

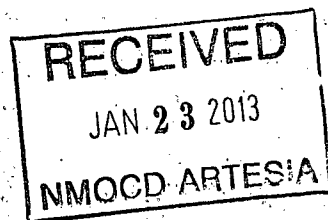


A GYRO TECHNOLOGIES INC. COMPANY

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

May 30, 2012

Devon Energy Production Co., L. P.
20 North Broadway
Oklahoma City, OK 73102-8260



Attn: Mark Cooper

15-40098

Re: **Regulus 26 Federal No. 001H**

Please find enclosed a copy of the survey from 0' to 8600' ran on the above referenced well.

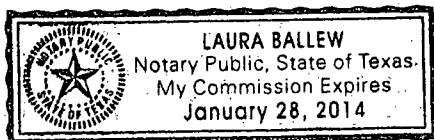
If I can be of any further service please do not hesitate to call me at 800-606-4976.

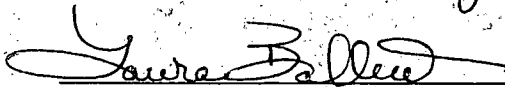
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

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





Laura Ballew
Notary Public, State of Texas



Company: DEVON ENERGY PRODUCTION CO. LP

Lease/Well: REGULUS 26 FEDERAL /No. 001H

Rig Name: H&P #300

State/County: NEW MEXICO/EDDY

Latitude: 32.64

GRID North is 0.27 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB = 25

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: eline.ut

Minimum Curvature Method

Report Date/Time: 5/30/2012 / 13:56

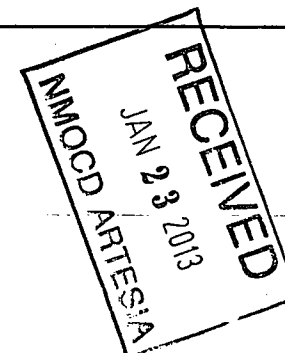
VAUGHN ENERGY SERVICES

CONWAY, ARKANSAS

501-730-0602

SURVEYOR: SLAYTON THOMAS

REGULUS 26 FEDERAL NO. 001H / API 30-015-40098



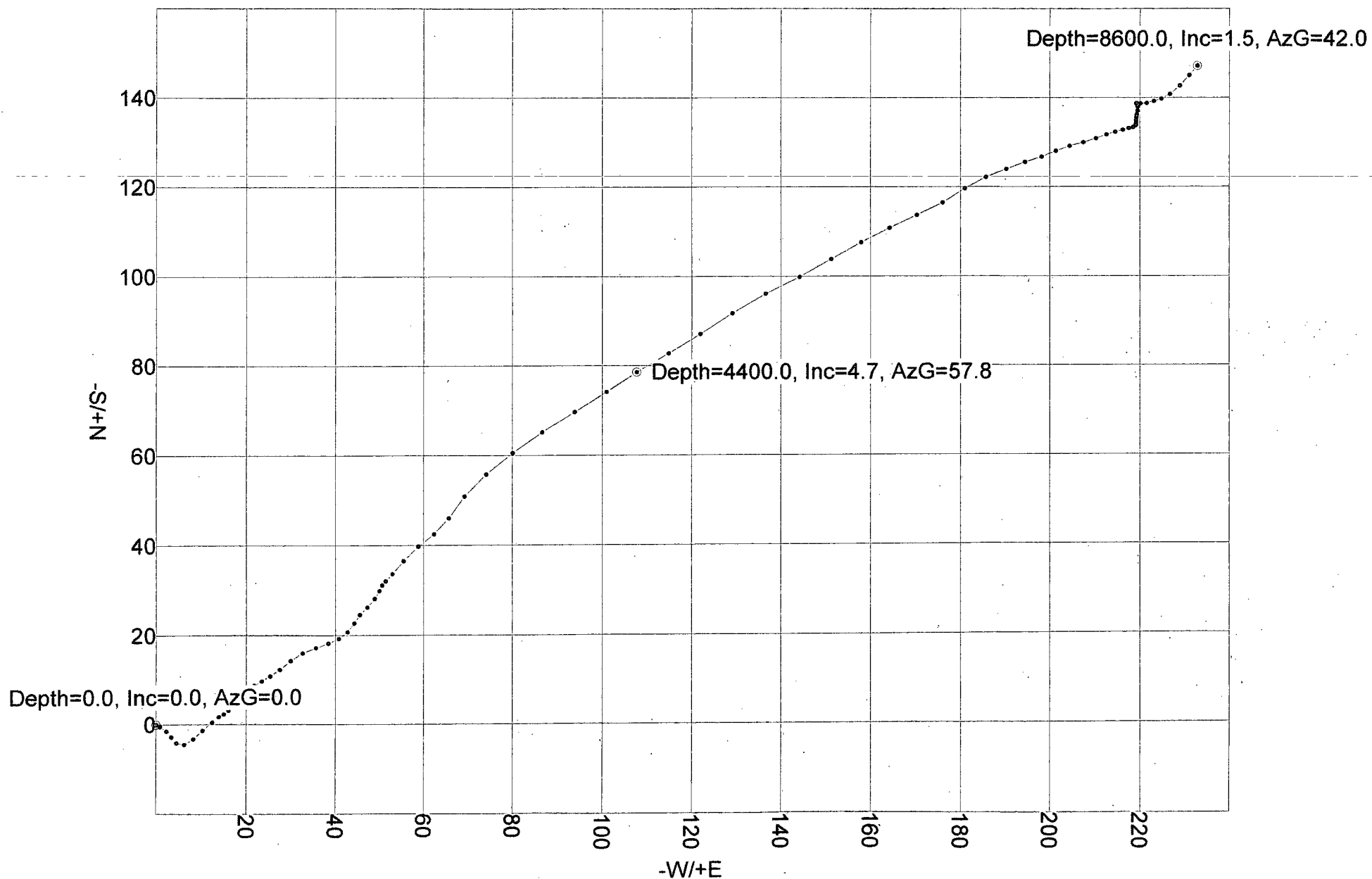
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	1.07	116.80	99.99	-0.42	0.84	-0.42	0.94	116.80	1.07
200.00	1.02	136.91	199.98	-1.50	2.28	-1.50	2.73	123.26	0.37
300.00	0.94	144.75	299.96	-2.82	3.37	-2.82	4.39	129.95	0.16
400.00	1.08	135.13	399.95	-4.16	4.50	-4.16	6.13	132.70	0.22
500.00	1.27	73.06	499.93	-4.50	6.22	-4.50	7.68	125.86	1.22
600.00	1.49	45.50	599.90	-3.26	8.21	-3.26	8.84	111.66	0.69
700.00	1.74	47.26	699.86	-1.32	10.25	-1.32	10.34	97.33	0.25
800.00	1.45	52.63	799.82	0.48	12.37	0.48	12.38	87.80	0.33
900.00	0.75	46.78	899.80	1.69	13.85	1.69	13.95	83.05	0.71
1000.00	0.76	72.72	999.80	2.33	14.96	2.33	15.14	81.14	0.34
1100.00	0.85	34.70	1099.79	3.14	16.02	3.14	16.32	78.91	0.53
1200.00	0.99	41.62	1199.77	4.39	17.01	4.39	17.57	75.52	0.18
1300.00	0.91	57.81	1299.76	5.46	18.26	5.46	19.06	73.35	0.28
1400.00	0.75	44.79	1399.75	6.35	19.39	6.35	20.41	71.86	0.24
1500.00	1.03	45.05	1499.74	7.46	20.50	7.46	21.81	70.01	0.28
1600.00	1.02	50.94	1599.72	8.65	21.82	8.65	23.48	68.37	0.11
1700.00	1.19	61.31	1699.70	9.71	23.43	9.71	25.36	67.48	0.26
1800.00	1.35	60.08	1799.68	10.80	25.36	10.80	27.56	66.93	0.16

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	1.66	52.06	1899.64	12.28	27.52	12.28	30.14	65.95	0.38
2000.00	1.94	49.60	1999.59	14.27	29.96	14.27	33.19	64.53	0.29
2100.00	1.75	65.55	2099.54	16.00	32.64	16.00	36.35	63.88	0.55
2200.00	1.89	70.14	2199.49	17.19	35.58	17.19	39.51	64.21	0.20
2300.00	1.55	71.27	2299.45	18.19	38.40	18.19	42.49	64.66	0.34
2400.00	1.40	60.78	2399.42	19.22	40.75	19.22	45.05	64.75	0.31
2500.00	1.48	43.55	2499.38	20.75	42.70	20.75	47.48	64.09	0.44
2600.00	1.46	30.17	2599.35	22.79	44.23	22.79	49.76	62.75	0.34
2700.00	1.12	39.56	2699.33	24.64	45.49	24.64	51.74	61.56	0.40
2800.00	1.63	47.19	2799.30	26.36	47.16	26.36	54.02	60.80	0.55
2900.00	1.31	34.99	2899.26	28.26	48.86	28.26	56.44	59.95	0.45
3000.00	1.03	26.37	2999.24	30.00	49.91	30.00	58.23	58.99	0.33
3100.00	0.58	29.39	3099.23	31.24	50.56	31.24	59.43	58.29	0.45
3200.00	0.80	50.55	3199.23	32.12	51.34	32.12	60.56	57.97	0.34
3300.00	1.77	40.64	3299.20	33.74	52.89	33.74	62.73	57.46	0.99
3400.00	2.61	42.21	3399.13	36.60	55.42	36.60	66.42	56.56	0.84
3500.00	2.72	49.89	3499.02	39.81	58.76	39.81	70.98	55.88	0.37
3600.00	2.51	56.88	3598.91	42.53	62.41	42.53	75.53	55.73	0.38
3700.00	3.19	31.50	3698.79	46.11	65.71	46.11	80.27	54.94	1.42
3800.00	3.77	39.81	3798.61	51.01	69.27	51.01	86.02	53.63	0.77
3900.00	4.15	49.50	3898.37	55.88	74.13	55.88	92.83	52.99	0.77
4000.00	4.54	53.57	3998.08	60.59	80.07	60.59	100.41	52.88	0.50
4100.00	4.69	56.27	4097.76	65.21	86.65	65.21	108.45	53.04	0.26
4200.00	5.06	59.77	4197.40	69.70	93.85	69.70	116.90	53.40	0.47
4300.00	4.59	55.51	4297.04	74.18	100.96	74.18	125.28	53.69	0.59
4400.00	4.71	57.76	4396.72	78.63	107.73	78.63	133.37	53.87	0.22
4500.00	4.71	60.52	4496.38	82.85	114.78	82.85	141.55	54.18	0.23
4600.00	4.90	57.68	4596.03	87.15	121.96	87.15	149.89	54.45	0.31
4700.00	4.93	56.18	4695.66	91.82	129.13	91.82	158.45	54.58	0.13
4800.00	4.98	63.70	4795.29	96.14	136.60	96.14	167.03	54.86	0.65
4900.00	4.67	63.64	4894.93	99.87	144.14	99.87	175.35	55.28	0.31
5000.00	4.65	57.32	4994.60	103.86	151.20	103.86	183.43	55.51	0.51
5100.00	4.18	64.94	5094.31	107.60	157.91	107.60	191.09	55.73	0.75
5200.00	3.95	61.12	5194.05	110.81	164.24	110.81	198.12	55.99	0.36
5300.00	3.79	67.44	5293.83	113.74	170.30	113.74	204.79	56.26	0.46
5400.00	3.55	60.76	5393.62	116.52	176.05	116.52	211.11	56.50	0.49
5500.00	3.20	53.13	5493.45	119.70	180.98	119.70	216.98	56.52	0.57
5600.00	2.99	71.04	5593.31	122.22	185.68	122.22	222.29	56.65	0.98
5700.00	2.63	66.40	5693.19	123.99	190.25	123.99	227.09	56.91	0.43

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	2.48	72.39	5793.09	125.56	194.41	125.56	231.44	57.14	0.31
5900.00	2.00	72.11	5893.01	126.75	198.13	126.75	235.21	57.39	0.48
6000.00	1.96	63.87	5992.95	128.04	201.32	128.04	238.59	57.54	0.29
6100.00	1.78	77.01	6092.90	129.14	204.37	129.14	241.75	57.71	0.46
6200.00	1.85	73.58	6192.85	129.94	207.43	129.94	244.77	57.94	0.13
6300.00	1.50	70.38	6292.80	130.84	210.22	130.84	247.61	58.10	0.36
6400.00	1.32	67.54	6392.77	131.72	212.51	131.72	250.02	58.21	0.20
6500.00	1.04	81.04	6492.75	132.30	214.48	132.30	252.00	58.33	0.39
6600.00	1.01	69.11	6592.74	132.76	216.20	132.76	253.70	58.45	0.22
6700.00	0.54	83.39	6692.73	133.12	217.49	133.12	254.99	58.53	0.51
6800.00	0.60	69.09	6792.72	133.36	218.44	133.36	255.93	58.59	0.15
6900.00	0.37	29.61	6892.72	133.83	219.09	133.83	256.73	58.58	0.39
7000.00	0.18	332.71	6992.72	134.25	219.17	134.25	257.02	58.51	0.31
7100.00	0.53	8.10	7092.72	134.85	219.17	134.85	257.33	58.40	0.40
7200.00	0.35	357.95	7192.71	135.61	219.22	135.61	257.78	58.26	0.20
7300.00	0.34	18.04	7292.71	136.19	219.30	136.19	258.15	58.16	0.12
7400.00	0.68	5.69	7392.71	137.06	219.45	137.06	258.74	58.01	0.36
7500.00	0.45	351.39	7492.70	138.04	219.45	138.04	259.26	57.83	0.26
7600.00	0.25	311.92	7592.70	138.58	219.23	138.58	259.35	57.70	0.31
7700.00	0.06	90.64	7692.70	138.72	219.12	138.72	259.34	57.66	0.30
7800.00	0.18	102.99	7792.70	138.69	219.32	138.69	259.49	57.69	0.13
7900.00	0.70	86.93	7892.70	138.68	220.09	138.68	260.14	57.78	0.53
8000.00	0.89	81.06	7992.69	138.84	221.46	138.84	261.38	57.92	0.21
8100.00	1.06	71.41	8092.67	139.25	223.10	139.25	262.99	58.03	0.23
8200.00	0.93	72.86	8192.66	139.78	224.75	139.78	264.67	58.12	0.13
8300.00	1.57	55.49	8292.63	140.79	226.65	140.79	266.82	58.15	0.74
8400.00	1.86	42.99	8392.59	142.76	228.88	142.76	269.75	58.05	0.47
8500.00	1.73	40.56	8492.54	145.09	230.97	145.09	272.76	57.86	0.15
8600.00	1.46	41.98	8592.50	147.18	232.80	147.18	275.43	57.70	0.27



VAUGHN ENERGY SERVICES
CONWAY, ARKANSAS
501-730-0602
SURVEYOR: SLAYTON THOMAS
REGULUS 26 FEDERAL NO. 001H / API 30-015-40098



VES SURVEY DATE: 05/21/2012

Pathfinder

6213 WCR. 112
Midland, Texas. 79706-3725, USA
Tel. (432) 687-1647
Fax (432) 687-1544

PATHFINDER
A Schlumberger Company

June 4, 2012

Devon Energy
20 N. Broadway
Oklahoma City, OK



RE: Devon Energy
Regulus 26 Federal #1H
API: 30-015-40098
Eddy County, NM
RIG: H&P 300
FIELD: Lusk; Bone Spring (West)
PES FILE NO.: 12MLD0161

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,

A handwritten signature in black ink, appearing to read "M. Mitcham".

MARCUS MITCHAM
M/LWD Service Coordinator
PathFinder Energy Services

ML:sh

PATHFINDER[®]

A Schlumberger Company

DIRECTIONAL SURVEY REPORT

DEVON ENERGY

REGULUS 26 FEDERAL #1H

EDDY COUNTY, NEW MEXICO

RECEIVED

JAN 23 2013

NMOCD ARTES

PREPARED BY: MARCUS MITCHAM

Pathfinder

6213 WCR. 112
Midland, Texas. 79706-3725, USA
Tel. (432) 687-1647
Fax (432) 687-1544

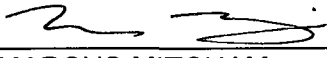


DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) ALEX CASTILLO
3. POSITION OF SAID PERSON(S): (A-F) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 23-MAY-12 TO 31-MAY-12
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: GAMMA-RAY
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY
REGULUS 26 FEDERAL #1H
EDDY COUNTY, NM
RIG: H&P 300
9. SURVEY CERTIFIED FROM: 8,735 TO 13,778 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4,613.02 FEET ON A BEARING OF 269.46 DEGREES FROM THE
CENTER OF THE ROTARY TABLE AT A PROJECTED BIT DEPTH OF 13,855 FEET,
ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



MARCUS MITCHAM
M/LWD SERVICE COORDINATOR

PathFinder Energy Services, Inc.

BHL Report

Page 01/01
Tie-in Date: 05/23/2012
Date Completed: 05/31/2012

DEVON ENERGY CORP.
REGULUS 26 FEDERAL #1H/ 30-015-40098
EDDY COUNTY, NM
Rig:H&P 300
PathFinder Office Supervisor: JUAN ALCOCER
PathFinder Field Engineers:A.CASTILLO
T.RODDIN

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.38.15.6596 N LON:103.49.56.7280 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 695529.8300 Y: 596083.5600
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.35° EAST TO GRID
Vertical Section Plane: 269.40
Survey Vert. Reference: 26.00' Rotary Table To Ground
Altitude:3498.30' Ground To MSL

Measured Depth	13855.00	(feet)
Inclination	90.04	(deg)
Azimuth	269.44	(deg)
True Vertical Depth	9156.06	(feet)
Vertical Section	4613.02	(feet)
Survey X cord	690917.01	(feet)
Survey Y cord	593040.01	(feet)
Survey Lat	32.62937654 N	(deg)
Survey Lon	103.84745439 W	(deg)
Rectangular Corr. N/S	43.55 S	(feet)
Rectangular Corr. E/W	4612.82 W	(feet)
Closure Distance	4613.02	(feet)
Direction of Closure	269.46	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.

REGULUS 26 FEDERAL #1H/ 30-015-40098

EDDY COUNTY, NM

Rig:H&P 300

PathFinder Office Supervisor: JUAN ALCOCER

PathFinder Field Engineers: A.CASTILLO

T.RODDIN

Survey Horiz. Reference:WELLHEAD

Ref Coordinates: LAT:32.38.15.6596 N LON:103.49.56.7280 W

GRID Reference:NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 695529.8300 Y: 596083.5600

North Aligned To:GRID NORTH

Total Magnetic Correction: 7.35° EAST TO GRID

Vertical Section Plane: 269.40

Survey Vert. Reference: 26.00' Rotary Table To Ground

Altitude:3498.30' 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	1.07	116.80	99.99	100.00	-0.83	0.42 S	0.84 E	0.94@	116.67	1.07
200.00	1.02	136.91	199.98	100.00	-2.26	1.49 S	2.28 E	2.72@	123.21	0.37
300.00	0.94	144.75	299.96	100.00	-3.33	2.81 S	3.36 E	4.38@	129.92	0.16
400.00	1.08	135.13	399.95	100.00	-4.45	4.15 S	4.50 E	6.12@	132.69	0.22
500.00	1.27	73.06	499.93	100.00	-6.18	4.49 S	6.22 E	7.68@	125.83	1.22
600.00	1.49	45.50	599.90	100.00	-8.18	3.26 S	8.21 E	8.83@	111.65	0.69
700.00	1.74	47.26	699.86	100.00	-10.24	1.32 S	10.25 E	10.34@	97.33	0.25
800.00	1.45	52.63	799.82	100.00	-12.38	0.48 N	12.37 E	12.38@	87.78	0.33
900.00	0.75	46.78	899.80	100.00	-13.87	1.70 N	13.86 E	13.96@	83.02	0.71
1000.00	0.76	72.72	999.80	100.00	-14.99	2.34 N	14.97 E	15.15@	81.11	0.34
1100.00	0.85	34.70	1099.79	100.00	-16.05	3.15 N	16.02 E	16.33@	78.88	0.53
1200.00	0.99	41.62	1199.77	100.00	-17.06	4.40 N	17.02 E	17.58@	75.49	0.18
1300.00	0.91	57.81	1299.76	100.00	-18.32	5.47 N	18.26 E	19.07@	73.32	0.28
1400.00	0.75	44.79	1399.75	100.00	-19.46	6.36 N	19.40 E	20.41@	71.85	0.25
1500.00	1.03	45.05	1499.74	100.00	-20.57	7.46 N	20.49 E	21.81@	70.00	0.28
1600.00	1.02	50.94	1599.72	100.00	-21.91	8.66 N	21.82 E	23.48@	68.36	0.11
1700.00	1.19	61.31	1699.70	100.00	-23.52	9.72 N	23.42 E	25.36@	67.47	0.26
1800.00	1.35	60.08	1799.68	100.00	-25.47	10.80 N	25.35 E	27.56@	66.93	0.16
1900.00	1.66	52.06	1899.64	100.00	-27.65	12.28 N	27.52 E	30.13@	65.95	0.37
2000.00	1.94	49.60	1999.59	100.00	-30.10	14.27 N	29.95 E	33.17@	64.53	0.29
2100.00	1.75	65.55	2099.54	100.00	-32.79	16.00 N	32.63 E	36.34@	63.88	0.54
2200.00	1.89	70.14	2199.49	100.00	-35.75	17.19 N	35.57 E	39.50@	64.21	0.20
2300.00	1.55	71.27	2299.45	100.00	-38.59	18.18 N	38.40 E	42.49@	64.66	0.34
2400.00	1.40	60.78	2399.41	100.00	-40.95	19.21 N	40.75 E	45.05@	64.76	0.31
2500.00	1.48	43.55	2499.38	100.00	-42.92	20.75 N	42.70 E	47.48@	64.09	0.44

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
REGULUS 26 FEDERAL #1H/ 30-015-40098
EDDY COUNTY, NM
RIG:H&P 300

Page 02/06

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)
2600.00	1.46	30.17	2599.35	100.00	-44.47	22.78 N	44.23 E	49.76@	62.75	0.34
2700.00	1.12	39.56	2699.33	100.00	-45.75	24.64 N	45.50 E	51.74@	61.56	0.40
2800.00	1.63	47.19	2799.30	100.00	-47.44	26.36 N	47.16 E	54.03@	60.80	0.54
2900.00	1.31	34.99	2899.26	100.00	-49.15	28.26 N	48.86 E	56.45@	59.96	0.45
3000.00	1.03	26.37	2999.24	100.00	-50.23	30.00 N	49.92 E	58.24@	58.99	0.33
3100.00	0.58	29.39	3099.23	100.00	-50.89	31.25 N	50.56 E	59.44@	58.28	0.45
3200.00	0.80	50.55	3199.23	100.00	-51.69	32.13 N	51.35 E	60.58@	57.96	0.33
3300.00	1.77	40.64	3299.20	100.00	-53.25	33.75 N	52.90 E	62.75@	57.46	0.99
3400.00	2.61	42.21	3399.12	100.00	-55.81	36.61 N	55.43 E	66.43@	56.56	0.84
3500.00	2.72	49.89	3499.02	100.00	-59.19	39.82 N	58.78 E	71.00@	55.88	0.37
3600.00	2.51	56.88	3598.91	100.00	-62.87	42.55 N	62.43 E	75.55@	55.72	0.38
3700.00	3.19	31.50	3698.79	100.00	-66.19	46.12 N	65.71 E	80.28@	54.94	1.42
3800.00	3.77	39.81	3798.61	100.00	-69.80	51.01 N	69.27 E	86.03@	53.63	0.77
3900.00	4.15	49.50	3898.37	100.00	-74.71	55.89 N	74.13 E	92.84@	52.99	0.77
4000.00	4.54	53.57	3998.08	100.00	-80.69	60.59 N	80.06 E	100.41@	52.88	0.50
4100.00	4.69	56.27	4097.76	100.00	-87.33	65.21 N	86.65 E	108.45@	53.04	0.26
4200.00	5.06	59.77	4197.40	100.00	-94.58	69.70 N	93.86 E	116.91@	53.40	0.48
4300.00	4.59	55.51	4297.04	100.00	-101.74	74.19 N	100.97 E	125.29@	53.69	0.59
4400.00	4.71	57.76	4396.71	100.00	-108.56	78.64 N	107.74 E	133.39@	53.87	0.22
4500.00	4.71	60.52	4496.38	100.00	-115.65	82.85 N	114.78 E	141.56@	54.18	0.23
4600.00	4.90	57.68	4596.03	100.00	-122.87	87.16 N	121.97 E	149.91@	54.45	0.30
4700.00	4.93	56.18	4695.66	100.00	-130.10	91.83 N	129.15 E	158.47@	54.58	0.13
4800.00	4.98	63.70	4795.29	100.00	-137.61	96.15 N	136.61 E	167.05@	54.86	0.65
4900.00	4.67	63.64	4894.93	100.00	-145.18	99.88 N	144.15 E	175.37@	55.28	0.31
5000.00	4.65	57.32	4994.60	100.00	-152.29	103.87 N	151.21 E	183.45@	55.51	0.51
5100.00	4.18	64.94	5094.30	100.00	-159.04	107.61 N	157.92 E	191.10@	55.73	0.75
5200.00	3.95	61.12	5194.05	100.00	-165.39	110.81 N	164.24 E	198.12@	55.99	0.35
5300.00	3.79	67.44	5293.83	100.00	-171.49	113.75 N	170.30 E	204.80@	56.26	0.46

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
REGULUS 26 FEDERAL #1H/ 30-015-40098
EDDY COUNTY, NM
RIG:H&P 300

Page 03/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
5400.00	3.55	60.76	5393.62	100.00	-177.27	116.53 N	176.06 E	211.13@	56.50	0.49
5500.00	3.20	53.13	5493.45	100.00	-182.24	119.71 N	180.99 E	217.00@	56.52	0.57
5600.00	2.99	71.04	5593.30	100.00	-186.96	122.23 N	185.69 E	222.31@	56.64	0.98
5700.00	2.63	66.40	5693.18	100.00	-191.55	124.00 N	190.26 E	227.10@	56.91	0.43
5800.00	2.48	72.39	5793.08	100.00	-195.73	125.57 N	194.43 E	231.45@	57.14	0.31
5900.00	2.00	72.11	5893.01	100.00	-199.46	126.76 N	198.15 E	235.23@	57.39	0.48
6000.00	1.96	63.87	5992.95	100.00	-202.67	128.05 N	201.34 E	238.62@	57.54	0.29
6100.00	1.78	77.01	6092.90	100.00	-205.73	129.16 N	204.39 E	241.78@	57.71	0.46
6200.00	1.85	73.58	6192.85	100.00	-208.80	129.96 N	207.45 E	244.80@	57.93	0.13
6300.00	1.50	70.38	6292.80	100.00	-211.59	130.86 N	210.24 E	247.63@	58.10	0.36
6400.00	1.32	67.54	6392.77	100.00	-213.90	131.74 N	212.53 E	250.05@	58.21	0.19
6500.00	1.04	81.04	6492.75	100.00	-215.87	132.32 N	214.49 E	252.02@	58.33	0.39
6600.00	1.01	69.11	6592.74	100.00	-217.59	132.77 N	216.21 E	253.73@	58.45	0.21
6700.00	0.54	83.39	6692.73	100.00	-218.89	133.14 N	217.51 E	255.02@	58.53	0.50
6800.00	0.60	69.09	6792.72	100.00	-219.85	133.38 N	218.46 E	255.96@	58.59	0.15
6900.00	0.37	29.61	6892.72	100.00	-220.50	133.85 N	219.11 E	256.76@	58.58	0.39
7000.00	0.18	332.71	6992.72	100.00	-220.59	134.27 N	219.20 E	257.05@	58.51	0.31
7100.00	0.53	8.10	7092.71	100.00	-220.59	134.87 N	219.19 E	257.36@	58.40	0.40
7200.00	0.35	357.95	7192.71	100.00	-220.65	135.63 N	219.25 E	257.81@	58.26	0.20
7300.00	0.34	18.04	7292.71	100.00	-220.74	136.22 N	219.33 E	258.19@	58.16	0.12
7400.00	0.68	5.69	7392.71	100.00	-220.90	137.09 N	219.48 E	258.78@	58.01	0.35
7500.00	0.45	351.39	7492.70	100.00	-220.91	138.07 N	219.48 E	259.29@	57.83	0.27
7600.00	0.25	311.92	7592.70	100.00	-220.70	138.60 N	219.26 E	259.39@	57.70	0.30
7700.00	0.06	90.64	7692.70	100.00	-220.59	138.75 N	219.15 E	259.38@	57.66	0.30
7800.00	0.18	102.99	7792.70	100.00	-220.79	138.71 N	219.35 E	259.53@	57.69	0.12
7900.00	0.70	86.93	7892.69	100.00	-221.56	138.71 N	220.12 E	260.18@	57.78	0.53
8000.00	0.89	81.06	7992.69	100.00	-222.93	138.86 N	221.49 E	261.42@	57.91	0.21
8100.00	1.06	71.41	8092.67	100.00	-224.58	139.28 N	223.14 E	263.04@	58.03	0.24

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
 REGULUS 26 FEDERAL #1H/ 30-015-40098
 EDDY COUNTY, NM
 RIG:H&P 300

Page 04/06

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)
8200.00	0.93	72.86	8192.66	100.00	-226.24	139.81 N	224.79 E	264.72@	58.12	0.13
8300.00	1.57	55.49	8292.63	100.00	-228.16	140.83 N	226.69 E	266.88@	58.15	0.74
8400.00	1.86	42.99	8392.59	100.00	-230.41	142.79 N	228.93 E	269.81@	58.05	0.47
8500.00	1.73	40.56	8492.54	100.00	-232.52	145.13 N	231.02 E	272.82@	57.86	0.15
** TIED INTO VAUGHN ENERGY SERVICE GYRO SURVEY @ 8600.00'MD.										
8600.00	1.46	41.98	8592.50	100.00	-234.38	147.22 N	232.85 E	275.49@	57.70	0.27
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
8735.00	12.84	261.07	8726.46	135.00	-220.63	146.16 N	219.11 E	263.39@	56.29	10.37
8766.00	14.95	262.42	8756.55	31.00	-213.25	145.10 N	211.75 E	256.69@	55.58	6.89
8798.00	16.62	253.71	8787.35	32.00	-204.75	143.27 N	203.26 E	248.68@	54.82	9.04
8829.00	19.26	253.59	8816.84	31.00	-195.56	140.59 N	194.10 E	239.66@	54.08	8.52
8861.00	21.72	253.67	8846.81	32.00	-184.78	137.43 N	183.35 E	229.14@	53.15	7.69
8892.00	24.18	253.93	8875.35	31.00	-173.14	134.06 N	171.74 E	217.87@	52.03	7.94
8924.00	25.85	254.43	8904.35	32.00	-160.08	130.37 N	158.73 E	205.40@	50.60	5.26
8955.00	28.05	255.07	8931.98	31.00	-146.49	126.68 N	145.17 E	192.67@	48.89	7.16
8987.00	31.04	254.24	8959.82	32.00	-131.23	122.50 N	129.96 E	178.59@	46.69	9.43
9018.00	34.47	254.50	8985.88	31.00	-115.04	117.98 N	113.81 E	163.93@	43.97	11.07
9050.00	36.67	254.85	9011.91	32.00	-97.03	113.06 N	95.86 E	148.23@	40.29	6.91
9082.00	38.69	255.29	9037.24	32.00	-78.08	108.03 N	76.96 E	132.64@	35.47	6.37
9113.00	40.80	255.47	9061.07	31.00	-58.85	103.03 N	57.78 E	118.12@	29.28	6.82
9145.00	43.70	254.94	9084.76	32.00	-38.00	97.53 N	36.98 E	104.30@	20.76	9.13
9176.00	46.96	255.82	9106.55	31.00	-16.61	91.97 N	15.65 E	93.29@	9.66	10.71
9208.00	50.56	256.87	9127.64	32.00	6.83	86.30 N	7.73 W	86.64@	354.88	11.52
9239.00	53.20	257.66	9146.77	31.00	30.67	80.92 N	31.52 W	86.84@	338.72	8.75
9271.00	56.72	257.75	9165.14	32.00	56.32	75.35 N	57.11 W	94.54@	322.84	11.00
9302.00	60.23	257.40	9181.35	31.00	82.18	69.66 N	82.91 W	108.29@	310.04	11.36
9334.00	64.19	258.01	9196.27	32.00	109.90	63.63 N	110.57 W	127.57@	299.92	12.49
9367.00	67.71	258.19	9209.71	33.00	139.44	57.42 N	140.05 W	151.37@	292.29	10.68

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
REGULUS 26 FEDERAL #1H/ 30-015-40098
EDDY COUNTY, NM
RIG:H&P 300

Page 05/06

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)
9399.00	71.40	259.16	9220.89	32.00	168.90	51.54 N	169.45 W	177.11@	286.92	11.88
9430.00	74.57	259.68	9229.96	31.00	198.09	46.10 N	198.58 W	203.86@	283.07	10.35
9462.00	78.52	259.77	9237.40	32.00	228.76	40.55 N	229.20 W	232.76@	280.03	12.35
9493.00	82.22	259.24	9242.59	31.00	258.86	34.98 N	259.25 W	261.59@	277.68	12.05
9524.00	86.09	258.45	9245.75	31.00	289.18	29.02 N	289.50 W	290.95@	275.72	12.74
9556.00	89.60	258.37	9246.95	32.00	320.56	22.59 N	320.82 W	321.61@	274.03	10.97
9618.00	89.43	259.07	9247.47	62.00	381.49	10.46 N	381.62 W	381.76@	271.57	1.16
9713.00	89.08	260.30	9248.71	95.00	475.11	6.54 S	475.07 W	475.12@	269.21	1.35
9807.00	89.60	262.06	9249.79	94.00	568.14	20.96 S	567.95 W	568.34@	267.89	1.95
9902.00	90.84	263.82	9249.43	95.00	662.53	32.63 S	662.22 W	663.03@	267.18	2.27
9996.00	92.33	266.54	9246.83	94.00	756.23	40.53 S	755.84 W	756.93@	266.93	3.30
10091.00	92.33	267.95	9242.96	95.00	851.08	45.09 S	850.65 W	851.85@	266.97	1.48
10185.00	91.45	269.26	9239.86	94.00	945.01	47.38 S	944.57 W	945.76@	267.13	1.68
10280.00	91.45	270.32	9237.46	95.00	1039.98	47.72 S	1039.54 W	1040.63@	267.37	1.12
10375.00	91.28	270.23	9235.20	95.00	1134.94	47.27 S	1134.51 W	1135.49@	267.61	0.20
10469.00	92.33	270.32	9232.23	94.00	1228.88	46.82 S	1228.46 W	1229.35@	267.82	1.12
10564.00	91.54	271.02	9229.03	95.00	1323.80	45.71 S	1323.40 W	1324.19@	268.02	1.11
10658.00	90.48	270.58	9227.37	94.00	1417.76	44.39 S	1417.37 W	1418.07@	268.21	1.22
10753.00	91.54	270.93	9225.70	95.00	1512.72	43.14 S	1512.35 W	1512.96@	268.37	1.18
10847.00	91.63	271.29	9223.10	94.00	1606.64	41.32 S	1606.29 W	1606.83@	268.53	0.39
10942.00	91.36	271.81	9220.62	95.00	1701.54	38.75 S	1701.23 W	1701.67@	268.70	0.62
11036.00	91.71	270.14	9218.10	94.00	1795.47	37.15 S	1795.18 W	1795.56@	268.81	1.81
11131.00	91.89	269.62	9215.12	95.00	1890.42	37.35 S	1890.13 W	1890.50@	268.87	0.58
11225.00	92.33	270.23	9211.65	94.00	1984.35	37.48 S	1984.06 W	1984.42@	268.92	0.80
11320.00	91.98	270.14	9208.08	95.00	2079.27	37.17 S	2079.00 W	2079.33@	268.98	0.38
11415.00	91.80	270.49	9204.95	95.00	2174.21	36.65 S	2173.94 W	2174.25@	269.03	0.41
11509.00	91.89	270.67	9201.92	94.00	2268.14	35.70 S	2267.89 W	2268.17@	269.10	0.21
11604.00	91.28	268.82	9199.29	95.00	2363.10	36.12 S	2362.85 W	2363.12@	269.12	2.05

PathFinder Energy Services, Inc.

Survey Report

DEVON ENERGY CORP.
REGULUS 26 FEDERAL #1H/ 30-015-40098
EDDY COUNTY, NM
RIG:H&P 300

Page 06/06

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)
11698.00	90.75	268.65	9197.63	94.00	2457.07	38.19 S	2456.81 W	2457.11@	269.11	0.59
11793.00	89.78	268.65	9197.19	95.00	2552.06	40.43 S	2551.78 W	2552.10@	269.09	1.02
11887.00	90.40	268.30	9197.04	94.00	2646.05	42.93 S	2645.75 W	2646.10@	269.07	0.76
11982.00	91.98	268.74	9195.07	95.00	2741.02	45.39 S	2740.69 W	2741.07@	269.05	1.73
12077.00	92.51	268.91	9191.35	95.00	2835.94	47.33 S	2835.60 W	2835.99@	269.04	0.59
12171.00	92.07	269.26	9187.59	94.00	2929.86	48.83 S	2929.51 W	2929.92@	269.04	0.60
12266.00	91.89	269.97	9184.31	95.00	3024.80	49.47 S	3024.45 W	3024.86@	269.06	0.77
12360.00	91.45	270.32	9181.57	94.00	3118.76	49.23 S	3118.41 W	3118.80@	269.10	0.60
12455.00	90.31	270.49	9180.11	95.00	3213.73	48.56 S	3213.40 W	3213.76@	269.13	1.21
12549.00	89.43	270.76	9180.32	94.00	3307.71	47.54 S	3307.39 W	3307.73@	269.18	0.98
12644.00	90.48	269.88	9180.40	95.00	3402.69	47.01 S	3402.39 W	3402.71@	269.21	1.44
12738.00	91.63	269.88	9178.67	94.00	3496.67	47.20 S	3496.37 W	3496.69@	269.23	1.22
12833.00	91.45	269.62	9176.12	95.00	3591.63	47.62 S	3591.33 W	3591.65@	269.24	0.33
12927.00	92.51	269.97	9172.87	94.00	3685.57	47.95 S	3685.27 W	3685.59@	269.25	1.19
13022.00	92.51	270.76	9168.71	95.00	3780.47	47.35 S	3780.18 W	3780.48@	269.28	0.83
13116.00	92.15	271.37	9164.89	94.00	3874.35	45.60 S	3874.09 W	3874.35@	269.33	0.75
13211.00	92.24	271.64	9161.25	95.00	3969.22	43.11 S	3968.98 W	3969.22@	269.38	0.30
13305.00	91.54	271.90	9158.15	94.00	4063.08	40.21 S	4062.89 W	4063.09@	269.43	0.79
13400.00	90.13	270.14	9156.76	95.00	4158.03	38.52 S	4157.86 W	4158.03@	269.47	2.37
13494.00	89.52	269.09	9157.05	94.00	4252.03	39.15 S	4251.85 W	4252.03@	269.47	1.29
13589.00	90.22	269.18	9157.26	95.00	4347.03	40.58 S	4346.84 W	4347.03@	269.47	0.74
13683.00	90.57	269.35	9156.62	94.00	4441.02	41.79 S	4440.83 W	4441.03@	269.46	0.41
13778.00	90.04	269.44	9156.11	95.00	4536.02	42.79 S	4535.82 W	4536.02@	269.46	0.57
STRAIGHT LINE PROJECTION TO BIT @ 13855.00'MD.										
13855.00	90.04	269.44	9156.06	77.00	4613.02	43.55 S	4612.82 W	4613.02@	269.46	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.



A Schlumberger Company

TIE-IN SURVEY INFORMATION SHEET

CLIENT INFORMATION

CLIENT:	DEVON ENERGY CORP.		
LEASE / WELL No.:	REGULUS 26 FEDERAL	1H	
WELL LOCATION:	EDDY COUNTY, NEW MEXICO		
COUNTY / STATE / COUNTRY:	EDDY	NM	USA
RIG:	H&P 300		
API WELL No:	30-015-40098		
JOB No:	12MLD0161		
P.O. / AFE No.	202417		
DIRECTIONAL COMPANY:	PATHFINDER		

WELL SITE INFORMATION

TOTAL MAGNETIC CORRECTION (TMC):			
On Wall Plat:	7.4	LWD Calculated:	7.35317
		Agreed Upon:	7.35
X =	695529.830000	Feet	Y = 596083.560000
			Feet
SITE LATITUDE:	32.637683 N	SITE LONGITUDE:	103.832424 W
GRID SYSTEM:	TRUE ☐ UTM ☐ LAMBERT ☒	ZONE:	New Mexico East
PROPOSED DRIFT DIRECTION:	269.40		
KELLY BUSHING ELEVATION:	26 Feet		
ALTITUDE:	3498.3	Feet	RIG HEIGHT: 26 Feet

TIE-IN SURVEY

MEASURED DEPTH:	8600		
DRIFT ANGLE:	1.46		
DRIFT DIRECTION:	41.98		
TRUE VERTICAL DEPTH:	8592.5		
VERTICAL SECTION:	147.18		
RECTANGULAR COORDINATE (N / S):	147.18		
RECTANGULAR COORDINATE (E / W):	232.8		
CLOSURE DISTANCE / DIRECTION:	275.43	57.7	
SURVEY CALCULATION METHOD:	AA ☐	MC ☒	RC ☐ BT ☐
SOURCE OF TIE-IN DATA (COMPANY):	Vaughn Energy Service		
COPY OF TIE-IN SURVEY REPORT	☒ YES ☐ NO		

WELL PLAN

KICKOFF DEPTH:	8562	TOTAL DEPTH:	13501.3
KICKOFF ANGLE:	0°	MAX ANGLE:	90.28

PES Engineers: ALEX CASTILLO

TOM RODDIN

**Signature of both field engineers required if applicable

Directional Driller: JORDAN WILLIAMS

DATE: 20-May-2012



Company: DEVON
Rig: H&P #300
Latitude: 32.638
Longitude: -103.833
API # 30-015-40098
Date: 5/21/12

Well: REGULUS 26 FED 1H
Location:
North Reference: GC = -.27
Depth Reference: RKB = 25'
Surveyor: SLAYTON THOMAS
VS: 0.000

Field copy only not definitive.

Depth	Inc	AzG	N/S	E/W	TVD	DL	VS	CD	Cbrg
0	0	0	0	0	0 ****		0	0	0
100	1.07	116.80	-0.42	0.84	99.99	1.07	-0.42	0.94	116.80
200	1.02	136.91	-1.50	2.28	199.98	0.37	-1.50	2.73	123.26
300	0.94	144.75	-2.82	3.37	299.96	0.16	-2.82	4.39	129.95
400	1.08	135.13	-4.16	4.50	399.95	0.22	-4.16	6.13	132.70
500	1.27	73.06	-4.50	6.22	499.93	1.22	-4.50	7.68	125.86
600	1.49	45.50	-3.26	8.21	599.90	0.69	-3.26	8.84	111.66
700	1.74	47.26	-1.32	10.25	699.86	0.25	-1.32	10.34	97.33
800	1.45	52.63	0.48	12.37	799.82	0.33	0.48	12.38	87.80
900	0.75	46.78	1.69	13.85	899.80	0.71	1.69	13.95	83.05
1000	0.76	72.72	2.33	14.96	999.80	0.34	2.33	15.14	81.14
1100	0.85	34.70	3.14	16.02	1099.79	0.53	3.14	16.32	78.91
1200	0.99	41.62	4.39	17.01	1199.77	0.18	4.39	17.57	75.52
1300	0.91	57.81	5.46	18.26	1299.76	0.28	5.46	19.06	73.35
1400	0.75	44.79	6.35	19.39	1399.75	0.24	6.35	20.41	71.86
1500	1.03	45.05	7.46	20.50	1499.74	0.28	7.46	21.81	70.01
1600	1.02	50.94	8.65	21.82	1599.72	0.11	8.65	23.48	68.37
1700	1.19	61.31	9.71	23.43	1699.70	0.26	9.71	25.36	67.48
1800	1.35	60.08	10.80	25.36	1799.68	0.16	10.80	27.56	66.93
1900	1.66	52.06	12.28	27.52	1899.64	0.38	12.28	30.14	65.95
2000	1.94	49.60	14.27	29.96	1999.59	0.29	14.27	33.19	64.53
2100	1.75	65.55	16.00	32.64	2099.54	0.55	16.00	36.35	63.88
2200	1.89	70.14	17.19	35.58	2199.49	0.20	17.19	39.51	64.21
2300	1.55	71.27	18.19	38.40	2299.45	0.34	18.19	42.49	64.66
2400	1.40	60.78	19.22	40.75	2399.42	0.31	19.22	45.05	64.75
2500	1.48	43.55	20.75	42.70	2499.38	0.44	20.75	47.48	64.09
2600	1.46	30.17	22.79	44.23	2599.35	0.34	22.79	49.76	62.75
2700	1.12	39.56	24.64	45.49	2699.33	0.40	24.64	51.74	61.56
2800	1.63	47.19	26.36	47.16	2799.30	0.55	26.36	54.02	60.80
2900	1.31	34.99	28.26	48.86	2899.26	0.45	28.26	56.44	59.95
3000	1.03	26.37	30.00	49.91	2999.24	0.33	30.00	58.23	58.99
3100	0.58	29.39	31.24	50.56	3099.23	0.45	31.24	59.43	58.29
3200	0.80	50.55	32.12	51.34	3199.23	0.34	32.12	60.56	57.97
3300	1.77	40.64	33.74	52.89	3299.20	0.99	33.74	62.73	57.46
3400	2.61	42.21	36.60	55.42	3399.13	0.84	36.60	66.42	56.56
3500	2.72	49.89	39.81	58.76	3499.02	0.37	39.81	70.98	55.88
3600	2.51	56.88	42.53	62.41	3598.91	0.38	42.53	75.53	55.73
3700	3.19	31.50	46.11	65.71	3698.79	1.42	46.11	80.27	54.94

3800	3.77	39.81	51.01	69.27	3798.61	0.77	51.01	86.02	53.63
3900	4.15	49.50	55.88	74.13	3898.37	0.77	55.88	92.83	52.99
4000	4.54	53.57	60.59	80.07	3998.08	0.50	60.59	100.41	52.88
4100	4.69	56.27	65.21	86.65	4097.76	0.26	65.21	108.45	53.04
4200	5.06	59.77	69.70	93.85	4197.40	0.47	69.70	116.90	53.40
4300	4.59	55.51	74.18	100.96	4297.04	0.59	74.18	125.28	53.69
4400	4.71	57.76	78.63	107.73	4396.72	0.22	78.63	133.37	53.87
4500	4.71	60.52	82.85	114.78	4496.38	0.23	82.85	141.55	54.18
4600	4.90	57.68	87.15	121.96	4596.03	0.31	87.15	149.89	54.45
4700	4.93	56.18	91.82	129.13	4695.66	0.13	91.82	158.45	54.58
4800	4.98	63.70	96.14	136.60	4795.29	0.65	96.14	167.03	54.86
4900	4.67	63.64	99.87	144.14	4894.93	0.31	99.87	175.35	55.28
5000	4.65	57.32	103.86	151.20	4994.60	0.51	103.86	183.43	55.51
5100	4.18	64.94	107.60	157.91	5094.31	0.75	107.60	191.09	55.73
5200	3.95	61.12	110.81	164.24	5194.05	0.36	110.81	198.12	55.99
5300	3.79	67.44	113.74	170.30	5293.83	0.46	113.74	204.79	56.26
5400	3.55	60.76	116.52	176.05	5393.62	0.49	116.52	211.11	56.50
5500	3.20	53.13	119.70	180.98	5493.45	0.57	119.70	216.98	56.52
5600	2.99	71.04	122.22	185.68	5593.31	0.98	122.22	222.29	56.65
5700	2.63	66.40	123.99	190.25	5693.19	0.43	123.99	227.09	56.91
5800	2.48	72.39	125.56	194.41	5793.09	0.31	125.56	231.44	57.14
5900	2.00	72.11	126.75	198.13	5893.01	0.48	126.75	235.21	57.39
6000	1.96	63.87	128.04	201.32	5992.95	0.29	128.04	238.59	57.54
6100	1.78	77.01	129.14	204.37	6092.90	0.46	129.14	241.75	57.71
6200	1.85	73.58	129.94	207.43	6192.85	0.13	129.94	244.77	57.94
6300	1.50	70.38	130.84	210.22	6292.80	0.36	130.84	247.61	58.10
6400	1.32	67.54	131.72	212.51	6392.77	0.20	131.72	250.02	58.21
6500	1.04	81.04	132.30	214.48	6492.75	0.39	132.30	252.00	58.33
6600	1.01	69.11	132.76	216.20	6592.74	0.22	132.76	253.70	58.45
6700	0.54	83.39	133.12	217.49	6692.73	0.51	133.12	254.99	58.53
6800	0.60	69.09	133.36	218.44	6792.72	0.15	133.36	255.93	58.59
6900	0.37	29.61	133.83	219.09	6892.72	0.39	133.83	256.73	58.58
7000	0.18	332.71	134.25	219.17	6992.72	0.31	134.25	257.02	58.51
7100	0.53	8.10	134.85	219.17	7092.72	0.40	134.85	257.33	58.40
7200	0.35	357.95	135.61	219.22	7192.71	0.20	135.61	257.78	58.26
7300	0.34	18.04	136.19	219.30	7292.71	0.12	136.19	258.15	58.16
7400	0.68	5.69	137.06	219.45	7392.71	0.36	137.06	258.74	58.01
7500	0.45	351.39	138.04	219.45	7492.70	0.26	138.04	259.26	57.83
7600	0.25	311.92	138.58	219.23	7592.70	0.31	138.58	259.35	57.70
7700	0.06	90.64	138.72	219.12	7692.70	0.30	138.72	259.34	57.66
7800	0.18	102.99	138.69	219.32	7792.70	0.13	138.69	259.49	57.69
7900	0.70	86.93	138.68	220.09	7892.70	0.53	138.68	260.14	57.78
8000	0.89	81.06	138.84	221.46	7992.69	0.21	138.84	261.38	57.92
8100	1.06	71.41	139.25	223.10	8092.67	0.23	139.25	262.99	58.03
8200	0.93	72.86	139.78	224.75	8192.66	0.13	139.78	264.67	58.12
8300	1.57	55.49	140.79	226.65	8292.63	0.74	140.79	266.82	58.15
8400	1.86	42.99	142.76	228.88	8392.59	0.47	142.76	269.75	58.05

8500	1.73	40.56	145.09	230.97	8492.54	0.15	145.09	272.76	57.86
8600	1.46	41.98	147.18	232.80	8592.50	0.27	147.18	275.43	57.70
			147.22	232.85					



A Schlumberger Company

PathFinder Energy Services, Inc. Magnetic & Grid Calculations

Devon Energy
Regulus 26 Federal #1H
Eddy County, Nm
Rig:HP 300

Thu May 10 17:39:57 2012

Coordinates

Latitude: 32.637683 N (32 deg. 38 min. 15.6596 sec.)
Longitude: 103.832424 W (-103 deg. 49 min. 56.7280 sec.)
Elevation: 3524.30 feet.
Calculation Date: May/10/2012

Magnetic Calculations

Model: IGRF2010
Dip Angle: 60.5027 degrees
Total Magnetic Field: 0.48746 gauss
Magnetic Declination: 7.626698 degrees
Horizontal Intensity: 0.240017 gauss

To Convert a Magnetic Dir. to a TRUE North Dir. Add 7.626698 Degr

Transverse Mercator Grid Calculations NAD83

Grid System: Transverse Mercator: new mexico east
Ellipsoid: GRS80
X: 695529.8300 feet
Y: 596083.5600 feet
True to Grid: (convergence) -0.270158 degrees
Magnetic to Grid: 7.356540 degrees

To Convert a Magnetic Dir. to a GRID dir. Add 7.356540 Degr.