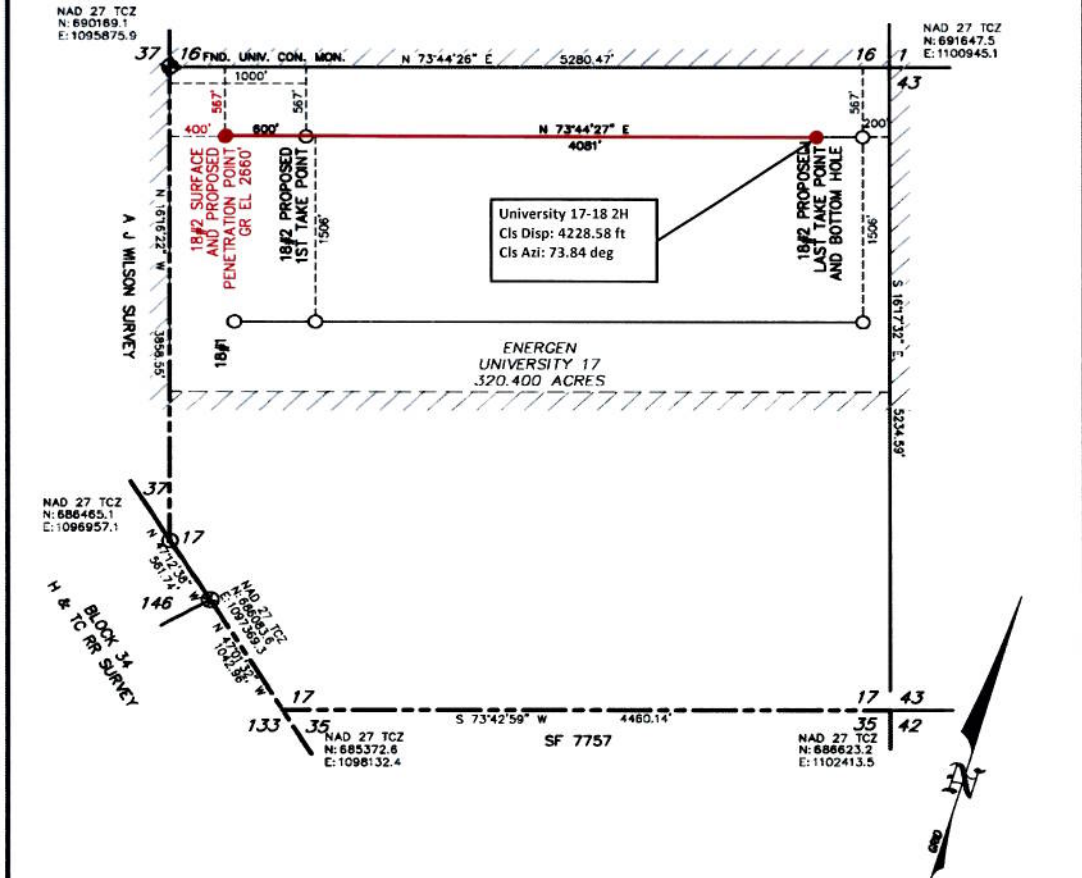
Survey List													
Seq	MD (ft)	Incl (deg)	Azim (deg)	Course (ft)	TVD (ft)	V Sec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azi (deg)	DLS (deg/100ft)	Tool	Correction
1	0.00	0.00	0.00	-999.25	0.00	0.00	0.00	0.00	0	90.00	0.00	TIP	0
2	100.00	0.64	69.21	100.00	100.00	0.56	0.20	0.52	0.56	69.21	0.64	GyroTool	0
3	200.00	0.15	97.33	100.00	200.00	1.23	0.38	1.17	1.23	72.08	0.51	GyroTool	0
4	300.00	0.11	136.24	100.00	300.00	1.40	0.29	1.37	1.4	77.90	0.09	GyroTool	0
5	400.00	0.07	175.14	100.00	399.99	1.43	0.16	1.44	1.45	83.53	0.07	GyroTool	0
6	500.00	0.12	198.43	100.00	499.99	1.36	0.00	1.41	1.41	89.87	0.06	GyroTool	0
7	600.00	0.17	221.72	100.00	599.99	1.17	-0.21	1.28	1.3	99.16	0.08	GyroTool	0
8	700.00	0.17	279.58	100.00	699.99	0.91	-0.29	1.04	1.08	105.77	0.16	GyroTool	0
9	800.00	0.18	337.44	100.00	799.99	0.76	-0.12	0.83	0.84	98.43	0.17	GyroTool	0
10	900.00	0.17	187.33	100.00	899.99	0.69	-0.13	0.75	0.76	99.45	0.34	GyroTool	0
11	1000.00	0.16	37.22	100.00	999.99	0.74	-0.16	0.82	0.83	101.15	0.32	GyroTool	0
12	1100.00	0.22	357.93	100.00	1099.99	0.90	0.14	0.89	0.91	80.98	0.14	GyroTool	0

13	1200.00	0.29	318.64	100.00	1199.99	0.84	0.52	0.72	0.89	53.98	0.18	GyroTool	0
14	1300.00	0.31	17.45	100.00	1299.99	0.88	0.97	0.63	1.16	33.13	0.30	GyroTool	0
15	1400.00	0.32	76.26	100.00	1399.99	1.31	1.30	0.99	1.63	37.27	0.31	GyroTool	0
16	1500.00	0.33	69.49	100.00	1499.99	1.88	1.46	1.53	2.12	46.23	0.04	GyroTool	0
17	1600.00	0.34	62.71	100.00	1599.99	2.45	1.70	2.06	2.67	50.48	0.04	GyroTool	0
18	1700.00	0.69	63.69	100.00	1699.98	3.34	2.10	2.86	3.55	53.71	0.35	GyroTool	0
19	1800.00	1.04	64.67	100.00	1799.97	4.83	2.76	4.22	5.05	56.86	0.35	GyroTool	0
20	1900.00	1.44	55.68	100.00	1899.95	6.92	3.86	6.08	7.2	57.63	0.44	GyroTool	0
21	2000.00	1.83	46.70	100.00	1999.91	9.54	5.66	8.28	10.03	55.66	0.47	GyroTool	0
22	2100.00	1.96	53.76	100.00	2099.85	12.56	7.76	10.82	13.32	54.34	0.27	GyroTool	0
23	2200.00	2.09	60.82	100.00	2199.79	15.95	9.66	13.79	16.84	54.99	0.28	GyroTool	0
24	2300.00	2.38	54.12	100.00	2299.71	19.68	11.77	17.07	20.73	55.41	0.39	GyroTool	0
25	2400.00	2.66	47.42	100.00	2399.62	23.72	14.56	20.46	25.11	54.57	0.41	GyroTool	0
26	2500.00	2.87	38.08	100.00	2499.50	27.83	18.10	23.71	29.83	52.65	0.50	GyroTool	0
27	2600.00	3.07	28.75	100.00	2599.37	31.76	22.42	26.55	34.74	49.82	0.52	GyroTool	0
28	2700.00	2.57	11.78	100.00	2699.25	34.71	26.96	28.29	39.08	46.38	0.97	GyroTool	0
29	2800.00	2.08	350.81	100.00	2799.17	35.98	30.95	28.46	42.04	42.60	0.97	GyroTool	0
30	2900.00	1.21	334.04	100.00	2899.12	36.03	33.69	27.71	43.62	39.44	0.99	GyroTool	0
31	3000.00	0.35	237.27	100.00	2999.12	35.56	34.47	26.99	43.78	38.06	1.30	GyroTool	0
32	3100.00	0.92	315.46	100.00	3099.11	34.89	34.88	26.17	43.6	36.88	0.91	GyroTool	0
33	3200.00	1.50	310.66	100.00	3199.09	33.79	36.30	24.61	43.86	34.14	0.59	GyroTool	0
34	3300.00	1.67	306.78	100.00	3299.05	32.20	38.03	22.45	44.16	30.56	0.20	GyroTool	0
35	3400.00	1.84	305.90	100.00	3399.00	30.34	39.84	19.98	44.57	26.64	0.17	GyroTool	0
36	3500.00	1.50	305.78	100.00	3498.96	28.55	41.55	17.62	45.13	22.98	0.34	GyroTool	0
37	3600.00	1.17	5.65	100.00	3598.94	28.13	43.33	16.66	46.42	21.03	1.36	GyroTool	0
38	3700.00	1.02	72.00	100.00	3698.92	29.40	44.62	17.61	47.97	21.53	1.20	GyroTool	0
39	3800.00	0.88	102.36	100.00	3798.91	30.96	44.73	19.20	48.68	23.23	0.52	GyroTool	0
40	3900.00	1.36	110.60	100.00	3898.89	32.58	44.15	21.06	48.92	25.51	0.51	GyroTool	0
41	4000.00	1.84	112.84	100.00	3998.85	34.78	43.11	23.66	49.17	28.76	0.48	GyroTool	0
42	4100.00	1.18	132.75	100.00	4098.82	36.55	41.79	25.89	49.16	31.78	0.83	GyroTool	0
43	4200.00	0.51	186.65	100.00	4198.81	36.91	40.65	26.60	48.57	33.20	0.97	GyroTool	0
44	4300.00	0.82	276.46	100.00	4298.80	36.08	40.28	25.83	47.86	32.67	0.96	GyroTool	0
45	4400.00	0.93	326.27	100.00	4398.79	35.17	41.04	24.67	47.88	31.01	0.74	GyroTool	0
46	4500.00	0.99	358.38	100.00	4498.78	35.15	42.58	24.20	48.97	29.61	0.53	GyroTool	0
47	4600.00	0.84	60.50	100.00	4598.77	36.08	43.80	24.81	50.34	29.53	0.95	GyroTool	0
48	4700.00	1.25	13.55	100.00	4698.75	37.34	45.22	25.70	52.02	29.61	0.91	GyroTool	0
49	4800.00	1.66	316.61	100.00	4798.73	37.22	47.34	24.96	53.52	27.81	1.43	GyroTool	0
50	4900.00	1.27	282.24	100.00	4898.69	35.58	48.62	22.89	53.74	25.20	0.94	GyroTool	0
51	5000.00	0.88	247.87	100.00	4998.68	33.85	48.57	21.09	52.95	23.47	0.74	GyroTool	0
52	5100.00	0.88	255.02	100.00	5098.67	32.32	48.08	19.64	51.94	22.22	0.11	GyroTool	0
53	5200.00	0.88	262.17	100.00	5198.65	30.79	47.78	18.14	51.11	20.79	0.11	GyroTool	0
54	5300.00	0.66	263.96	100.00	5298.65	29.46	47.61	16.80	50.49	19.44	0.22	GyroTool	0
55	5400.00	0.41	265.75	100.00	5398.64	28.54	47.53	15.87	50.11	18.47	0.25	GyroTool	0
56	5500.00	0.40	267.65	100.00	5498.64	27.86	47.49	15.17	49.85	17.71	0.02	GyroTool	0
57	5600.00	0.39	269.55	100.00	5598.64	27.19	47.47	14.48	49.63	16.96	0.02	GyroTool	0
58	5700.00	0.52	242.17	100.00	5698.63	26.42	47.25	13.74	49.21	16.21	0.25	GyroTool	0
59	5800.00	0.65	214.78	100.00	5798.63	25.53	46.58	13.01	48.36	15.61	0.30	GyroTool	0
60	5900.00	0.47	213.01	100.00	5898.62	24.78	45.77	12.46	47.43	15.23	0.18	GyroTool	0
61	6000.00	0.29	211.24	100.00	5998.62	24.28	45.21	12.11	46.8	15.00	0.18	GyroTool	0
62	6100.00	0.48	188.74	100.00	6098.62	23.92	44.58	11.91	46.14	14.96	0.24	GyroTool	0
63	6200.00	0.67	166.24	100.00	6198.61	23.72	43.59	11.99	45.21	15.38	0.29	GyroTool	0
64	6300.00	0.54	137.14	100.00	6298.61	23.90	42.68	12.45	44.46	16.26	0.33	GyroTool	0
65	6400.00	0.41	108.05	100.00	6398.60	24.41	42.22	13.11	44.21	17.25	0.27	GyroTool	0
66	6500.00	0.25	162.00	100.00	6498.60	24.71	41.91	13.52	44.03	17.88	0.33	GyroTool	0
67	6600.00	0.09	215.95	100.00	6598.60	24.66	41.64	13.54	43.78	18.01	0.21	GyroTool	0
68	6700.00	0.16	155.97	100.00	6698.60	24.61	41.44	13.55	43.6	18.11	0.14	GyroTool	0
69	6800.00	0.23	95.98	100.00	6798.60	24.82	41.30	13.81	43.54	18.49	0.20	GyroTool	0
70	6900.00	0.39	134.08	100.00	6898.60	25.17	41.04	14.25	43.44	19.15	0.25	GyroTool	0
71	7000.00	0.55	172.17	100.00	6998.60	25.27	40.33	14.56	42.87	19.85	0.34	GyroTool	0
72	7100.00	0.34	197.04	100.00	7098.59	25.04	39.57	14.54	42.15	20.18	0.28	GyroTool	0
73	7200.00	0.14	221.91	100.00	7198.59	24.77	39.19	14.37	41.74	20.14	0.22	GyroTool	0
74	7300.00	0.30	200.24	100.00	7298.59	24.51	38.86	14.20	41.37	20.07	0.18	GyroTool	0
75	7400.00	0.47	178.56	100.00	7398.59	24.25	38.20	14.12	40.73	20.28	0.22	GyroTool	0
76	7500.00	0.68	198.01	100.00	7498.59	23.81	37.23	13.95	39.75	20.54	0.28	GyroTool	0
77	7600.00	0.88	217.46	100.00	7598.58	22.86	36.05	13.29	38.43	20.24	0.33	GyroTool	0
78	7700.00	0.66	230.94	100.00	7698.57	21.71	35.08	12.38	37.2	19.44	0.28	GyroTool	0
79	7800.00	0.44	244.41	100.00	7798.56	20.80	34.55	11.59	36.44	18.54	0.25	GyroTool	0
80	7900.00	0.47	198.79	100.00	7898.56	20.18	34.00	11.11	35.77	18.09	0.35	GyroTool	0
81	8000.00	0.49	153.16	100.00	7998.56	20.03	33.23	11.17	35.05	18.58	0.37	GyroTool	0
82	8100.00	0.42	132.12	100.00	8098.55	20.30	32.60	11.63	34.61	19.64	0.18	GyroTool	0
83	8200.00	0.35	111.08	100.00	8198.55	20.73	32.24	12.19	34.47	20.71	0.16	GyroTool	0
84	8300.00	0.30	67.62	100.00	8298.55	21.23	32.23	12.72	34.65	21.53	0.25	GyroTool	0
85	8400.00	0.25	24.16	100.00	8398.55	21.64	32.53	13.05	35.05	21.86	0.21	GyroTool	0
86	8500.00	0.59	59.59	100.00	8498.55	22.28	32.99	13.58	35.68	22.38	0.41	GyroTool	0
87	8600.00	0.93	95.03	100.00	8598.54	23.53	33.18	14.84	36.35	24.09	0.56	GyroTool	0
88	8700.00	0.71	117.23	100.00	8698.53	24.74	32.83	16.19	36.6	26.26	0.38	GyroTool	0
89	8800.00	0.50	139.42	100.00	8798.52	25.37	32.21	17.03	36.44	27.86	0.31	GyroTool	0
90	8900.00	0.82	153.36	100.00	8898.52	25.68	31.24	17.63	35.87	29.44	0.36	GyroTool	0
91	9000.00	1.14	167.29	100.00	8998.50	25.74	29.63	18.17	34.76	31.52	0.40	GyroTool	0
92	9100.00	1.23	196.01	100.00	9098.48	25.11	27.63	18.10	33.03	33.22	0.59	GyroTool	0
93	9200.00	1.33	224.72	100.00	9198.46	23.52	25.77	16.98	30.87	33.38	0.64	GyroTool	0
94	9300.00	1.00	180.45	100.00	9298.44	22.25	24.08	16.16	29	33.87	0.93	GyroTool	0
95	9400.00	0.67	94.18	100.00	9398.43	22.55	23.16	16.74	28.57	35.85	1.17	GyroTool	0
96	9500.00	0.95	139.88	100.00	9498.42	23.44	22.48	17.85	28.71	38.45	0.68	GyroTool	0
97	9600.00	1.23	185.57	100.00	9598.40	23.37	20.78	18.28	27.68	41.34	0.88	GyroTool	0

98	9700.00	1.27	183.01	100.00	9698.38	22.61	18.61	18.12	25.97	44.24	0.07	GyroTool	0
99	9800.00	1.32	180.45	100.00	9798.36	21.91	16.35	18.05	24.36	47.84	0.08	GyroTool	0
100	9900.00	1.10	209.41	100.00	9898.33	20.89	14.36	17.57	22.69	50.75	0.64	GyroTool	0
101	10000.00	0.88	238.36	100.00	9998.32	19.46	13.12	16.45	21.04	51.42	0.54	GyroTool	0
102	10100.00	1.22	269.82	100.00	10098.30	17.70	12.71	14.73	19.46	49.20	0.66	GyroTool	0
103	10200.00	1.56	301.28	100.00	10198.28	15.76	13.42	12.50	18.34	42.98	0.82	GyroTool	0
104	10300.00	1.36	302.73	100.00	10298.24	14.06	14.77	10.34	18.03	35.00	0.20	GyroTool	0
105	10400.00	1.15	304.19	100.00	10398.22	12.64	15.97	8.51	18.1	28.06	0.21	GyroTool	0
106	10440.00	0.87	297.41	40.00	10438.21	12.17	16.34	7.91	18.15	25.84	0.76	GyroTool	0
107	10562.00	0.50	262.20	122.00	10560.20	10.97	16.69	6.56	17.93	21.46	0.45	GyroTool	0
108	10594.00	0.20	291.44	32.00	10592.20	10.79	15.69	6.37	17.87	20.89	1.06	GyroTool	0
109	10626.00	3.10	73.20	32.00	10624.19	11.61	16.96	7.15	18.41	22.85	10.19	GyroTool	0
110	10657.00	7.30	74.20	31.00	10655.05	14.42	17.74	9.85	20.29	29.03	13.55	GyroTool	0
111	10689.00	11.20	75.30	32.00	10686.63	19.56	19.09	14.81	24.16	37.81	12.20	GyroTool	0
112	10721.00	14.50	73.80	32.00	10717.83	26.68	20.99	21.67	30.17	45.90	10.36	GyroTool	0
113	10752.00	17.90	73.00	31.00	10747.59	35.32	23.47	29.95	38.05	51.92	10.99	GyroTool	0
114	10784.00	21.10	71.30	32.00	10777.75	46.00	26.75	40.11	48.22	56.30	10.16	GyroTool	0
115	10815.00	24.40	69.30	31.00	10806.34	57.96	30.81	51.39	59.92	59.06	10.93	GyroTool	0
116	10847.00	29.10	68.40	32.00	10834.90	72.31	36.01	64.82	74.15	60.94	14.74	GyroTool	0
117	10878.00	33.50	68.50	31.00	10861.39	88.34	41.92	79.79	90.14	62.28	14.19	GyroTool	0
118	10910.00	36.60	71.00	32.00	10887.58	106.67	48.27	97.03	108.38	63.55	10.67	GyroTool	0
119	10941.00	39.00	73.50	31.00	10912.08	125.66	54.05	115.13	127.18	64.85	9.18	GyroTool	0
120	10973.00	41.30	76.70	32.00	10936.54	146.28	59.34	135.06	147.52	66.28	9.65	GyroTool	0
121	11005.00	44.90	77.60	32.00	10959.90	168.10	64.20	156.38	169.04	67.68	11.41	GyroTool	0
122	11036.00	48.10	77.50	31.00	10981.23	190.53	69.04	178.33	191.23	68.84	10.33	GyroTool	0
123	11068.00	50.30	78.30	32.00	11002.14	214.69	74.12	202.02	215.19	69.85	7.13	GyroTool	0
124	11100.00	52.10	77.40	32.00	11022.19	239.56	79.37	226.40	239.91	70.68	6.04	GyroTool	0
125	11131.00	55.60	76.00	31.00	11040.48	264.56	85.13	250.75	264.81	71.25	11.86	GyroTool	0
126	11227.00	67.99	74.40	96.00	11085.76	348.96	106.76	332.36	349.09	72.19	12.99	ShortPulse	0
127	11258.00	69.81	75.18	31.00	11096.92	377.88	114.35	360.27	377.98	72.39	6.32	ShortPulse	0
128	11289.00	70.33	75.88	31.00	11107.49	407.01	121.63	388.49	407.09	72.62	2.70	ShortPulse	0
129	11321.00	71.22	77.15	32.00	11118.03	437.19	128.68	417.87	437.24	72.88	4.67	ShortPulse	0
130	11353.00	72.38	78.14	32.00	11128.02	467.51	135.18	447.57	467.54	73.19	4.66	ShortPulse	0
131	11385.00	73.47	78.50	32.00	11137.42	498.01	141.37	477.52	498.01	73.51	3.58	ShortPulse	0
132	11416.00	75.00	78.46	31.00	11145.84	527.74	147.33	506.75	527.74	73.79	4.93	ShortPulse	0
133	11448.00	76.24	78.57	32.00	11153.79	558.62	153.50	537.13	558.63	74.05	3.91	ShortPulse	0
134	11480.00	77.59	78.26	32.00	11161.03	589.69	159.76	567.66	589.72	74.28	4.30	ShortPulse	0
135	11511.00	79.31	78.25	31.00	11167.24	619.97	165.94	597.40	620.02	74.48	5.56	ShortPulse	0
136	11543.00	80.67	77.90	32.00	11172.80	651.39	172.45	628.23	651.47	74.65	4.39	ShortPulse	0
137	11574.00	81.75	77.09	31.00	11177.54	681.96	179.09	658.14	682.07	74.78	4.32	ShortPulse	0
138	11606.00	82.62	76.44	32.00	11181.89	713.62	186.35	689.00	713.75	74.87	3.40	ShortPulse	0
139	11637.00	83.76	75.76	31.00	11185.56	744.37	193.74	718.88	744.53	74.92	4.29	ShortPulse	0
140	11669.00	84.56	75.31	32.00	11188.82	776.19	201.70	749.70	776.36	74.94	2.85	ShortPulse	0
141	11701.00	85.42	74.47	32.00	11191.62	808.06	210.00	780.48	808.24	74.94	3.73	ShortPulse	0
142	11732.00	87.28	74.01	31.00	11193.59	838.99	218.41	810.25	839.17	74.91	6.19	ShortPulse	0
143	11763.00	89.00	73.44	31.00	11194.59	869.98	227.09	839.99	870.15	74.87	5.85	ShortPulse	0
144	11858.00	91.96	74.35	95.00	11193.79	964.96	253.44	931.25	965.12	74.78	3.26	ShortPulse	0
145	11952.00	91.00	75.47	94.00	11191.37	1058.91	277.90	1021.97	1059.08	74.79	1.57	ShortPulse	0
146	12046.00	90.89	74.43	94.00	11189.82	1152.87	302.31	1112.74	1153.07	74.80	1.11	ShortPulse	0
147	12140.00	91.27	73.72	94.00	11188.04	1246.85	328.10	1203.11	1247.05	74.75	0.85	ShortPulse	0
148	12235.00	91.27	72.34	95.00	11185.93	1341.82	355.82	1293.95	1341.98	74.62	1.45	ShortPulse	0
149	12329.00	91.27	71.74	94.00	11183.84	1435.76	384.79	1383.35	1435.87	74.46	0.64	ShortPulse	0
150	12425.00	92.06	73.65	96.00	11181.05	1531.69	413.33	1474.96	1531.78	74.35	2.16	ShortPulse	0
151	12518.00	92.65	73.08	93.00	11177.22	1624.61	439.93	1563.99	1624.69	74.29	0.88	ShortPulse	0
152	12613.00	92.34	73.45	95.00	11173.09	1719.52	467.26	1654.88	1719.58	74.23	0.51	ShortPulse	0
153	12707.00	91.89	74.32	94.00	11169.62	1813.45	493.33	1745.13	1813.52	74.21	1.04	ShortPulse	0
154	12801.00	91.65	72.97	94.00	11166.71	1907.41	519.79	1835.27	1907.46	74.19	1.46	ShortPulse	0
155	12895.00	92.41	71.64	94.00	11163.38	2001.32	548.35	1924.77	2001.35	74.10	1.62	ShortPulse	0
156	12989.00	92.06	71.03	94.00	11159.72	2095.16	578.42	2013.75	2095.18	73.97	0.75	ShortPulse	0
157	13083.00	92.06	71.43	94.00	11156.33	2189.01	608.64	2102.70	2189.01	73.86	0.43	ShortPulse	0
158	13178.00	92.30	72.16	95.00	11152.71	2283.88	638.30	2192.88	2283.88	73.77	0.81	ShortPulse	0
159	13272.00	91.69	73.22	94.00	11149.44	2377.81	666.25	2282.56	2377.81	73.73	1.30	ShortPulse	0
160	13367.00	91.69	73.59	95.00	11146.64	2472.77	693.38	2373.56	2472.77	73.72	0.39	ShortPulse	0
161	13460.00	92.55	73.84	93.00	11143.21	2565.70	719.44	2462.77	2565.7	73.72	0.96	ShortPulse	0
162	13555.00	92.62	75.17	95.00	11138.93	2660.60	744.80	2554.22	2660.6	73.74	1.40	ShortPulse	0
163	13650.00	92.68	74.90	95.00	11134.54	2755.47	769.30	2645.90	2755.47	73.79	0.29	ShortPulse	0
164	13744.00	92.62	75.45	94.00	11130.20	2849.34	793.33	2736.67	2849.34	73.83	0.58	ShortPulse	0
165	13838.00	91.72	75.72	94.00	11126.64	2943.22	816.71	2827.65	2943.23	73.89	1.00	ShortPulse	0
166	13933.00	91.62	76.23	95.00	11123.88	3038.11	839.72	2919.78	3038.13	73.95	0.54	ShortPulse	0
167	14027.00	91.00	75.74	94.00	11121.73	3132.01	862.48	3010.96	3132.05	74.02	0.84	ShortPulse	0
168	14122.00	89.69	72.97	95.00	11121.16	3226.99	888.09	3102.42	3227.03	74.03	3.23	ShortPulse	0
169	14217.00	91.13	72.94	95.00	11120.48	3321.98	915.93	3193.25	3322.01	74.00	1.52	ShortPulse	0
170	14311.00	90.62	71.84	94.00	11119.04	3415.94	944.36	3282.83	3415.96	73.95	1.29	ShortPulse	0
171	14406.00	91.17	71.43	95.00	11117.56	3510.86	974.29	3372.98	3510.88	73.89	0.72	ShortPulse	0
172	14499.00	91.51	69.42	93.00	11115.38	3603.68	1005.44	3460.58	3603.68	73.80	2.20	ShortPulse	0
173	14594.00	90.58	72.35	95.00	11113.64	3698.53	1036.54	3550.32	3698.53	73.72	3.24	ShortPulse	0
174	14688.00	92.58	75.03	94.00	11111.04	3792.48	1062.92	3640.49	3792.48	73.72	3.55	ShortPulse	0
175	14782.00	92.00	73.03	94.00	11107.29	3886.40	1088.75	3730.78	3886.4	73.73	2.22	ShortPulse	0
176	14877.00	92.34	75.36	95.00	11103.70	3981.33	1114.60	3822.12	3981.33	73.74	2.48	ShortPulse	0
177	14972.00	93.86	75.48	95.00	11098.56	4076.14	1138.48	3913.93	4076.14	73.78	1.60	ShortPulse	0
178	15067.00	94.96	75.42	95.00	11091.26	4170.82	1162.27	4005.61	4170.82	73.82	1.16	ShortPulse	0
179	15125.00	94.96	75.42	58.00	11086.25	4228.58	1176.82	4061.53	4228.58	73.84	0.01	Proj	0

PERMIT PLAT

SECTION 17, BLOCK 18, UNIVERSITY LAND SURVEY



NAD 83, TEXAS CENTRAL ZONE		NAD 27, TEXAS CENTRAL ZONE	
S/L: N=105.32312.2', E=139.2884.4'	LAT=31.5308999 N, LONG=103.2342175 W	S/L: N=689736.8', E=1096418.8'	LAT=31.5307670 N, LONG=103.2337744 W
15T: N=105.32480.2', E=139.3460.4'	LAT=31.5314029 N, LONG=103.2323834 W	15T: N=689904.8', E=1096994.8'	LAT=31.5312700 N, LONG=103.2319404 W
B/H: N=105.3622.7', E=139.7377.9'	LAT=31.5348228 N, LONG=103.2199091 W	B/H: N=691047.3', E=1100912.2'	LAT=31.5346899 N, LONG=103.2194666 W

APPROXIMATELY 6.3 MILES W OF PYOTE, TEXAS

NOTES:
 1. COORDINATES AND BEARINGS ARE BASED ON LAURENT CONICAL PROJECTION OF THE STATE PLANE COORDINATE SYSTEM NAD 83, CORRS 98, TEXAS CENTRAL ZONE WITH A CONVERGENCE ANGLE OF -01.46897482" AND DISTANCES ARE OF GRID VALUE WITH A CENTRAL COMBINED SCALE FACTOR OF 0.99980548.
 2. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT AND REVIEW OF THE ABSTRACT OF TITLE. THERE MAY BE EASEMENTS AND/OR COVENANTS AFFECTING THIS PROPERTY NOT SHOWN HEREON. LOCATION OF IMPROVEMENTS AND/OR EASEMENTS WERE BEYOND COMMISSIONED SCOPE OF THIS PROJECT AND HAVE BEEN SPECIFICALLY OMITTED. VESTING DOCUMENTS NOT FURNISHED FOR THIS SURVEY.
 3. SEE DOCUMENTS AND ELECTRONIC DATA FILED IN THE OFFICE OF WPG INC FOR COMPLETE RECONSTRUCTION OF THESE SECTIONS OR BLOCKS.

I, THE UNDERSIGNED, DO HEREBY CERTIFY THAT THE SURVEY INFORMATION FOUND ON THIS PLAT WAS DERIVED FROM ACTUAL FIELD NOTES OF ON-THE-GROUND SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO WARRANTY IS MADE OR INTENDED FOR THE LOCATION OF ANY OR ALL EASEMENTS THAT MAY EXIST WITHIN THE BOUNDS OF THIS SURVEY. THE INFORMATION PRESENTED HEREON IS FOR THE PRIVATE USE OF THE PARTY NAMED IN THE "REFERENCE PORTION" OF THE TITLE BLOCK AND DOES NOT CONSTITUTE A COMPLETE BOUNDARY SURVEY AS DEFINED BY THE "PROFESSIONAL LAND SURVEYING PRACTICES ACT."



- ☼ GAS WELL
- ⊕ WATER INJECTION WELL
- OIL WELL
- LOCATED WELL
- DRY HOLE
- ⊙ WATER WELL
- ⊘ SHUT IN WELL

W.D. Watson, Jr. TEXAS R.P.L.S. No. 1989
 FILE: T:\WARD\BLOCK 17.dwg
 DATE 9/26/12



Watson Professional Group Inc
 CONSULTING ENGINEERS, LAND SURVEYORS & PLANNERS
 P.O. DRAWER 1186
 MIDLAND, TEXAS 79702
 (432) 520-9200
 FAX (432) 520-9212
 wdwatson@wpg-tx.com

PERMIT PLAT
ENERGEN RESOURCES UNIVERSITY 17-18/2
 S/L AND PROPOSED P/P: 400' FSNL & 567' FNWL
 PROPOSED 1ST T/P: 1000' FSNL & 567' FNWL
 PROPOSED LAST T/P AND B/H: 200' FSNL & 567' FNWL
 SECTION 17, BLOCK 18, UNIVERSITY LAND SURVEY
 WARD COUNTY, TEXAS
 DATE: SEPT. 26, 2012 DATE SURVEYED: 9/24/12
 JOB NO.: 12-1431-00 FIELD BOOK: 657/18 DRAFT TA REV. 0