



A GYRO TECHNOLOGIES INC. COMPANY

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

August 1, 2012

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

HOBBS OCD

NOV 06 2012

RECEIVED

Attn: Mark Cooper

Re: **Playa 2 State No. 002H**

SUR: M-2-19s-34e, 330/S & 760/W
BHL: D-2-19s-34e, 390/N & 731/W
API # 30-025-40549

Please find enclosed a copy of the survey from 0.00' to 10,127.00' ran on the above referenced well.

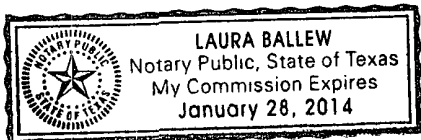
If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 2nd day of August, A.D., 2012, by Keith Havelka.



Laura Ballew
Notary Public, State of Texas

NOV 07 2012



Company: Devon Energy Production Co., LP
Lease/Well: Playa 2 State / No. 002H
Location: S2 T19s R34e
Rig Name: McVay 8
State/County: New Mexico / Lea
Latitude: 32.68
GRID North is 0.43 Degrees East of True North
VS-Azi: 359.69 Degrees



HOBBS OCD

RKB : 18'

NOV 06 2012

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ... 2 state #002h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 8/1/2012 / 15:42

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Dustin Wedel

Playa 2 State No. 002H / API 30-025-40549

RECEIVED

SUR: M-2-19s-34e, 330/S & 760/W
BHL: D-2-19s-34e, 390/N & 731/W
API # 30-025-40549

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	0.30	256.30	100.00	-0.06	-0.25	-0.06	0.26	256.30	0.30
200.00	0.50	297.92	200.00	0.08	-0.88	0.09	0.89	275.20	0.34
300.00	0.30	263.33	299.99	0.25	-1.53	0.26	1.55	279.40	0.30
400.00	0.19	248.24	399.99	0.16	-1.94	0.17	1.95	274.72	0.13
500.00	0.48	248.26	499.99	-0.06	-2.49	-0.04	2.49	268.69	0.29
600.00	0.37	264.17	599.99	-0.24	-3.20	-0.23	3.21	265.63	0.16
700.00	0.30	272.04	699.99	-0.27	-3.78	-0.25	3.79	265.95	0.08
800.00	0.30	298.60	799.99	-0.13	-4.27	-0.11	4.27	268.19	0.14
900.00	0.17	343.58	899.99	0.13	-4.54	0.15	4.54	271.63	0.21
1000.00	0.16	72.87	999.99	0.31	-4.45	0.34	4.46	274.00	0.23
1100.00	0.15	109.28	1099.99	0.31	-4.19	0.33	4.21	274.20	0.10
1200.00	0.12	181.00	1199.98	0.16	-4.07	0.18	4.07	272.26	0.16
1300.00	0.29	158.54	1299.98	-0.18	-3.98	-0.16	3.98	267.43	0.19
1400.00	0.55	155.16	1399.98	-0.85	-3.69	-0.83	3.78	257.00	0.26
1500.00	0.42	149.35	1499.98	-1.60	-3.30	-1.59	3.67	244.05	0.14
1600.00	0.55	141.18	1599.97	-2.30	-2.80	-2.28	3.63	230.67	0.15
1700.00	0.60	135.38	1699.97	-3.05	-2.13	-3.04	3.72	214.96	0.08
1800.00	0.61	135.47	1799.96	-3.80	-1.39	-3.80	4.05	200.03	0.01

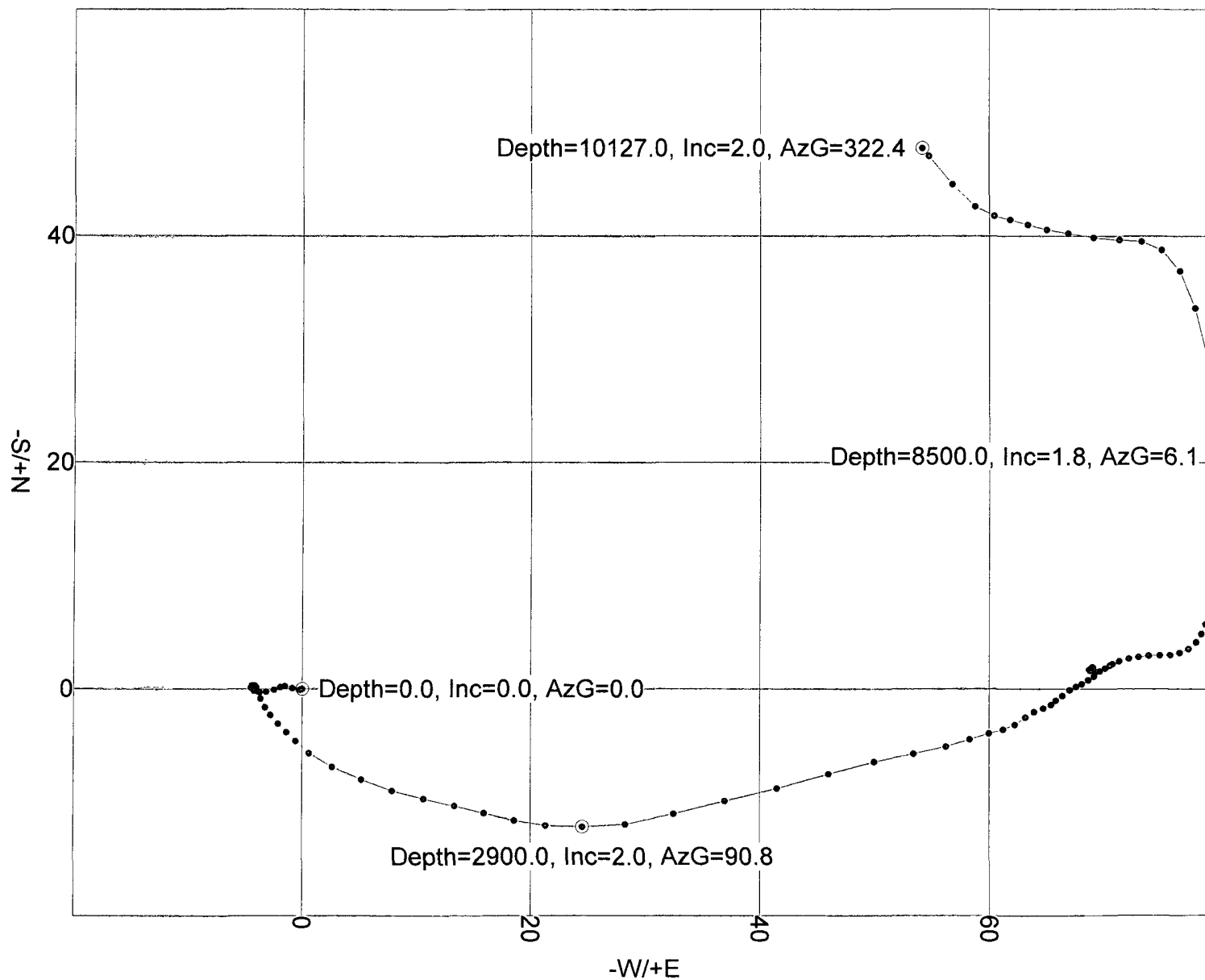
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.69	132.23	1899.96	-4.59	-0.57	-4.59	4.63	187.04	0.08
2000.00	1.13	131.55	1999.94	-5.65	0.61	-5.65	5.68	173.80	0.44
2100.00	1.62	113.62	2099.92	-6.86	2.64	-6.88	7.35	158.95	0.65
2200.00	1.67	112.21	2199.87	-7.98	5.28	-8.01	9.57	146.49	0.07
2300.00	1.61	108.20	2299.83	-8.97	7.97	-9.01	12.00	138.39	0.13
2400.00	1.67	100.44	2399.79	-9.67	10.73	-9.73	14.44	132.03	0.23
2500.00	1.49	106.79	2499.76	-10.31	13.40	-10.38	16.91	127.57	0.25
2600.00	1.56	101.92	2599.72	-10.97	15.98	-11.05	19.38	124.46	0.15
2700.00	1.53	105.39	2699.68	-11.60	18.60	-11.70	21.92	121.96	0.10
2800.00	1.63	93.30	2799.65	-12.04	21.31	-12.15	24.48	119.46	0.35
2900.00	2.04	90.83	2899.59	-12.15	24.51	-12.28	27.36	116.36	0.41
3000.00	2.30	82.92	2999.52	-11.93	28.28	-12.08	30.69	112.87	0.40
3100.00	2.67	73.46	3099.43	-11.01	32.50	-11.19	34.32	108.72	0.55
3200.00	2.60	77.76	3199.32	-9.87	36.95	-10.07	38.25	104.96	0.21
3300.00	2.77	74.77	3299.21	-8.76	41.49	-8.98	42.41	101.92	0.22
3400.00	2.56	73.60	3399.11	-7.49	45.97	-7.74	46.57	99.26	0.22
3500.00	2.17	76.32	3499.02	-6.41	49.94	-6.68	50.35	97.32	0.41
3600.00	1.89	81.36	3598.96	-5.72	53.41	-6.01	53.72	96.11	0.33
3700.00	1.41	71.99	3698.92	-5.09	56.22	-5.39	56.45	95.17	0.55
3800.00	1.08	73.73	3798.89	-4.44	58.30	-4.76	58.47	94.36	0.34
3900.00	0.91	72.10	3898.88	-3.93	59.96	-4.26	60.09	93.75	0.17
4000.00	0.60	78.22	3998.87	-3.58	61.23	-3.91	61.33	93.35	0.33
4100.00	0.70	58.00	4098.86	-3.16	62.25	-3.49	62.33	92.90	0.25
4200.00	0.60	51.86	4198.86	-2.51	63.18	-2.85	63.23	92.28	0.12
4300.00	0.42	62.92	4298.85	-2.03	63.91	-2.37	63.94	91.81	0.20
4400.00	0.57	73.55	4398.85	-1.72	64.71	-2.07	64.73	91.52	0.17
4500.00	0.32	49.37	4498.84	-1.40	65.40	-1.75	65.41	91.22	0.31
4600.00	0.31	46.32	4598.84	-1.03	65.80	-1.39	65.81	90.90	0.02
4700.00	0.51	57.86	4698.84	-0.60	66.38	-0.96	66.38	90.52	0.22
4800.00	0.39	39.05	4798.84	-0.10	66.98	-0.46	66.98	90.09	0.19
4900.00	0.37	84.02	4898.84	0.20	67.51	-0.17	67.51	89.83	0.29
5000.00	0.33	42.93	4998.83	0.44	68.03	0.07	68.03	89.63	0.25
5100.00	0.43	68.30	5098.83	0.79	68.58	0.42	68.58	89.34	0.20
5200.00	0.28	39.03	5198.83	1.12	69.09	0.75	69.09	89.07	0.23
5300.00	0.17	325.90	5298.83	1.43	69.16	1.06	69.17	88.81	0.28
5400.00	0.15	316.18	5398.83	1.65	68.99	1.27	69.01	88.63	0.03
5500.00	0.14	284.75	5498.83	1.77	68.78	1.40	68.81	88.53	0.08
5600.00	0.10	180.68	5598.83	1.71	68.67	1.34	68.69	88.57	0.19
5700.00	0.08	71.51	5698.83	1.65	68.73	1.28	68.75	88.63	0.14

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
5800.00	0.12	17.60	5798.83	1.77	68.82	1.39	68.84	88.53	0.09
5900.00	0.13	49.01	5898.83	1.94	68.94	1.56	68.96	88.39	0.07
6000.00	0.14	189.24	5998.83	1.89	69.00	1.52	69.03	88.43	0.25
6100.00	0.12	175.15	6098.83	1.67	68.99	1.29	69.01	88.62	0.04
6200.00	0.25	99.84	6198.83	1.53	69.22	1.15	69.23	88.74	0.25
6300.00	0.19	61.85	6298.83	1.56	69.58	1.19	69.60	88.71	0.16
6400.00	0.43	57.80	6398.83	1.84	70.04	1.46	70.06	88.49	0.24
6500.00	0.14	60.43	6498.82	2.10	70.46	1.72	70.49	88.29	0.29
6600.00	0.14	62.76	6598.82	2.22	70.68	1.83	70.71	88.20	0.01
6700.00	0.58	70.66	6698.82	2.44	71.26	2.05	71.31	88.04	0.45
6800.00	0.44	79.14	6798.82	2.68	72.12	2.29	72.17	87.87	0.16
6900.00	0.51	81.43	6898.81	2.82	72.94	2.43	73.00	87.79	0.07
7000.00	0.53	82.48	6998.81	2.95	73.84	2.55	73.90	87.71	0.02
7100.00	0.59	94.97	7098.80	2.96	74.81	2.56	74.86	87.73	0.13
7200.00	0.46	79.07	7198.80	3.00	75.71	2.59	75.77	87.73	0.19
7300.00	0.51	75.34	7298.80	3.19	76.55	2.77	76.61	87.62	0.06
7400.00	0.48	55.11	7398.79	3.54	77.32	3.12	77.41	87.38	0.18
7500.00	0.54	40.89	7498.79	4.14	77.98	3.72	78.09	86.96	0.14
7600.00	0.48	21.14	7598.79	4.89	78.44	4.46	78.59	86.44	0.19
7700.00	0.57	25.62	7698.78	5.73	78.81	5.30	79.01	85.84	0.10
7800.00	0.69	15.14	7798.78	6.76	79.18	6.33	79.47	85.12	0.16
7900.00	0.64	7.11	7898.77	7.89	79.40	7.46	79.79	84.33	0.10
8000.00	0.70	9.64	7998.76	9.04	79.57	8.61	80.09	83.52	0.07
8100.00	1.00	0.81	8098.75	10.52	79.69	10.09	80.38	82.48	0.33
8200.00	1.32	359.10	8198.73	12.55	79.68	12.11	80.66	81.05	0.32
8300.00	1.45	351.65	8298.70	14.95	79.48	14.51	80.87	79.35	0.22
8400.00	1.59	3.34	8398.67	17.58	79.38	17.15	81.30	77.51	0.34
8500.00	1.77	6.12	8498.62	20.50	79.63	20.07	82.22	75.56	0.20
8600.00	2.40	357.39	8598.56	24.13	79.70	23.70	83.27	73.15	0.71
8700.00	3.13	348.67	8698.44	28.91	79.06	28.48	84.18	69.92	0.84
8800.00	2.47	343.20	8798.32	33.64	77.90	33.22	84.86	66.64	0.71
8900.00	1.61	329.89	8898.26	36.92	76.58	36.50	85.01	64.26	0.98
9000.00	1.28	305.21	8998.23	38.77	74.97	38.36	84.40	62.65	0.69
9100.00	0.98	277.97	9098.21	39.53	73.20	39.14	83.20	61.63	0.60
9200.00	1.23	270.28	9198.19	39.66	71.28	39.27	81.57	60.91	0.29
9300.00	1.33	280.85	9298.16	39.88	69.06	39.51	79.75	59.99	0.26
9400.00	1.23	277.38	9398.14	40.24	66.85	39.87	78.03	58.96	0.13
9500.00	0.93	283.76	9498.12	40.57	65.00	40.22	76.62	58.03	0.32
9600.00	1.01	285.90	9598.11	41.00	63.36	40.66	75.47	57.09	0.08

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
9700.00	0.84	284.97	9698.09	41.43	61.81	41.10	74.41	56.17	0.17
9800.00	0.81	283.54	9798.08	41.79	60.42	41.46	73.46	55.33	0.03
9900.00	1.35	303.78	9898.06	42.61	58.75	42.29	72.57	54.05	0.65
10000.00	1.85	323.32	9998.03	44.56	56.80	44.25	72.19	51.89	0.73
10100.00	1.85	317.46	10097.97	47.05	54.75	46.75	72.18	49.33	0.19
10127.00	1.97	322.37	10124.96	47.73	54.17	47.44	72.20	48.61	0.75



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Dustin Wedel
Playa 2 State No. 002H / API 30-025-40549



VES Survey Date: 07/25/2012

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.

PLAYA 2 STATE #2H / 30-025-40549

LEA COUNTY, NM

Rig: MCVAY 8

PathFinder Office Supervisor: JUAN ALCOCER

PathFinder Field Engineers: A.CASTILLO
F.LICERO

NOV 06 2012

RECEIVED

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.40.58.7161 N LON: 103.32.13.6027 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 786312.8800 Y: 613117.2800

North Aligned To: GRID NORTH

Total Magnetic Correction: 7.04° EAST TO GRID

Vertical Section Plane: 359.69

Survey Vert. Reference: 19.00' Rotary Table To Ground

Altitude: 3984.60' Ground To MSL

Survey Calculations by RX5 V6.04A using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE VAUGHN ENERGY SERVICE GYRO SURVEYS										
100.00	0.30	256.30	100.00	0.00	-0.10	0.11 S	0.24 W	0.27@	246.75	0.00
200.00	0.50	297.92	200.00	100.00	0.04	0.04 N	0.88 W	0.89@	272.41	0.34
300.00	0.30	263.33	300.00	100.00	0.22	0.21 N	1.53 W	1.54@	277.86	0.31
400.00	0.19	248.24	400.00	100.00	0.13	0.12 N	1.94 W	1.95@	273.51	0.13
500.00	0.48	248.26	499.99	100.00	-0.08	0.10 S	2.49 W	2.49@	267.76	0.29
600.00	0.37	264.17	599.99	100.00	-0.27	0.29 S	3.20 W	3.21@	264.90	0.16
700.00	0.30	272.04	699.99	100.00	-0.29	0.31 S	3.78 W	3.79@	265.33	0.08
800.00	0.30	298.60	799.99	100.00	-0.15	0.17 S	4.27 W	4.28@	267.67	0.14
900.00	0.17	343.58	899.99	100.00	0.12	0.09 N	4.54 W	4.54@	271.18	0.22
1000.00	0.16	72.87	999.99	100.00	0.30	0.28 N	4.45 W	4.46@	273.56	0.23
1100.00	0.15	109.28	1099.99	100.00	0.30	0.27 N	4.19 W	4.20@	273.75	0.10
1200.00	0.12	181.00	1199.99	100.00	0.15	0.13 N	4.07 W	4.08@	271.79	0.16
1300.00	0.29	158.54	1299.99	100.00	-0.19	0.21 S	3.98 W	3.99@	266.94	0.19
1400.00	0.55	155.16	1399.98	100.00	-0.86	0.88 S	3.69 W	3.79@	256.52	0.26
1500.00	0.42	149.35	1499.98	100.00	-1.62	1.64 S	3.30 W	3.68@	243.64	0.14
1600.00	0.55	141.18	1599.98	100.00	-2.31	2.32 S	2.81 W	3.65@	230.42	0.15
1700.00	0.60	135.38	1699.97	100.00	-3.06	3.07 S	2.14 W	3.75@	214.91	0.08
1800.00	0.61	135.47	1799.97	100.00	-3.82	3.82 S	1.40 W	4.07@	200.14	0.01
1900.00	0.69	132.23	1899.96	100.00	-4.60	4.61 S	0.58 W	4.64@	187.21	0.09
2000.00	1.13	131.55	1999.95	100.00	-5.67	5.67 S	0.60 E	5.70@	173.95	0.44
2100.00	1.62	113.62	2099.92	100.00	-6.90	6.89 S	2.63 E	7.37@	159.07	0.65
2200.00	1.67	112.21	2199.88	100.00	-8.03	8.00 S	5.28 E	9.59@	146.60	0.06
2300.00	1.61	108.20	2299.84	100.00	-9.04	8.99 S	7.96 E	12.01@	138.48	0.13
2400.00	1.67	100.44	2399.80	100.00	-9.75	9.70 S	10.73 E	14.46@	132.10	0.23
2500.00	1.49	106.79	2499.76	100.00	-10.41	10.34 S	13.41 E	16.93@	127.63	0.25

SUR: M-2-19s-34e, 330/S & 760/W
 BHL: D-2-19s-34e, 390/N & 731/W
 API # 30-025-40549

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
PLAYA 2 STATE #2H / 30-025-40549
LEA COUNTY, NM
RIG:MCVAY 8

Page 02/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2600.00	1.56	101.92	2599.72	100.00	-11.08	10.99 S	15.98 E	19.40@	124.52	0.15
2700.00	1.53	105.39	2699.69	100.00	-11.73	11.63 S	18.60 E	21.94@	122.01	0.10
2800.00	1.63	93.30	2799.65	100.00	-12.18	12.06 S	21.31 E	24.49@	119.52	0.35
2900.00	2.04	90.83	2899.60	100.00	-12.30	12.17 S	24.51 E	27.36@	116.41	0.42
3000.00	2.30	82.92	2999.52	100.00	-12.10	11.95 S	28.28 E	30.70@	112.91	0.40
3100.00	2.67	73.46	3099.43	100.00	-11.22	11.04 S	32.50 E	34.33@	108.76	0.55
3200.00	2.60	77.76	3199.33	100.00	-10.10	9.90 S	36.95 E	38.26@	104.99	0.21
3300.00	2.77	74.77	3299.22	100.00	-9.00	8.78 S	41.50 E	42.42@	101.95	0.22
3400.00	2.56	73.60	3399.11	100.00	-7.76	7.51 S	45.98 E	46.59@	99.28	0.22
3500.00	2.17	76.32	3499.02	100.00	-6.71	6.44 S	49.96 E	50.37@	97.34	0.41
3600.00	1.89	81.36	3598.96	100.00	-6.03	5.74 S	53.43 E	53.73@	96.13	0.33
3700.00	1.41	71.99	3698.92	100.00	-5.42	5.11 S	56.23 E	56.46@	95.20	0.55
3800.00	1.08	73.73	3798.89	100.00	-4.78	4.47 S	58.30 E	58.47@	94.38	0.33
3900.00	0.91	72.10	3898.88	100.00	-4.28	3.96 S	59.96 E	60.09@	93.78	0.17
4000.00	0.60	78.22	3998.87	100.00	-3.94	3.61 S	61.23 E	61.34@	93.37	0.32
4100.00	0.70	58.00	4098.86	100.00	-3.52	3.18 S	62.26 E	62.34@	92.92	0.25
4200.00	0.60	51.86	4198.86	100.00	-2.87	2.53 S	63.19 E	63.24@	92.29	0.12
4300.00	0.42	62.92	4298.85	100.00	-2.39	2.04 S	63.93 E	63.96@	91.83	0.20
4400.00	0.57	73.55	4398.85	100.00	-2.08	1.73 S	64.73 E	64.76@	91.53	0.17
4500.00	0.32	49.37	4498.85	100.00	-1.77	1.41 S	65.42 E	65.44@	91.24	0.31
4600.00	0.31	46.32	4598.84	100.00	-1.40	1.04 S	65.83 E	65.84@	90.91	0.02
4700.00	0.51	57.86	4698.84	100.00	-0.98	0.62 S	66.40 E	66.40@	90.53	0.21
4800.00	0.39	39.05	4798.84	100.00	-0.48	0.12 S	66.99 E	66.99@	90.10	0.19
4900.00	0.37	84.02	4898.84	100.00	-0.19	0.18 N	67.53 E	67.53@	89.85	0.29
5000.00	0.33	42.93	4998.84	100.00	0.06	0.42 N	68.05 E	68.05@	89.64	0.25
5100.00	0.43	68.30	5098.83	100.00	0.40	0.77 N	68.59 E	68.60@	89.35	0.19
5200.00	0.28	39.03	5198.83	100.00	0.73	1.10 N	69.09 E	69.10@	89.09	0.23
5300.00	0.17	325.90	5298.83	100.00	1.04	1.42 N	69.16 E	69.18@	88.83	0.28

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5400.00	0.15	316.18	5398.83	100.00	1.26	1.63 N	68.99 E	69.01@	88.64	0.03
5500.00	0.14	284.75	5498.83	100.00	1.39	1.76 N	68.78 E	68.80@	88.54	0.08
5600.00	0.10	180.68	5598.83	100.00	1.33	1.70 N	68.66 E	68.68@	88.58	0.19
5700.00	0.08	71.51	5698.83	100.00	1.27	1.64 N	68.73 E	68.75@	88.64	0.15
5800.00	0.12	17.60	5798.83	100.00	1.39	1.76 N	68.83 E	68.85@	88.54	0.10
5900.00	0.13	49.01	5898.83	100.00	1.56	1.93 N	68.94 E	68.97@	88.39	0.07
6000.00	0.14	189.24	5998.83	100.00	1.51	1.89 N	69.01 E	69.03@	88.43	0.25
6100.00	0.12	175.15	6098.83	100.00	1.29	1.66 N	69.00 E	69.02@	88.62	0.04
6200.00	0.25	99.84	6198.83	100.00	1.15	1.52 N	69.22 E	69.24@	88.74	0.25
6300.00	0.19	61.85	6298.83	100.00	1.19	1.56 N	69.58 E	69.60@	88.71	0.15
6400.00	0.43	57.80	6398.83	100.00	1.46	1.84 N	70.05 E	70.07@	88.50	0.24
6500.00	0.14	60.43	6498.83	100.00	1.72	2.10 N	70.47 E	70.50@	88.29	0.29
6600.00	0.14	62.76	6598.82	100.00	1.83	2.22 N	70.69 E	70.72@	88.20	0.01
6700.00	0.58	70.66	6698.82	100.00	2.05	2.44 N	71.27 E	71.31@	88.04	0.44
6800.00	0.44	79.14	6798.82	100.00	2.29	2.68 N	72.13 E	72.18@	87.87	0.16
6900.00	0.51	81.43	6898.82	100.00	2.42	2.82 N	72.94 E	73.00@	87.79	0.07
7000.00	0.53	82.48	6998.81	100.00	2.55	2.95 N	73.84 E	73.90@	87.72	0.02
7100.00	0.59	94.97	7098.81	100.00	2.56	2.96 N	74.81 E	74.87@	87.73	0.14
7200.00	0.46	79.07	7198.80	100.00	2.58	2.99 N	75.72 E	75.78@	87.74	0.19
7300.00	0.51	75.34	7298.80	100.00	2.77	3.18 N	76.54 E	76.61@	87.62	0.06
7400.00	0.48	55.11	7398.80	100.00	3.12	3.53 N	77.32 E	77.40@	87.38	0.18
7500.00	0.54	40.89	7498.79	100.00	3.71	4.13 N	77.97 E	78.08@	86.97	0.14
7600.00	0.48	21.14	7598.79	100.00	4.45	4.88 N	78.43 E	78.58@	86.44	0.19
7700.00	0.57	25.62	7698.78	100.00	5.29	5.72 N	78.80 E	79.00@	85.85	0.10
7800.00	0.69	15.14	7798.78	100.00	6.32	6.75 N	79.17 E	79.46@	85.13	0.17
7900.00	0.64	7.11	7898.77	100.00	7.45	7.88 N	79.40 E	79.79@	84.33	0.10
8000.00	0.70	9.64	7998.76	100.00	8.61	9.04 N	79.57 E	80.08@	83.52	0.07
8100.00	1.00	0.81	8098.75	100.00	10.08	10.51 N	79.68 E	80.37@	82.48	0.33

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8200.00	1.32	359.10	8198.73	100.00	12.10	12.54 N	79.68 E	80.66@	81.06	0.32
8300.00	1.45	351.65	8298.70	100.00	14.51	14.94 N	79.47 E	80.87@	79.35	0.22
8400.00	1.59	3.34	8398.67	100.00	17.15	17.58 N	79.37 E	81.29@	77.51	0.34
8500.00	1.77	6.12	8498.63	100.00	20.07	20.50 N	79.62 E	82.21@	75.56	0.20
8600.00	2.40	357.39	8598.56	100.00	23.69	24.12 N	79.69 E	83.26@	73.16	0.70
8700.00	3.13	348.67	8698.44	100.00	28.46	28.89 N	79.05 E	84.17@	69.92	0.84
8800.00	2.47	343.20	8798.32	100.00	33.21	33.63 N	77.89 E	84.85@	66.65	0.71
8900.00	1.61	329.89	8898.26	100.00	36.50	36.91 N	76.57 E	85.00@	64.26	0.98
9000.00	1.28	305.21	8998.23	100.00	38.36	38.77 N	74.95 E	84.38@	62.65	0.70
9100.00	0.98	277.97	9098.21	100.00	39.14	39.53 N	73.19 E	83.18@	61.63	0.61
9200.00	1.23	270.28	9198.19	100.00	39.27	39.66 N	71.27 E	81.56@	60.91	0.29
9300.00	1.33	280.85	9298.16	100.00	39.51	39.88 N	69.06 E	79.75@	59.99	0.26
9400.00	1.23	277.38	9398.14	100.00	39.87	40.24 N	66.85 E	78.03@	58.96	0.13
9500.00	0.93	283.76	9498.12	100.00	40.22	40.57 N	65.00 E	76.62@	58.03	0.32
9600.00	1.01	285.90	9598.11	100.00	40.66	41.00 N	63.36 E	75.47@	57.09	0.09
9700.00	0.84	284.97	9698.09	100.00	41.10	41.43 N	61.81 E	74.41@	56.16	0.17
9800.00	0.81	283.54	9798.08	100.00	41.46	41.79 N	60.41 E	73.46@	55.33	0.04
9900.00	1.35	303.78	9898.07	100.00	42.29	42.61 N	58.75 E	72.57@	54.05	0.65
10000.00	1.85	323.32	9998.03	100.00	44.25	44.56 N	56.80 E	72.19@	51.89	0.73
10100.00	1.85	317.46	10097.98	100.00	46.74	47.04 N	54.75 E	72.18@	49.33	0.19
** TIED INTO VAUGHN ENERGY SERVICE GYRO SURVEY AT 10127'MD										
10127.00	1.97	322.37	10124.96	27.00	47.44	47.73 N	54.17 E	72.20@	48.62	0.75
THE FOLOWING ARE PATHFINDER MWD SURVEYS										
10197.00	5.54	327.48	10194.80	70.00	51.25	51.53 N	51.62 E	72.94@	45.05	5.12
10229.00	9.06	331.28	10226.54	32.00	54.78	55.05 N	49.58 E	74.08@	42.01	11.10
10260.00	12.66	333.39	10256.98	31.00	59.97	60.23 N	46.88 E	76.32@	37.90	11.68
10292.00	15.92	337.68	10287.98	32.00	67.19	67.42 N	43.64 E	80.32@	32.91	10.71
10324.00	19.52	342.74	10318.46	32.00	76.37	76.59 N	40.39 E	86.59@	27.80	12.23

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10355.00	22.69	346.99	10347.38	31.00	87.16	87.37 N	37.50 E	95.08@	23.23	11.35
10387.00	25.15	352.75	10376.63	32.00	99.94	100.13 N	35.26 E	106.16@	19.40	10.59
10418.00	28.05	357.55	10404.35	31.00	113.76	113.95 N	34.11 E	118.95@	16.67	11.64
10450.00	30.69	1.62	10432.24	32.00	129.45	129.64 N	34.02 E	134.03@	14.71	10.34
10482.00	33.24	3.33	10459.39	32.00	146.37	146.56 N	34.76 E	150.62@	13.34	8.46
10514.00	34.82	4.14	10485.90	32.00	164.23	164.43 N	35.93 E	168.31@	12.33	5.14
10545.00	37.46	5.34	10510.94	31.00	182.44	182.64 N	37.45 E	186.44@	11.59	8.82
10577.00	39.39	4.50	10536.01	32.00	202.24	202.46 N	39.15 E	206.21@	10.94	6.25
10608.00	40.63	2.31	10559.75	31.00	222.13	222.35 N	40.33 E	225.98@	10.28	6.05
10640.00	41.94	359.67	10583.80	32.00	243.23	243.46 N	40.69 E	246.83@	9.49	6.81
10672.00	44.41	357.40	10607.13	32.00	265.12	265.34 N	40.12 E	268.35@	8.60	9.12
10704.00	47.57	355.43	10629.36	32.00	288.09	288.30 N	38.67 E	290.88@	7.64	10.82
10735.00	50.65	353.73	10649.66	31.00	311.43	311.63 N	36.45 E	313.75@	6.67	10.76
10767.00	52.85	352.36	10669.47	32.00	336.38	336.57 N	33.40 E	338.22@	5.67	7.65
10799.00	56.28	351.06	10688.02	32.00	362.20	362.36 N	29.64 E	363.57@	4.68	11.22
10830.00	60.23	349.88	10704.33	31.00	388.21	388.36 N	25.27 E	389.18@	3.72	13.15
10862.00	65.07	349.11	10719.02	32.00	416.18	416.29 N	20.08 E	416.78@	2.76	15.28
10894.00	69.12	349.01	10731.47	32.00	445.14	445.23 N	14.49 E	445.46@	1.86	12.66
10925.00	73.95	349.44	10741.29	31.00	474.05	474.11 N	8.99 E	474.19@	1.09	15.64
10957.00	78.70	350.10	10748.85	32.00	504.67	504.70 N	3.48 E	504.71@	0.39	14.98
10983.00	79.23	349.46	10753.83	26.00	529.81	529.81 N	1.05 W	529.81@	359.89	3.16
11020.00	79.40	349.46	10760.69	37.00	565.59	565.55 N	7.70 W	565.61@	359.22	0.46
11052.00	80.90	349.55	10766.16	32.00	596.62	596.55 N	13.45 W	596.71@	358.71	4.70
11083.00	82.92	349.37	10770.53	31.00	626.82	626.73 N	19.06 W	627.02@	358.26	6.54
11115.00	85.03	349.46	10773.89	32.00	658.13	658.01 N	24.90 W	658.48@	357.83	6.60
11147.00	87.05	349.46	10776.10	32.00	689.55	689.39 N	30.74 W	690.07@	357.45	6.31
11178.00	89.34	349.46	10777.07	31.00	720.04	719.85 N	36.41 W	720.77@	357.10	7.39
11210.00	90.84	349.55	10777.02	32.00	751.53	751.31 N	42.24 W	752.50@	356.78	4.70

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11305.00	92.51	351.84	10774.24	95.00	845.31	845.01 N	57.59 W	846.97@	356.10	2.98
11400.00	93.47	356.65	10769.29	95.00	939.73	939.38 N	67.11 W	941.77@	355.91	5.16
11495.00	92.95	359.98	10763.96	95.00	1034.54	1034.17 N	69.89 W	1036.53@	356.13	3.54
11588.00	93.21	0.08	10758.97	93.00	1127.40	1127.04 N	69.84 W	1129.20@	356.45	0.30
11683.00	93.39	1.58	10753.50	95.00	1222.22	1221.87 N	68.47 W	1223.79@	356.79	1.59
11778.00	91.89	4.16	10749.12	95.00	1316.96	1316.64 N	63.72 W	1318.18@	357.23	3.14
11874.00	90.31	4.33	10747.28	96.00	1412.64	1412.35 N	56.61 W	1413.49@	357.70	1.66
11969.00	90.48	3.61	10746.62	95.00	1507.37	1507.12 N	50.04 W	1507.95@	358.10	0.78
12063.00	90.66	3.02	10745.69	94.00	1601.18	1600.96 N	44.60 W	1601.58@	358.40	0.66
12158.00	90.92	2.64	10744.38	95.00	1696.03	1695.84 N	39.91 W	1696.30@	358.65	0.49
12253.00	91.10	2.64	10742.71	95.00	1790.89	1790.72 N	35.54 W	1791.07@	358.86	0.19
12348.00	90.84	2.11	10741.10	95.00	1885.77	1885.62 N	31.60 W	1885.89@	359.04	0.62
12443.00	91.10	2.06	10739.49	95.00	1980.67	1980.55 N	28.14 W	1980.75@	359.19	0.28
12538.00	90.66	2.13	10738.03	95.00	2075.58	2075.47 N	24.67 W	2075.62@	359.32	0.47
12633.00	91.28	1.93	10736.42	95.00	2170.48	2170.40 N	21.31 W	2170.50@	359.44	0.69
12727.00	91.89	2.49	10733.82	94.00	2264.35	2264.29 N	17.68 W	2264.36@	359.55	0.88
12821.00	92.24	2.46	10730.43	94.00	2358.18	2358.14 N	13.63 W	2358.18@	359.67	0.37
12917.00	92.24	0.98	10726.68	96.00	2454.05	2454.02 N	10.75 W	2454.05@	359.75	1.54
13012.00	91.63	1.08	10723.47	95.00	2548.97	2548.95 N	9.04 W	2548.97@	359.80	0.65
13107.00	89.52	359.69	10722.52	95.00	2643.95	2643.94 N	8.40 W	2643.95@	359.82	2.66
13202.00	89.16	359.02	10723.62	95.00	2738.94	2738.93 N	9.47 W	2738.94@	359.80	0.80
13297.00	89.60	359.22	10724.64	95.00	2833.93	2833.91 N	10.93 W	2833.93@	359.78	0.51
13392.00	89.96	359.05	10725.01	95.00	2928.92	2928.90 N	12.37 W	2928.92@	359.76	0.42
13487.00	90.57	359.04	10724.57	95.00	3023.91	3023.88 N	13.95 W	3023.91@	359.74	0.64
13581.00	91.01	359.36	10723.27	94.00	3117.90	3117.86 N	15.26 W	3117.90@	359.72	0.58
13676.00	91.54	359.16	10721.16	95.00	3212.88	3212.83 N	16.49 W	3212.88@	359.71	0.60
13771.00	92.07	359.45	10718.17	95.00	3307.83	3307.78 N	17.64 W	3307.83@	359.69	0.64
13866.00	91.63	358.98	10715.10	95.00	3402.77	3402.72 N	18.94 W	3402.77@	359.68	0.68

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13961.00	92.15	359.25	10711.97	95.00	3497.72	3497.66 N	20.41 W	3497.72@	359.67	0.62
14056.00	92.86	359.10	10707.81	95.00	3592.62	3592.55 N	21.77 W	3592.62@	359.65	0.76
14151.00	91.36	359.93	10704.32	95.00	3687.55	3687.48 N	22.58 W	3687.55@	359.65	1.80
14246.00	89.96	359.36	10703.22	95.00	3782.54	3782.47 N	23.17 W	3782.54@	359.65	1.59
14341.00	90.40	359.71	10702.92	95.00	3877.54	3877.47 N	23.94 W	3877.54@	359.65	0.59
14436.00	91.01	359.54	10701.75	95.00	3972.53	3972.46 N	24.56 W	3972.53@	359.65	0.67
14531.00	90.92	359.00	10700.15	95.00	4067.52	4067.44 N	25.77 W	4067.52@	359.64	0.58
14626.00	90.75	358.85	10698.77	95.00	4162.50	4162.41 N	27.55 W	4162.50@	359.62	0.24
14721.00	91.19	358.78	10697.16	95.00	4257.47	4257.38 N	29.52 W	4257.48@	359.60	0.47
14816.00	91.71	358.91	10694.76	95.00	4352.43	4352.33 N	31.43 W	4352.44@	359.59	0.56
14909.00	91.19	0.91	10692.40	93.00	4445.40	4445.29 N	31.58 W	4445.40@	359.59	2.22
15001.00	91.71	1.02	10690.08	92.00	4537.34	4537.25 N	30.03 W	4537.35@	359.62	0.58
15095.00	92.33	0.29	10686.76	94.00	4631.27	4631.18 N	28.95 W	4631.27@	359.64	1.02
15161.00	92.95	0.66	10683.72	66.00	4697.19	4697.11 N	28.41 W	4697.20@	359.65	1.09
STRAIGHT LINE PROJECTION TO BIT @ 15218'MD										
15218.00	92.95	0.66	10680.79	57.00	4754.11	4754.03 N	27.75 W	4754.11@	359.67	0.00

** The survey data at tie-in point was furnished by a recognized survey company and entered as submitted. Survey stations above the tie-in point represent recalculated data by PathFinder Energy Services, Inc. and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.