



A GYRO TECHNOLOGIES INC. COMPANY

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

September 27, 2012

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

HOBBS OCD

JAN 02 2013

RECEIVED

Attn: Patti Riechers

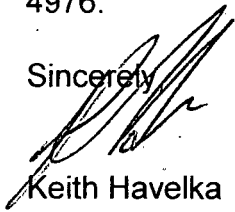
Re: **Shinnery 14 Federal No. 010H**

SUR: H-14-18s-32e, 2110/N & 330/E
BHL: E-14-18s-32e, 2001/N & 4479/E
API # 30-025-40072

Please find enclosed a copy of the survey from 0.00' to 8563.00' ran on the above referenced well.

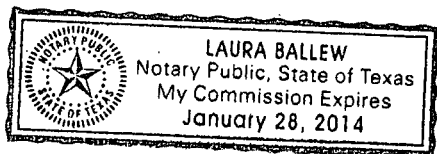
If I can be of any further service please do not hesitate to call me at 800-606-4976.

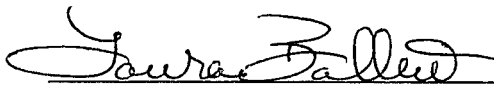
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 1st day of October, A.D., 2012, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas



Company: Devon
Rig: McVay 8
Latitude: 32.7489
Longitude: -103.7295
API # 30-025-40072
Date: 9/18/12

Well: Shinnery 14 Fed #10H
Location: Lea Co. NM
North Reference: GRID
RKB: 18 Feet
Surveyor: Dustin Wedel
VS: 270.000

Field copy only not definitive.

Depth	Inc	AzG	N/-S	E/-W	TVD	DL	VS	CD	Cbrg
0.00	0.00	0.00	0.00	0.00	0.00	****	0.00	0.00	0.00
100.00	0.41	319.08	0.27	-0.23	100.00	0.41	0.23	0.35	319.08
200.00	0.81	278.16	0.64	-1.17	199.99	0.57	1.17	1.33	298.62
300.00	0.67	240.74	0.45	-2.38	299.99	0.49	2.38	2.42	280.81
400.00	0.52	203.32	-0.25	-3.06	399.98	0.40	3.06	3.07	265.41
500.00	0.67	216.80	-1.13	-3.59	499.98	0.20	3.59	3.76	252.55
600.00	0.82	230.29	-2.05	-4.49	599.97	0.23	4.49	4.93	245.44
700.00	0.99	242.20	-2.91	-5.80	699.95	0.25	5.80	6.49	243.36
800.00	1.16	254.12	-3.59	-7.54	799.94	0.28	7.54	8.35	244.54
900.00	1.28	251.92	-4.21	-9.58	899.91	0.13	9.58	10.46	246.25
1000.00	1.40	249.72	-4.98	-11.78	999.89	0.13	11.78	12.79	247.08
1100.00	0.91	249.37	-5.68	-13.67	1099.87	0.48	13.67	14.80	247.42
1200.00	0.43	249.03	-6.10	-14.76	1199.86	0.48	14.76	15.97	247.55
1300.00	0.50	274.11	-6.20	-15.54	1299.86	0.21	15.54	16.73	248.25
1400.00	0.57	299.20	-5.93	-16.41	1399.85	0.24	16.41	17.45	250.15
1500.00	0.68	309.60	-5.31	-17.30	1499.85	0.16	17.30	18.10	252.95
1600.00	0.79	320.00	-4.40	-18.20	1599.84	0.17	18.20	18.73	256.40
1700.00	0.61	358.97	-3.34	-18.65	1699.83	0.49	18.65	18.95	259.84
1800.00	0.44	37.94	-2.51	-18.42	1799.83	0.39	18.42	18.59	262.25
1900.00	0.91	34.92	-1.55	-17.74	1899.82	0.47	17.74	17.80	264.99
2000.00	1.38	31.90	0.12	-16.64	1999.80	0.47	16.64	16.65	270.41
2100.00	1.80	35.62	2.42	-15.09	2099.76	0.43	15.09	15.29	279.11
2200.00	2.22	39.35	5.20	-12.95	2199.70	0.44	12.95	13.95	291.87
2300.00	2.47	45.67	8.20	-10.17	2299.62	0.36	10.17	13.07	308.89
2400.00	2.72	52.00	11.17	-6.76	2399.51	0.38	6.76	13.06	328.83
2500.00	2.88	54.07	14.11	-2.85	2499.39	0.19	2.85	14.40	348.57
2600.00	3.04	56.13	17.06	1.38	2599.26	0.19	-1.38	17.12	4.64
2700.00	2.58	61.50	19.62	5.57	2699.14	0.53	-5.57	20.39	15.84
2800.00	2.13	66.86	21.42	9.25	2799.05	0.51	-9.25	23.34	23.36
2900.00	1.88	76.88	22.52	12.56	2898.99	0.43	-12.56	25.79	29.14
3000.00	1.63	86.90	22.97	15.58	2998.95	0.39	-15.58	27.76	34.14
3100.00	1.45	88.68	23.08	18.26	3098.91	0.19	-18.26	29.43	38.35
3200.00	1.26	90.47	23.10	20.62	3198.88	0.19	-20.62	30.97	41.76
3300.00	1.20	83.76	23.20	22.76	3298.86	0.16	-22.76	32.50	44.45
3400.00	1.14	77.05	23.54	24.77	3398.84	0.15	-24.77	34.17	46.45
3500.00	1.10	77.85	23.97	26.67	3498.82	0.04	-26.67	35.86	48.06
3600.00	1.06	78.66	24.35	28.52	3598.80	0.04	-28.52	37.50	49.51
3700.00	1.04	84.07	24.63	30.33	3698.79	0.10	-30.33	39.07	50.93

3800.00	1.02	89.49	24.73	32.12	3798.77	0.10	-32.12	40.53	52.41
3900.00	0.87	71.44	24.98	33.73	3898.76	0.33	-33.73	41.97	53.48
4000.00	0.73	53.40	25.60	34.96	3998.75	0.29	-34.96	43.33	53.79
4100.00	0.78	68.05	26.24	36.11	4098.74	0.20	-36.11	44.63	54.00
4200.00	0.84	82.70	26.59	37.47	4198.73	0.21	-37.47	45.94	54.64
4300.00	0.61	143.56	26.25	38.51	4298.72	0.76	-38.51	46.61	55.72
4400.00	0.38	204.42	25.53	38.69	4398.72	0.54	-38.69	46.35	56.58
4500.00	0.31	219.61	25.02	38.38	4498.72	0.11	-38.38	45.81	56.90
4600.00	0.24	234.80	24.69	38.04	4598.72	0.10	-38.04	45.35	57.01
4700.00	0.38	204.62	24.26	37.72	4698.71	0.21	-37.72	44.85	57.25
4800.00	0.53	174.43	23.50	37.63	4798.71	0.28	-37.63	44.36	58.02
4900.00	0.52	181.73	22.59	37.66	4898.71	0.07	-37.66	43.92	59.04
5000.00	0.50	189.03	21.70	37.58	4998.70	0.07	-37.58	43.40	59.99
5100.00	0.46	193.40	20.88	37.42	5098.70	0.06	-37.42	42.85	60.84
5200.00	0.42	197.77	20.14	37.21	5198.70	0.05	-37.21	42.31	61.58
5300.00	0.43	188.22	19.42	37.05	5298.69	0.07	-37.05	41.83	62.34
5400.00	0.45	178.67	18.65	37.00	5398.69	0.07	-37.00	41.44	63.24
5500.00	0.47	246.92	18.10	36.63	5498.69	0.52	-36.63	40.86	63.70
5600.00	0.50	315.16	18.25	35.94	5598.68	0.55	-35.94	40.31	63.08
5700.00	0.57	347.23	19.04	35.53	5698.68	0.30	-35.53	40.31	61.81
5800.00	0.65	19.29	20.07	35.60	5798.68	0.34	-35.60	40.87	60.59
5900.00	0.73	73.58	20.78	36.40	5898.67	0.64	-36.40	41.92	60.28
6000.00	0.82	127.87	20.52	37.58	5998.66	0.71	-37.58	42.82	61.36
6100.00	0.71	116.23	19.81	38.70	6098.65	0.19	-38.70	43.48	62.89
6200.00	0.59	104.58	19.41	39.75	6198.65	0.17	-39.75	44.24	63.98
6300.00	0.43	135.44	19.01	40.52	6298.64	0.31	-40.52	44.76	64.87
6400.00	0.27	166.30	18.51	40.84	6398.64	0.24	-40.84	44.84	65.61
6500.00	0.53	171.18	17.83	40.96	6498.64	0.26	-40.96	44.68	66.48
6600.00	0.79	176.05	16.69	41.08	6598.63	0.27	-41.08	44.34	67.89
6700.00	1.03	202.76	15.17	40.78	6698.62	0.48	-40.78	43.51	69.60
6800.00	1.28	229.47	13.61	39.59	6798.60	0.58	-39.59	41.86	71.02
6900.00	0.70	189.52	12.28	38.64	6898.58	0.86	-38.64	40.54	72.36
7000.00	0.13	149.57	11.58	38.60	6998.58	0.61	-38.60	40.29	73.30
7100.00	0.51	145.32	11.11	38.91	7098.58	0.38	-38.91	40.46	74.06
7200.00	0.89	141.06	10.14	39.65	7198.57	0.38	-39.65	40.93	75.65
7300.00	0.98	140.75	8.88	40.68	7298.56	0.09	-40.68	41.63	77.69
7400.00	1.07	140.44	7.50	41.81	7398.54	0.09	-41.81	42.48	79.83
7500.00	1.37	143.41	5.82	43.12	7498.52	0.30	-43.12	43.51	82.31
7600.00	1.66	146.38	3.65	44.63	7598.49	0.31	-44.63	44.78	85.32
7700.00	1.84	150.92	1.04	46.22	7698.44	0.23	-46.22	46.23	88.71
7800.00	2.03	155.46	-1.98	47.73	7798.38	0.24	-47.73	47.78	92.37
7900.00	1.88	164.72	-5.17	48.90	7898.32	0.35	-48.90	49.17	96.03
8000.00	1.74	173.99	-8.26	49.49	7998.27	0.33	-49.49	50.18	99.48
8100.00	1.66	159.95	-11.14	50.15	8098.23	0.42	-50.15	51.37	102.52
8200.00	1.59	145.90	-13.65	51.42	8198.19	0.40	-51.42	53.20	104.86
8300.00	2.03	153.75	-16.38	52.98	8298.14	0.51	-52.98	55.46	107.18
8400.00	2.48	161.61	-20.03	54.45	8398.06	0.54	-54.45	58.02	110.19

8500.00	2.29	147.72	-23.77	56.20	8497.98	0.60	-56.20	61.02	112.93
8563.00	2.18	138.98	-25.74	57.66	8560.93	0.57	-57.66	63.15	114.06

HORIZONTAL DISPLACEMENT IS
63.15 FEET AT 114.06 DEGREES

THANK YOU,
DUSTIN WEDEL
VAUGHN ENERGY SERVICES

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

Devon Energy
Shinnery "14" Fed
Lea County, New Mexico
Rig: McVay 8

OFFICE

Mon Sep 17 08:39:57 2012

Coordinates

Latitude: 32.748911 N (32 deg. 44 min. 56.0806 sec.)
Longitude: 103.729479 W (-103 deg. 43 min. 46.1254 sec.)
Elevation: 3844.10 feet.
Calculation Date: Sep/17/2012

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.6137 degrees
Total Magnetic Field: 0.48786 gauss
Magnetic Declination: 7.543263 degrees
Horizontal Intensity: 0.239391 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.543263 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 726989.0200 feet
Y: 636714.9500 feet
True to Grid: (convergence) -0.326669 degrees
Magnetic to Grid: 7.216595 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.216595 Degr.

PathFinder Energy Services, Inc.

Magnetic & Grid Calculations

DEVON ENERGY PRODUCTION COMPANY
SHINNERY_14 FED 10H
2ND BONE SPRING UPPER SAND

FIELD

Wed Sep 19 19:11:50 2012

Coordinates

Latitude: 32.748911 N (32 deg. 44 min. 56.0806 sec.)
Longitude: 103.729479 W (-103 deg. 43 min. 46.1254 sec.)
Elevation: 3844.10 feet.
Calculation Date: Sep/19/2012

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.6136 degrees
Total Magnetic Field: 0.48786 gauss
Magnetic Declination: 7.542587 degrees
Horizontal Intensity: 0.239389 gauss
To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.542587 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 726989.0200 feet
Y: 636714.9500 feet
True to Grid: (convergence) -0.326669 degrees
Magnetic to Grid: 7.215918 degrees
To Convert a Magnetic Dir. to a GRID dir. Add 7.215918 Degr.