



January 9, 2015

3001542489

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

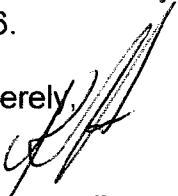
Attn: David Cook

Re: **Regulus 26 Fed 5H**

Please find enclosed a copy of the survey from 0' to 4446' 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

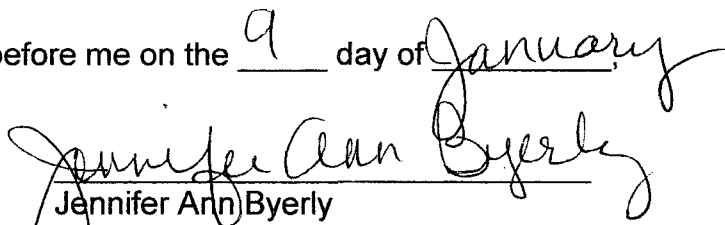
NM OIL CONSERVATION
ARTESIA DISTRICT

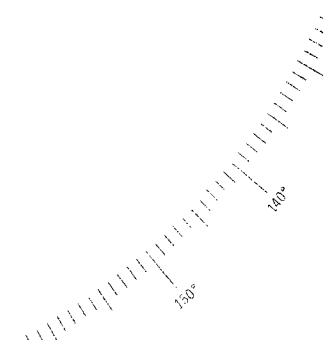
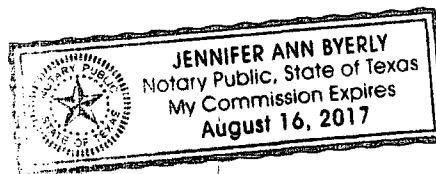
MAR 25 2015

STATE OF TEXAS §
 §
COUNTY OF NUECES §

RECEIVED

This instrument was acknowledged before me on the 9 day of January
A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Devon Energy

Lease/Well: Regulus 26 Fed /5H

Location: Sec 26 T19S R31E

Rig Name: H&P 267

State/County: New Mexico/Eddy

Latitude: 32.64, Longitude: -103.83

GRID North is 0.27 Degrees East of True North

VS-Azi: 0.00 Degrees



NM OIL CONSERVATION

Depth Reference : RKB= 25 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro_run01-01-de_01.ut

Minimum Curvature Method

Report Date/Time: 1/9/2015 / 13:27

VES Survey International

West Texas

(432) 563-5444

Surveyor: Chris Bankson

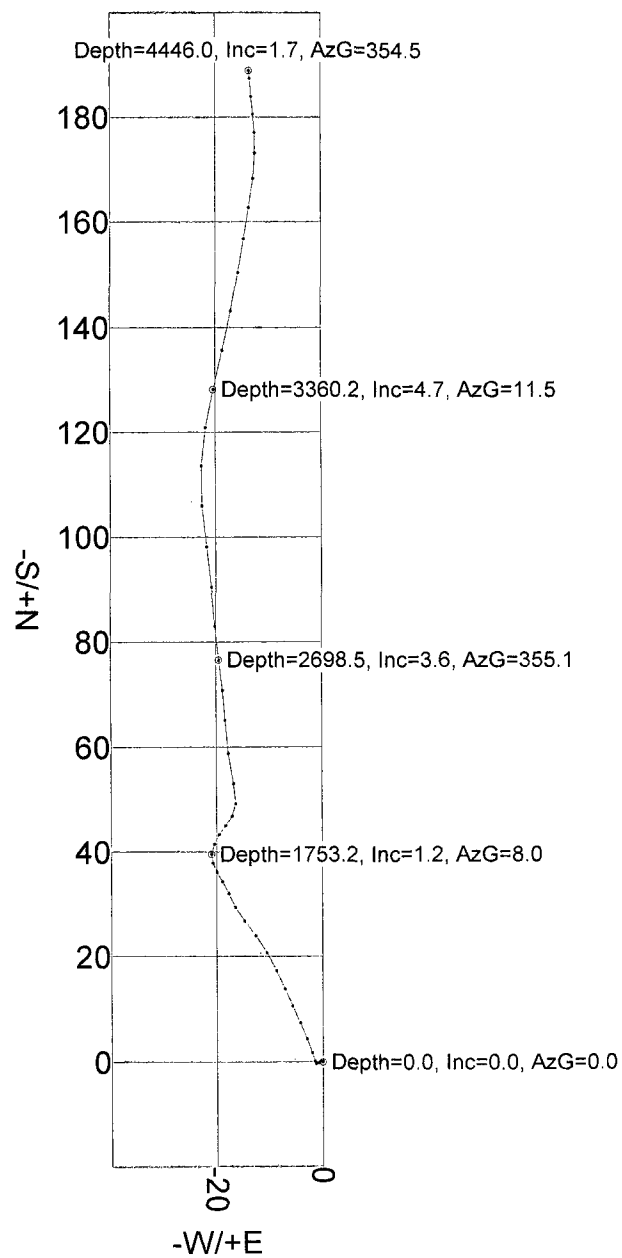
Regulus 26 Fed 5H / API 30-015-42489

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	****
51.62	0.39	259.49	51.62	-0.03	-0.17	-0.03	0.18	259.49	0.75
146.15	0.43	253.58	146.15	-0.19	-0.83	-0.19	0.85	257.03	0.06
240.68	0.19	247.01	240.68	-0.35	-1.31	-0.35	1.35	254.99	0.26
335.21	0.68	349.83	335.20	0.14	-1.55	0.14	1.56	275.13	0.78
429.74	1.42	339.01	429.72	1.78	-2.07	1.78	2.73	310.75	0.81
524.27	1.91	339.67	524.21	4.35	-3.03	4.35	5.30	325.11	0.52
618.80	2.11	336.07	618.68	7.42	-4.29	7.42	8.57	329.98	0.25
713.33	2.16	334.41	713.14	10.61	-5.76	10.61	12.08	331.51	0.08
807.86	2.18	337.13	807.61	13.88	-7.23	13.88	15.65	332.48	0.11
902.39	2.39	334.10	902.06	17.32	-8.79	17.32	19.42	333.08	0.26
996.92	2.36	330.12	996.51	20.78	-10.62	20.78	23.33	332.92	0.18
1091.45	2.29	324.93	1090.96	24.01	-12.68	24.01	27.15	332.16	0.23
1185.98	1.98	320.74	1185.43	26.82	-14.80	26.82	30.63	331.11	0.37
1280.51	1.81	331.27	1279.90	29.39	-16.54	29.39	33.72	330.62	0.41
1375.04	1.73	339.02	1374.39	32.03	-17.77	32.03	36.63	330.98	0.26
1469.57	1.38	325.21	1468.88	34.30	-18.94	34.30	39.18	331.10	0.54
1564.10	1.16	335.83	1563.39	36.11	-19.98	36.11	41.27	331.05	0.34
1658.63	1.10	335.37	1657.90	37.81	-20.75	37.81	43.13	331.24	0.07

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
1753.16	1.20	8.00	1752.41	39.61	-20.99	39.61	44.83	332.08	0.69
1847.69	1.21	21.14	1846.92	41.52	-20.49	41.52	46.30	333.73	0.29
1942.22	1.29	33.65	1941.43	43.34	-19.54	43.34	47.54	335.73	0.30
2036.75	1.28	38.98	2035.94	45.05	-18.28	45.05	48.62	337.91	0.13
2131.28	1.36	28.60	2130.44	46.86	-17.08	46.86	49.87	339.97	0.26
2225.81	1.69	5.88	2224.94	49.22	-16.41	49.22	51.88	341.57	0.72
2320.34	3.00	348.02	2319.39	53.02	-16.78	53.02	55.61	342.44	1.57
2414.87	4.18	351.98	2413.73	58.85	-17.77	58.85	61.47	343.20	1.27
2509.40	3.60	358.85	2508.05	65.23	-18.31	65.23	67.75	344.32	0.78
2603.93	3.33	351.14	2602.40	70.91	-18.79	70.91	73.35	345.16	0.57
2698.46	3.64	355.05	2696.76	76.61	-19.47	76.61	79.05	345.74	0.41
2792.99	4.33	352.27	2791.06	83.14	-20.21	83.14	85.56	346.34	0.76
2887.52	4.64	357.07	2885.30	90.49	-20.89	90.49	92.87	347.00	0.51
2982.05	4.86	350.34	2979.51	98.25	-21.75	98.25	100.63	347.52	0.63
3076.58	4.67	357.51	3073.71	106.04	-22.59	106.04	108.42	347.97	0.66
3171.11	4.60	1.03	3167.93	113.67	-22.69	113.67	115.92	348.71	0.31
3265.64	4.35	11.58	3262.18	120.98	-21.90	120.98	122.94	349.74	0.91
3360.17	4.67	11.49	3356.41	128.26	-20.42	128.26	129.87	350.95	0.34
3454.70	4.65	15.12	3450.63	135.73	-18.65	135.73	137.00	352.17	0.31
3549.23	4.62	9.11	3544.85	143.19	-17.05	143.19	144.20	353.21	0.51
3643.76	4.30	10.92	3639.10	150.43	-15.78	150.43	151.25	354.01	0.37
3738.29	3.61	8.88	3733.40	156.85	-14.65	156.85	157.53	354.67	0.75
3832.82	3.65	9.54	3827.74	162.75	-13.69	162.75	163.33	355.19	0.07
3927.35	3.23	7.91	3922.10	168.36	-12.82	168.36	168.85	355.65	0.45
4021.88	2.64	359.10	4016.51	173.18	-12.49	173.18	173.63	355.88	0.79
4116.41	2.15	358.67	4110.95	177.13	-12.56	177.13	177.57	355.94	0.52
4210.94	2.12	352.29	4205.42	180.63	-12.84	180.63	181.09	355.93	0.25
4305.47	1.99	356.47	4299.89	184.00	-13.17	184.00	184.47	355.90	0.20
4400.00	2.14	353.75	4394.36	187.40	-13.47	187.40	187.88	355.89	0.18
4446.00	1.69	354.52	4440.33	188.93	-13.63	188.93	189.42	355.87	0.98



VES Survey International
West Texas
(432) 563-5444
Surveyor: Chris Bankson
Regulus 26 Fed 5H / API 30-015-42489



3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988

PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.

REGULUS 26 FED 5H

EDDY COUNTY, NEW MEXICO

PREPARED BY: MARK TRAHAN

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988



January 14, 2015

DEVON ENERGY PRODUCTION CO., L.P.
Ms. Judith Barnett
333 W. Sheridan Ave.
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
REGULUS 26 FED 5H
EDDY COUNTY, NM
RIG: H&P 267
API NO.: 30-015-42489-00-X1
FILE NO.: 14LAF0356

Dear Ms. Barnett:

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
3 – Original Directional Survey Reports

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 (337) 233-3982.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Trahan".

Mark Trahan
M/LWD Service Coordinator
PathFinder, a Schlumberger company

MT:tb

DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) JOEY THIBODEAUX
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 12/23/14 TO 01/03/15
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: EDDY COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
REGULUS 26 FED 5H
EDDY COUNTY, NM
RIG: H&P 267
API NO.: 30-015-42489-00-X1

9. SURVEY CERTIFIED FROM: 4,446 TO 12,907 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE
DISPLACED AT 4,345.33 FEET ON A BEARING OF 270.45 DEGREES FROM THE CENTER
OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 12,907 FEET, ARE TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE.



MARK TRAHAN
M/LWD SERVICE COORDINATOR

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
Tel. 337-233-3982
Fax 337-234-2988



STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Joey Thibodeaux**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **12/23/14** through **01/03/15** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **4,446 feet to a depth of 12,907 feet**; that the data is true, correct, complete and within the limitations of the tool as set forth by PathFinder, a Schlumberger company; that I am authorized and qualified to make this report; that this survey was conducted at the request of **DEVON ENERGY PRODUCTION CO., L.P.** for the **Regulus 26 Fed #5H** Well API No. **30-015-42489-00-X1** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by PathFinder, a Schlumberger company.



PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 12/23/2014
Date Completed: 01/03/2015

DEVON ENERGY PRODUCTION CO LP
REGULUS 26 FED #5H
EDDY COUNTY, NM
API#: 30-015-42489-00-X1 Rig: H&P 267
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: JOEY THIBODEAUX

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.38.14.6980 N LON: 103.50.0.6649 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 695193.6500 Y: 595984.7900
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.04° EAST TO GRID
Vertical Section Plane: 270.69
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude: 3494.00' Ground To MSL

Measured Depth	12907.00	(feet)
Inclination	90.40	(deg)
Azimuth	265.61	(deg)
True Vertical Depth	8348.03	(feet)
Vertical Section	4345.29	(feet)
Survey X cord	690848.45	(feet)
Survey Y cord	596018.66	(feet)
Survey Lat	32.63756459 N	(deg)
Survey Lon	103.84763284 W	(deg)
Rectangular Corr. N/S	33.87 N	(feet)
Rectangular Corr. E/W	4345.20 W	(feet)
Closure Distance	4345.33	(feet)
Direction of Closure	270.45	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO LP
REGULUS 26 FED #5H
EDDY COUNTY, NM
API#: 30-015-42489-00-X1 Rig: H&P 267
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: JOEY THIBODEAUX

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.38.14.6980 N LON: 103.50.0.6649 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 695193.6500 Y: 595984.7900
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.04° EAST TO GRID
Vertical Section Plane: 270.69
Survey Vert. Reference: 25.00' Rotary Table To Ground
Altitude: 3494.00' Ground To MSL

Survey Calculations by RX5 V6.05B using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.												
51.62	0.39	259.49	51.62	0.00	0.17	0.04 S	0.17 W	32.63741598 N	103.83351858 W	0.17@	255.55	0.00
146.15	0.43	253.58	146.15	94.53	0.82	0.20 S	0.82 W	32.63741556 N	103.83352071 W	0.85@	256.22	0.06
240.68	0.19	247.01	240.68	94.53	1.30	0.36 S	1.31 W	32.63741512 N	103.83352229 W	1.36@	254.47	0.26
335.21	0.68	349.83	335.20	94.53	1.55	0.13 N	1.55 W	32.63741647 N	103.83352307 W	1.56@	274.71	0.79
429.74	1.42	339.01	429.72	94.53	2.09	1.77 N	2.07 W	32.63742100 N	103.83352473 W	2.72@	310.61	0.81
524.27	1.91	339.67	524.21	94.53	3.09	4.34 N	3.04 W	32.63742808 N	103.83352783 W	5.30@	325.06	0.52
618.80	2.11	336.07	618.68	94.53	4.38	7.41 N	4.29 W	32.63743653 N	103.83353186 W	8.56@	329.95	0.25
713.33	2.16	334.41	713.14	94.53	5.89	10.61 N	5.76 W	32.63744533 N	103.83353660 W	12.07@	331.49	0.08
807.86	2.18	337.13	807.61	94.53	7.40	13.87 N	7.23 W	32.63745432 N	103.83354132 W	15.64@	332.47	0.11
902.39	2.39	334.10	902.06	94.53	9.00	17.30 N	8.79 W	32.63746377 N	103.83354633 W	19.41@	333.06	0.26
996.92	2.36	330.12	996.51	94.53	10.87	20.76 N	10.62 W	32.63747331 N	103.83355223 W	23.32@	332.91	0.18
1091.45	2.29	324.93	1090.96	94.53	12.97	24.00 N	12.68 W	32.63748222 N	103.83355885 W	27.14@	332.15	0.23
1185.98	1.98	320.74	1185.43	94.53	15.12	26.81 N	14.80 W	32.63748997 N	103.83356569 W	30.62@	331.10	0.37
1280.51	1.81	331.27	1279.91	94.53	16.90	29.38 N	16.55 W	32.63749707 N	103.83357134 W	33.72@	330.61	0.41
1375.04	1.73	339.02	1374.39	94.53	18.16	32.02 N	17.78 W	32.63750434 N	103.83357529 W	36.62@	330.96	0.27
1469.57	1.38	325.21	1468.89	94.53	19.35	34.29 N	18.94 W	32.63751059 N	103.83357903 W	39.17@	331.09	0.54
1564.10	1.16	335.83	1563.39	94.53	20.41	36.10 N	19.98 W	32.63751557 N	103.83358238 W	41.26@	331.04	0.34
1658.63	1.10	335.37	1657.90	94.53	21.20	37.79 N	20.75 W	32.63752025 N	103.83358486 W	43.11@	331.24	0.06
1753.16	1.20	8.00	1752.42	94.53	21.46	39.60 N	20.99 W	32.63752521 N	103.83358561 W	44.82@	332.08	0.69
1847.69	1.21	21.14	1846.93	94.53	20.99	41.51 N	20.49 W	32.63753046 N	103.83358396 W	46.29@	333.73	0.29
1942.22	1.29	33.65	1941.43	94.53	20.06	43.33 N	19.54 W	32.63753544 N	103.83358085 W	47.53@	335.73	0.30
2036.75	1.28	38.98	2035.94	94.53	18.83	45.03 N	18.29 W	32.63754012 N	103.83357675 W	48.60@	337.90	0.13
2131.28	1.36	28.60	2130.44	94.53	17.65	46.84 N	17.09 W	32.63754506 N	103.83357282 W	49.86@	339.96	0.27

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO LP
 REGULUS 26 FED #5H
 EDDY COUNTY, NM
 API#: 30-015-42489-00-X1 Rig: H&P 267

Page 02/06

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
2225.81	1.69	5.88	2224.94	94.53	17.00	49.21 N	16.41 W	32.63755157 N	103.83357058 W	51.87@	341.56	0.72
2320.34	3.00	348.02	2319.39	94.53	17.41	53.02 N	16.78 W	32.63756204 N	103.83357172 W	55.61@	342.44	1.57
2414.87	4.18	351.98	2413.74	94.53	18.48	58.85 N	17.77 W	32.63757808 N	103.83357487 W	61.47@	343.20	1.27
2509.40	3.60	358.85	2508.05	94.53	19.09	65.23 N	18.31 W	32.63759562 N	103.83357652 W	67.75@	344.32	0.79
2603.93	3.33	351.14	2602.40	94.53	19.65	70.91 N	18.79 W	32.63761124 N	103.83357800 W	73.36@	345.16	0.57
2698.46	3.64	355.05	2696.76	94.53	20.40	76.61 N	19.47 W	32.63762692 N	103.83358013 W	79.05@	345.74	0.41
2792.99	4.33	352.27	2791.06	94.53	21.21	83.14 N	20.21 W	32.63764487 N	103.83358243 W	85.56@	346.33	0.76
2887.52	4.64	357.07	2885.30	94.53	21.98	90.49 N	20.89 W	32.63766509 N	103.83358451 W	92.87@	347.00	0.52
2982.05	4.86	350.34	2979.51	94.53	22.94	98.26 N	21.76 W	32.63768645 N	103.83358721 W	100.64@	347.51	0.63
3076.58	4.67	357.51	3073.71	94.53	23.87	106.05 N	22.60 W	32.63770788 N	103.83358982 W	108.43@	347.97	0.66
3171.11	4.60	1.03	3167.93	94.53	24.06	113.68 N	22.69 W	32.63772886 N	103.83359002 W	115.93@	348.71	0.31
3265.64	4.35	11.58	3262.18	94.53	23.36	120.98 N	21.91 W	32.63774892 N	103.83358735 W	122.95@	349.74	0.91
3360.17	4.67	11.49	3356.41	94.53	21.96	128.27 N	20.42 W	32.63776892 N	103.83358241 W	129.88@	350.95	0.34
3454.70	4.65	15.12	3450.63	94.53	20.29	135.74 N	18.65 W	32.63778943 N	103.83357656 W	137.01@	352.17	0.31
3549.23	4.62	9.11	3544.85	94.53	18.78	143.20 N	17.05 W	32.63780991 N	103.83357124 W	144.21@	353.21	0.52
3643.76	4.30	10.92	3639.10	94.53	17.59	150.44 N	15.78 W	32.63782979 N	103.83356699 W	151.26@	354.01	0.37
3738.29	3.61	8.88	3733.40	94.53	16.54	156.86 N	14.65 W	32.63784742 N	103.83356322 W	157.54@	354.67	0.75
3832.82	3.65	9.54	3827.74	94.53	15.65	162.76 N	13.69 W	32.63786365 N	103.83356002 W	163.34@	355.19	0.06
3927.35	3.23	7.91	3922.10	94.53	14.85	168.37 N	12.82 W	32.63787904 N	103.83355712 W	168.86@	355.64	0.46
4021.88	2.64	359.10	4016.51	94.53	14.58	173.18 N	12.49 W	32.63789227 N	103.83355597 W	173.63@	355.87	0.78
4116.41	2.15	358.67	4110.95	94.53	14.70	177.13 N	12.57 W	32.63790313 N	103.83355616 W	177.58@	355.94	0.52
4210.94	2.12	352.29	4205.42	94.53	15.02	180.64 N	12.84 W	32.63791277 N	103.83355700 W	181.09@	355.93	0.25
4305.47	1.99	356.47	4299.89	94.53	15.39	184.01 N	13.18 W	32.63792204 N	103.83355804 W	184.48@	355.90	0.21
4400.00	2.14	353.75	4394.36	94.53	15.73	187.40 N	13.47 W	32.63793137 N	103.83355894 W	187.88@	355.89	0.19

** TIED INTO VAUGHN ENERGY SERVICES GYRO SURVEYS.

4446.00	1.69	354.52	4440.33	46.00	15.90	188.93 N	13.63 W	32.63793557 N	103.83355943 W	189.42@	355.87	0.98
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
4489.00	1.85	34.29	4483.31	43.00	15.59	190.13 N	13.30 W	32.63793888 N	103.83355834 W	190.60@	356.00	2.82
4584.00	1.23	15.65	4578.28	95.00	14.48	192.38 N	12.16 W	32.63794505 N	103.83355460 W	192.77@	356.38	0.83

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO LP
 REGULUS 26 FED #5H
 EDDY COUNTY, NM
 API#: 30-015-42489-00-X1 Rig: H&P 267

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
4678.00	2.29	63.73	4672.24	94.00	12.54	194.19 N	10.20 W	32.63794998 N	103.83354822 W	194.45@	356.99	1.84
4773.00	5.80	74.45	4766.99	95.00	6.24	196.31 N	3.88 W	32.63795574 N	103.83352763 W	196.35@	358.87	3.76
4867.00	4.66	102.49	4860.61	94.00	-2.06	196.76 N	4.43 E	32.63795686 N	103.83350064 W	196.81@	1.29	2.94
4962.00	4.84	100.91	4955.28	95.00	-9.78	195.17 N	12.13 E	32.63795239 N	103.83347564 W	195.55@	3.56	0.23
5057.00	4.40	92.03	5049.97	95.00	-17.37	194.28 N	19.71 E	32.63794985 N	103.83345104 W	195.28@	5.79	0.88
5152.00	3.43	110.75	5144.75	95.00	-23.68	193.14 N	26.01 E	32.63794664 N	103.83343059 W	194.89@	7.67	1.68
5246.00	5.36	103.54	5238.48	94.00	-30.60	191.12 N	32.91 E	32.63794099 N	103.83340821 W	193.93@	9.77	2.13
5341.00	5.19	91.42	5333.08	95.00	-39.23	189.97 N	41.52 E	32.63793773 N	103.83338026 W	194.46@	12.33	1.18
5435.00	4.66	90.98	5426.73	94.00	-47.30	189.80 N	49.59 E	32.63793716 N	103.83335406 W	196.17@	14.64	0.57
5530.00	6.60	83.15	5521.27	95.00	-56.57	190.39 N	58.87 E	32.63793865 N	103.83332390 W	199.28@	17.18	2.19
5625.00	6.86	100.12	5615.62	95.00	-67.58	190.04 N	69.87 E	32.63793755 N	103.83328815 W	202.48@	20.19	2.10
5720.00	6.33	108.29	5709.99	95.00	-78.17	187.40 N	80.43 E	32.63793016 N	103.83325389 W	203.93@	23.23	1.13
5815.00	5.54	95.72	5804.49	95.00	-87.73	185.30 N	89.97 E	32.63792426 N	103.83322295 W	205.99@	25.90	1.60
5910.00	5.80	108.20	5899.03	95.00	-96.88	183.35 N	99.09 E	32.63791877 N	103.83319334 W	208.41@	28.39	1.32
6004.00	5.72	109.35	5992.55	94.00	-105.84	180.31 N	108.02 E	32.63791031 N	103.83316437 W	210.19@	30.93	0.15
6099.00	6.60	111.37	6087.00	95.00	-115.44	176.75 N	117.57 E	32.63790040 N	103.83313340 W	212.29@	33.63	0.95
6194.00	5.72	104.33	6181.45	95.00	-125.15	173.59 N	127.24 E	32.63789159 N	103.83310203 W	215.23@	36.24	1.22
6289.00	4.31	119.89	6276.09	95.00	-132.86	170.64 N	134.93 E	32.63788338 N	103.83307712 W	217.54@	38.33	2.05
6384.00	3.96	125.08	6370.85	95.00	-138.69	166.98 N	140.71 E	32.63787323 N	103.83305840 W	218.36@	40.12	0.54
6479.00	3.52	104.95	6465.65	95.00	-144.22	164.34 N	146.21 E	32.63786591 N	103.83304057 W	219.96@	41.66	1.45
6574.00	4.31	95.99	6560.43	95.00	-150.60	163.21 N	152.58 E	32.63786274 N	103.83301990 W	223.42@	43.07	1.05
6669.00	4.48	93.35	6655.15	95.00	-157.86	162.62 N	159.83 E	32.63786102 N	103.83299634 W	228.02@	44.50	0.28
6764.00	5.19	96.42	6749.81	95.00	-165.84	161.93 N	167.81 E	32.63785900 N	103.83297045 W	233.19@	46.02	0.79
6859.00	5.45	101.96	6844.40	95.00	-174.54	160.51 N	176.49 E	32.63785500 N	103.83294226 W	238.56@	47.71	0.61
6954.00	4.66	101.35	6939.03	95.00	-182.76	158.82 N	184.69 E	32.63785024 N	103.83291566 W	243.58@	49.31	0.83
7049.00	4.04	101.70	7033.76	95.00	-189.84	157.38 N	191.75 E	32.63784619 N	103.83289275 W	248.06@	50.62	0.65
7144.00	4.48	95.90	7128.49	95.00	-196.82	156.32 N	198.71 E	32.63784319 N	103.83287013 W	252.83@	51.81	0.65

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO LP
 REGULUS 26 FED #5H
 EDDY COUNTY, NM
 API#: 30-015-42489-00-X1 Rig: H&P 267

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
7239.00	4.40	93.26	7223.21	95.00	-204.15	155.73 N	206.04 E	32.63784148 N	103.83284633 W	258.27@	52.92	0.23
7333.00	3.34	93.61	7316.99	94.00	-210.49	155.35 N	212.38 E	32.63784036 N	103.83282576 W	263.13@	53.81	1.13
7429.00	2.64	91.77	7412.86	96.00	-215.49	155.11 N	217.38 E	32.63783962 N	103.83280952 W	267.04@	54.49	0.74
7525.00	3.52	92.38	7508.72	96.00	-220.65	154.92 N	222.53 E	32.63783903 N	103.83279278 W	271.15@	55.16	0.92
7621.00	3.96	95.37	7604.52	96.00	-226.90	154.49 N	228.78 E	32.63783776 N	103.83277250 W	276.05@	55.97	0.50
7717.00	4.75	96.42	7700.24	96.00	-234.16	153.73 N	236.03 E	32.63783559 N	103.83274896 W	281.68@	56.92	0.83
7812.00	4.66	96.07	7794.92	95.00	-241.91	152.88 N	243.77 E	32.63783316 N	103.83272381 W	287.75@	57.91	0.10
7907.00	5.10	127.20	7889.59	95.00	-249.15	149.92 N	250.97 E	32.63782493 N	103.83270046 W	292.34@	59.15	2.79
7939.00	6.77	144.92	7921.42	32.00	-251.40	147.52 N	253.19 E	32.63781829 N	103.83269329 W	293.03@	59.77	7.69
7971.00	8.53	159.11	7953.14	32.00	-253.37	143.76 N	255.12 E	32.63780793 N	103.83268708 W	292.84@	60.60	8.03
8002.00	10.73	169.35	7983.70	31.00	-254.79	138.77 N	256.48 E	32.63779421 N	103.83268276 W	291.61@	61.58	8.97
8034.00	12.40	179.18	8015.05	32.00	-255.46	132.41 N	257.08 E	32.63777671 N	103.83268091 W	289.17@	62.75	8.05
8065.00	13.19	189.81	8045.29	31.00	-254.99	125.59 N	256.52 E	32.63775799 N	103.83268281 W	285.62@	63.91	8.00
8097.00	14.07	199.77	8076.39	32.00	-253.14	118.33 N	254.58 E	32.63773806 N	103.83268922 W	280.74@	65.07	7.82
8128.00	15.83	218.36	8106.36	31.00	-249.32	111.47 N	250.68 E	32.63771924 N	103.83270200 W	274.35@	66.03	16.39
8160.00	17.67	233.68	8137.01	32.00	-242.77	105.16 N	244.06 E	32.63770200 N	103.83272362 W	265.75@	66.69	14.89
8192.00	21.98	239.12	8167.11	32.00	-233.79	99.21 N	235.00 E	32.63768575 N	103.83275313 W	255.08@	67.11	14.64
8223.00	25.41	243.23	8195.50	31.00	-222.94	93.24 N	224.08 E	32.63766947 N	103.83278870 W	242.70@	67.41	12.28
8255.00	28.05	251.89	8224.09	32.00	-209.72	87.80 N	210.79 E	32.63765471 N	103.83283195 W	228.34@	67.39	14.69
8287.00	32.62	256.71	8251.70	32.00	-194.21	83.48 N	195.23 E	32.63764302 N	103.83288255 W	212.33@	66.85	16.17
8318.00	37.20	259.37	8277.12	31.00	-176.91	79.83 N	177.88 E	32.63763321 N	103.83293898 W	194.97@	65.83	15.57
8350.00	41.15	265.34	8301.93	32.00	-156.92	77.18 N	157.86 E	32.63762621 N	103.83300404 W	175.72@	63.94	17.06
8381.00	45.73	268.81	8324.43	31.00	-135.66	76.12 N	136.59 E	32.63762357 N	103.83307317 W	156.37@	60.87	16.66
8413.00	49.86	270.38	8345.93	32.00	-111.97	75.97 N	112.89 E	32.63762344 N	103.83315015 W	136.07@	56.06	13.41
8445.00	53.90	271.50	8365.68	32.00	-86.80	76.39 N	87.73 E	32.63762492 N	103.83323190 W	116.32@	48.95	12.92
8476.00	57.86	273.70	8383.07	31.00	-61.16	77.56 N	62.10 E	32.63762849 N	103.83331514 W	99.36@	38.68	14.06
8508.00	62.87	275.02	8398.88	32.00	-33.41	79.68 N	34.37 E	32.63763468 N	103.83340516 W	86.78@	23.33	16.06

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO LP
 REGULUS 26 FED #5H
 EDDY COUNTY, NM
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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
8539.00	67.18	276.14	8411.97	31.00	-5.42	82.42 N	6.41 E	32.63764256 N	103.83349595 W	82.67@	4.45	14.28
8571.00	70.52	278.82	8423.52	32.00	24.21	86.31 N	23.17 W	32.63765364 N	103.83359198 W	89.37@	344.97	13.03
8603.00	74.74	280.79	8433.07	32.00	54.35	91.52 N	53.25 W	32.63766834 N	103.83368964 W	105.88@	329.80	14.44
8634.00	78.17	281.46	8440.33	31.00	83.99	97.33 N	82.82 W	32.63768470 N	103.83378559 W	127.80@	319.61	11.26
8666.00	82.04	280.74	8445.82	32.00	114.99	103.40 N	113.75 W	32.63770178 N	103.83388597 W	153.72@	312.27	12.29
8697.00	86.79	279.93	8448.84	31.00	145.39	108.93 N	144.09 W	32.63771738 N	103.83398446 W	180.64@	307.09	15.54
8762.00	93.65	278.43	8448.59	65.00	209.64	119.30 N	208.22 W	32.63774669 N	103.83419262 W	239.97@	299.81	10.80
8857.00	93.47	277.10	8442.69	95.00	303.73	132.11 N	302.16 W	32.63778311 N	103.83449760 W	329.78@	293.61	1.41
8952.00	93.12	276.54	8437.23	95.00	398.03	143.37 N	396.34 W	32.63781529 N	103.83480334 W	421.47@	289.89	0.70
9046.00	92.15	274.73	8432.91	94.00	491.58	152.59 N	489.78 W	32.63784183 N	103.83510675 W	513.00@	287.30	2.18
9141.00	89.96	272.01	8431.16	95.00	586.45	158.17 N	584.58 W	32.63785839 N	103.83541464 W	605.60@	285.14	3.68
9236.00	89.69	269.89	8431.45	95.00	681.44	159.75 N	679.56 W	32.63786395 N	103.83572316 W	698.09@	283.23	2.25
9331.00	90.75	268.00	8431.09	95.00	776.39	158.00 N	774.54 W	32.63786036 N	103.83603172 W	790.49@	281.53	2.28
9425.00	90.22	266.26	8430.29	94.00	870.20	153.29 N	868.42 W	32.63784863 N	103.83633675 W	881.84@	280.01	1.93
9520.00	90.04	265.59	8430.08	95.00	964.87	146.54 N	963.18 W	32.63783130 N	103.83664467 W	974.26@	278.65	0.73
9614.00	88.64	266.17	8431.16	94.00	1058.53	139.79 N	1056.92 W	32.63781394 N	103.83694932 W	1066.13@	277.53	1.61
9709.00	89.08	267.69	8433.05	95.00	1153.30	134.70 N	1151.77 W	32.63780118 N	103.83725749 W	1159.62@	276.67	1.67
9804.00	90.13	266.31	8433.70	95.00	1248.10	129.73 N	1246.63 W	32.63778873 N	103.83756573 W	1253.36@	275.94	1.82
9898.00	90.75	266.88	8432.98	94.00	1341.86	124.15 N	1340.46 W	32.63777459 N	103.83787062 W	1346.20@	275.29	0.90
9993.00	91.10	267.42	8431.45	95.00	1436.66	119.42 N	1435.33 W	32.63776282 N	103.83817888 W	1440.29@	274.76	0.68
10088.00	92.42	267.55	8428.53	95.00	1531.47	115.26 N	1530.19 W	32.63775258 N	103.83848709 W	1534.53@	274.31	1.40
10183.00	92.15	268.82	8424.74	95.00	1626.30	112.25 N	1625.07 W	32.63774553 N	103.83879534 W	1628.94@	273.95	1.37
10278.00	92.07	268.37	8421.24	95.00	1721.17	109.92 N	1719.97 W	32.63774035 N	103.83910368 W	1723.48@	273.66	0.48
10372.00	92.86	268.02	8417.20	94.00	1814.99	106.96 N	1813.84 W	32.63773342 N	103.83940865 W	1816.99@	273.37	0.92
10467.00	91.54	267.85	8413.55	95.00	1909.81	103.54 N	1908.70 W	32.63772523 N	103.83971687 W	1911.51@	273.11	1.40
10561.00	91.80	268.73	8410.82	94.00	2003.69	100.74 N	2002.62 W	32.63771872 N	103.84002200 W	2005.15@	272.88	0.98
10656.00	91.71	268.87	8407.91	95.00	2098.59	98.75 N	2097.56 W	32.63771447 N	103.84033043 W	2099.88@	272.70	0.17

PathFinder – a Schlumberger company

Survey Report

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Survey Latitude (deg)	Survey Longitude (deg)	Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
10751.00	90.84	269.61	8405.79	95.00	2193.54	97.49 N	2192.52 W	32.63771222 N	103.84063895 W	2194.69@	272.55	1.20
10845.00	89.78	268.77	8405.28	94.00	2287.50	96.16 N	2286.51 W	32.63770976 N	103.84094428 W	2288.53@	272.41	1.44
10940.00	90.13	267.24	8405.36	95.00	2382.39	92.85 N	2381.45 W	32.63770188 N	103.84125274 W	2383.26@	272.23	1.65
11035.00	90.13	268.25	8405.14	95.00	2477.27	89.12 N	2476.37 W	32.63769281 N	103.84156116 W	2477.98@	272.06	1.06
11130.00	90.48	268.78	8404.64	95.00	2572.20	86.66 N	2571.34 W	32.63768726 N	103.84186970 W	2572.80@	271.93	0.67
11224.00	89.52	269.22	8404.64	94.00	2666.16	85.01 N	2665.33 W	32.63768394 N	103.84217503 W	2666.68@	271.83	1.12
11319.00	90.84	269.57	8404.34	95.00	2761.13	84.01 N	2760.32 W	32.63768239 N	103.84248363 W	2761.60@	271.74	1.44
11414.00	90.40	270.27	8403.31	95.00	2856.11	83.88 N	2855.31 W	32.63768323 N	103.84279221 W	2856.54@	271.68	0.87
11508.00	92.95	270.36	8400.56	94.00	2950.06	84.40 N	2949.26 W	32.63768584 N	103.84309740 W	2950.47@	271.64	2.71
11603.00	91.80	270.62	8396.63	95.00	3044.98	85.21 N	3044.17 W	32.63768928 N	103.84340572 W	3045.37@	271.60	1.24
11697.00	92.07	271.68	8393.45	94.00	3138.92	87.09 N	3138.10 W	32.63769565 N	103.84371081 W	3139.31@	271.59	1.16
11792.00	90.84	270.89	8391.04	95.00	3233.88	89.22 N	3233.04 W	32.63770271 N	103.84401920 W	3234.27@	271.58	1.54
11910.00	90.92	269.74	8389.23	118.00	3351.86	89.87 N	3351.03 W	32.63770598 N	103.84440245 W	3352.23@	271.54	0.98
12005.00	91.80	268.78	8386.97	95.00	3446.81	88.64 N	3445.99 W	32.63770381 N	103.84471096 W	3447.13@	271.47	1.37
12100.00	91.98	267.81	8383.84	95.00	3541.67	85.82 N	3540.89 W	32.63769725 N	103.84501930 W	3541.93@	271.39	1.04
12194.00	93.47	267.11	8379.37	94.00	3635.41	81.66 N	3634.69 W	32.63768700 N	103.84532407 W	3635.61@	271.29	1.75
12289.00	93.91	266.05	8373.26	95.00	3729.97	76.00 N	3729.33 W	32.63767265 N	103.84563156 W	3730.10@	271.17	1.21
12384.00	92.59	266.23	8367.87	95.00	3824.52	69.62 N	3823.95 W	32.63765629 N	103.84593906 W	3824.59@	271.04	1.40
12479.00	92.77	266.32	8363.43	95.00	3919.13	63.45 N	3918.65 W	32.63764054 N	103.84624677 W	3919.16@	270.93	0.21
12573.00	93.65	267.20	8358.16	94.00	4012.76	58.15 N	4012.35 W	32.63762714 N	103.84655124 W	4012.77@	270.83	1.32
12668.00	93.56	265.88	8352.19	95.00	4107.32	52.43 N	4106.99 W	32.63761260 N	103.84685875 W	4107.32@	270.73	1.39
12763.00	90.31	265.26	8348.98	95.00	4201.88	45.09 N	4201.64 W	32.63759364 N	103.84716633 W	4201.88@	270.61	3.48
12830.00	90.40	265.61	8348.57	67.00	4268.59	39.76 N	4268.42 W	32.63757982 N	103.84738336 W	4268.61@	270.53	0.54
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 12907' MD.												
12907.00	90.40	265.61	8348.03	77.00	4345.29	33.87 N	4345.20 W	32.63756459 N	103.84763284 W	4345.33@	270.45	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 – a Schlumberger company and may reflect minor changes due to rounding differences between survey programs. Only survey stations taken by qualified PathFinder personnel are subject to certification.



Directional Survey

Sub-Division DELAWARE BASIN	County EDDY	Field Name HACKBERRY	Region DELAWARE SLOPE EAST	State/Province NM
Surface Legal Location SEC26.19S31E	API/WVI 3001542489	Latitude (°) 32° 38' 14.698" N	Longitude (°) 103° 50' 0.665" W	Ground Elev. M. 3,494.80
				Orig. KB Elev. (ft) 3,519.80
				Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore OH	SAP Well ID 37434	Vertical Section Direction (°) 272.36
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Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)
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Actual Deviation Survey MWD SURVEYS Proposed? No	Definitive? No	Proposed? No	Proposed Deviation Survey
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Deviation Survey

Date 12/23/2014	Description MWD SURVEYS
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MD Tie In (ftKB) 4,446.00	TVD Tie In (ftKB) 4,440.00	Inclination Tie In (°) 1.69	Azimuth Tie In (°) 354.52	NSTie In (ft) 189.70	EWtie In (ft) -13.71
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Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/23/2	4,489.00	1.85	34.29	4,482.98	21.22	190.90	13.38	2.82	MWD	PATHFINDER ENERGY SE...
12/23/2	4,584.00	1.23	15.65	4,577.95	20.17	193.15	12.24	0.83	MWD	PATHFINDER ENERGY SE...
12/23/2	4,678.00	2.29	63.73	4,671.91	18.29	194.96	10.28	1.84	MWD	PATHFINDER ENERGY SE...
12/23/2	4,773.00	5.80	74.45	4,766.66	12.05	197.08	3.96	3.76	MWD	PATHFINDER ENERGY SE...
12/23/2	4,867.00	4.66	102.49	4,860.28	3.77	197.53	4.35	2.94	MWD	PATHFINDER ENERGY SE...
12/23/2	4,962.00	4.84	100.91	4,954.95	3.99	195.94	12.05	0.23	MWD	PATHFINDER ENERGY SE...
12/23/2	5,057.00	4.40	92.03	5,049.64	11.60	195.05	19.63	0.88	MWD	PATHFINDER ENERGY SE...
12/23/2	5,152.00	3.43	110.75	5,144.42	17.94	193.91	25.93	1.68	MWD	PATHFINDER ENERGY SE...
12/23/2	5,246.00	5.36	103.54	5,238.14	24.91	191.89	32.83	2.13	MWD	PATHFINDER ENERGY SE...
12/23/2	5,341.00	5.89	92.29	5,332.69	34.14	190.66	42.01	1.29	MWD	PATHFINDER ENERGY SE...
12/23/2	5,435.00	3.87	83.77	5,426.35	42.10	190.81	49.99	2.28	MWD	PATHFINDER ENERGY SE...
12/23/2	5,530.00	6.60	83.15	5,520.94	50.66	191.81	58.60	2.87	MWD	PATHFINDER ENERGY SE...
12/23/2	5,625.00	6.86	100.12	5,615.29	61.67	191.46	69.60	2.10	MWD	PATHFINDER ENERGY SE...
12/23/2	5,720.00	6.33	108.29	5,709.67	72.33	188.82	80.16	1.13	MWD	PATHFINDER ENERGY SE...
12/23/2	5,815.00	5.54	95.72	5,804.16	81.95	186.72	89.70	1.60	MWD	PATHFINDER ENERGY SE...
12/23/2	5,910.00	5.80	108.20	5,898.70	91.14	184.76	98.82	1.32	MWD	PATHFINDER ENERGY SE...
12/23/2	6,004.00	5.72	109.35	5,992.23	100.19	181.73	107.75	0.15	MWD	PATHFINDER ENERGY SE...
12/23/2	6,099.00	6.60	111.37	6,086.68	109.88	178.17	117.30	0.95	MWD	PATHFINDER ENERGY SE...
12/23/2	6,194.00	5.72	104.33	6,181.13	119.67	175.01	126.97	1.22	MWD	PATHFINDER ENERGY SE...
12/23/2	6,289.00	4.31	119.89	6,275.77	127.47	172.06	134.66	2.05	MWD	PATHFINDER ENERGY SE...
12/23/2	6,384.00	3.96	125.08	6,370.52	133.40	168.39	140.44	0.54	MWD	PATHFINDER ENERGY SE...
12/23/2	6,479.00	3.25	107.50	6,465.33	138.75	165.70	145.69	1.37	MWD	PATHFINDER ENERGY SE...
12/23/2	6,574.00	4.84	87.20	6,560.10	145.35	165.08	152.26	2.23	MWD	PATHFINDER ENERGY SE...
12/23/2	6,669.00	3.78	82.71	6,654.83	152.43	165.68	159.37	1.17	MWD	PATHFINDER ENERGY SE...
12/23/2	6,764.00	5.01	94.14	6,749.55	159.66	165.78	166.61	1.58	MWD	PATHFINDER ENERGY SE...
12/23/2	6,859.00	5.10	107.15	6,844.18	167.89	164.23	174.79	1.21	MWD	PATHFINDER ENERGY SE...
12/23/2	6,954.00	4.75	100.20	6,938.83	175.87	162.29	182.69	0.73	MWD	PATHFINDER ENERGY SE...
12/23/2	7,049.00	4.13	104.25	7,033.55	183.11	160.75	189.88	0.73	MWD	PATHFINDER ENERGY SE...
12/23/2	7,144.00	6.42	94.84	7,128.14	191.77	159.46	198.49	2.57	MWD	PATHFINDER ENERGY SE...
12/23/2	7,239.00	4.22	93.00	7,222.73	200.57	158.83	207.27	2.32	MWD	PATHFINDER ENERGY SE...
12/23/2	7,333.00	3.34	93.00	7,316.52	206.77	158.50	213.46	0.94	MWD	PATHFINDER ENERGY SE...
12/23/2	7,429.00	2.99	89.83	7,412.37	212.06	158.37	218.76	0.41	MWD	PATHFINDER ENERGY SE...
12/23/2	7,525.00	3.61	90.89	7,508.21	217.59	158.33	224.28	0.65	MWD	PATHFINDER ENERGY SE...
12/23/2	7,621.00	3.78	96.01	7,604.02	223.77	157.95	230.45	0.39	MWD	PATHFINDER ENERGY SE...
12/23/2	7,717.00	4.75	96.42	7,699.75	230.89	157.17	237.55	1.01	MWD	PATHFINDER ENERGY SE...
12/24/2	7,812.00	4.66	96.07	7,794.43	238.66	156.32	245.30	0.10	MWD	PATHFINDER ENERGY SE...
12/25/2	7,907.00	5.10	127.20	7,889.10	245.98	153.36	252.50	2.79	MWD	PATHFINDER ENERGY SE...
12/26/2	7,939.00	6.77	144.92	7,920.93	248.29	150.96	254.72	7.69	MWD	PATHFINDER ENERGY SE...
12/26/2	7,971.00	8.53	159.11	7,952.65	250.38	147.20	256.65	8.03	MWD	PATHFINDER ENERGY SE...
12/26/2	8,002.00	10.73	169.35	7,983.21	251.94	142.21	258.00	8.97	MWD	PATHFINDER ENERGY SE...
12/26/2	8,034.00	12.40	179.18	8,014.56	252.80	135.85	258.60	8.05	MWD	PATHFINDER ENERGY SE...
12/26/2	8,065.00	13.19	189.81	8,044.80	252.52	129.03	258.04	8.00	MWD	PATHFINDER ENERGY SE...
12/26/2	8,097.00	14.07	199.77	8,075.90	250.88	121.78	256.11	7.82	MWD	PATHFINDER ENERGY SE...
12/26/2	8,128.00	15.83	218.36	8,105.87	247.27	114.91	252.20	16.40	MWD	PATHFINDER ENERGY SE...



Directional Survey

Sub-Division	County	Field Name	Region	State/Province		
DELAWARE BASIN	EDDY	HACKBERRY	DELAWARE SLOPE EAST	NM		
Surface Legal Location	API/UTM	Latitude (°)	Longitude (°)	Ground Elev M.	Orig KB Elev (ft)	Tubing Head Elevation (ft)
SEC26-19S-31E	3001542489	32° 38' 14.698" N	103° 50' 0.665" W	3,494.80	3,519.80	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
12/26/2	8,160.00	17.67	233.68	8,136.52	240.91	108.61	245.58	14.89	MWD	PATHFINDER ENERGY SE...
12/26/2	8,192.00	21.98	239.12	8,166.62	232.10	102.65	236.52	14.64	MWD	PATHFINDER ENERGY SE...
12/26/2	8,223.00	25.41	243.23	8,195.01	221.44	96.68	225.60	12.27	MWD	PATHFINDER ENERGY SE...
12/26/2	8,255.00	28.05	251.89	8,223.59	208.38	91.24	212.31	14.69	MWD	PATHFINDER ENERGY SE...
12/26/2	8,287.00	32.62	256.71	8,251.21	193.02	86.92	196.76	16.17	MWD	PATHFINDER ENERGY SE...
12/27/2	8,318.00	37.20	259.37	8,276.63	175.83	83.27	179.40	15.57	MWD	PATHFINDER ENERGY SE...
12/27/2	8,350.00	41.15	265.34	8,301.44	155.94	80.63	159.39	17.06	MWD	PATHFINDER ENERGY SE...
12/27/2	8,381.00	45.73	268.81	8,323.94	134.72	79.57	138.11	16.65	MWD	PATHFINDER ENERGY SE...
12/27/2	8,413.00	49.86	270.38	8,345.44	111.05	79.41	114.41	13.41	MWD	PATHFINDER ENERGY SE...
12/27/2	8,445.00	53.90	271.50	8,365.19	85.89	79.83	89.25	12.92	MWD	PATHFINDER ENERGY SE...
12/27/2	8,476.00	57.86	273.70	8,382.57	60.24	81.00	63.62	14.06	MWD	PATHFINDER ENERGY SE...
12/27/2	8,508.00	62.87	275.02	8,398.39	32.45	83.13	35.90	16.06	MWD	PATHFINDER ENERGY SE...
12/27/2	8,539.00	67.18	276.14	8,411.48	4.40	85.86	7.94	14.28	MWD	PATHFINDER ENERGY SE...
12/27/2	8,571.00	70.52	278.82	8,423.02	25.32	89.75	21.65	13.04	MWD	PATHFINDER ENERGY SE...
12/27/2	8,603.00	74.74	280.79	8,432.58	55.59	94.96	51.73	14.44	MWD	PATHFINDER ENERGY SE...
12/27/2	8,634.00	78.17	281.46	8,439.84	85.37	100.78	81.30	11.26	MWD	PATHFINDER ENERGY SE...
12/27/2	8,666.00	82.04	280.74	8,445.33	116.52	106.84	112.23	12.30	MWD	PATHFINDER ENERGY SE...
12/27/2	8,697.00	86.79	279.93	8,448.35	147.07	112.38	142.57	15.54	MWD	PATHFINDER ENERGY SE...
12/27/2	8,762.00	93.65	278.43	8,448.10	211.57	122.74	206.70	10.80	MWD	PATHFINDER ENERGY SE...
12/27/2	8,857.00	93.47	277.10	8,442.20	305.96	135.55	300.64	1.41	MWD	PATHFINDER ENERGY SE...
12/27/2	8,952.00	93.12	276.54	8,436.74	400.51	146.81	394.81	0.69	MWD	PATHFINDER ENERGY SE...
12/27/2	9,046.00	92.15	274.73	8,432.42	494.26	156.03	488.25	2.18	MWD	PATHFINDER ENERGY SE...
12/27/2	9,141.00	89.96	272.01	8,430.67	589.21	161.61	583.06	3.68	MWD	PATHFINDER ENERGY SE...
12/28/2	9,236.00	89.69	269.89	8,430.96	684.18	163.19	678.04	2.25	MWD	PATHFINDER ENERGY SE...
12/28/2	9,331.00	90.75	268.00	8,430.60	779.00	161.44	773.02	2.28	MWD	PATHFINDER ENERGY SE...
12/29/2	9,425.00	90.22	266.26	8,429.80	872.60	156.73	866.89	1.93	MWD	PATHFINDER ENERGY SE...
12/29/2	9,520.00	90.04	265.59	8,429.58	967.00	149.98	961.65	0.73	MWD	PATHFINDER ENERGY SE...
12/29/2	9,614.00	88.64	266.17	8,430.67	1,060.40	143.23	1,055.40	1.61	MWD	PATHFINDER ENERGY SE...
12/29/2	9,709.00	89.08	267.69	8,432.56	1,154.95	138.14	1,150.24	1.67	MWD	PATHFINDER ENERGY SE...
12/29/2	9,804.00	90.13	266.31	8,433.21	1,249.53	133.17	1,245.11	1.83	MWD	PATHFINDER ENERGY SE...
12/29/2	9,898.00	90.75	266.88	8,432.49	1,343.05	127.59	1,338.94	0.90	MWD	PATHFINDER ENERGY SE...
12/29/2	9,993.00	91.10	267.42	8,430.96	1,437.64	122.86	1,433.81	0.68	MWD	PATHFINDER ENERGY SE...
12/29/2	10,088.00	92.42	267.55	8,428.04	1,532.26	118.70	1,528.67	1.40	MWD	PATHFINDER ENERGY SE...
12/29/2	10,183.00	92.15	268.82	8,424.25	1,626.93	115.69	1,623.54	1.37	MWD	PATHFINDER ENERGY SE...
12/29/2	10,278.00	92.07	268.37	8,420.75	1,721.66	113.36	1,718.45	0.48	MWD	PATHFINDER ENERGY SE...
12/29/2	10,372.00	92.86	268.02	8,416.71	1,815.32	110.41	1,812.31	0.92	MWD	PATHFINDER ENERGY SE...
12/29/2	10,467.00	91.54	267.85	8,413.06	1,909.97	106.99	1,907.18	1.40	MWD	PATHFINDER ENERGY SE...
12/29/2	10,561.00	91.80	268.73	8,410.32	2,003.69	104.18	2,001.10	0.98	MWD	PATHFINDER ENERGY SE...
12/29/2	10,656.00	91.71	268.87	8,407.42	2,098.46	102.19	2,096.03	0.18	MWD	PATHFINDER ENERGY SE...
12/29/2	10,751.00	90.84	269.61	8,405.30	2,193.30	100.93	2,191.00	1.20	MWD	PATHFINDER ENERGY SE...
12/29/2	10,845.00	89.78	268.77	8,404.79	2,287.15	99.60	2,284.99	1.44	MWD	PATHFINDER ENERGY SE...
12/29/2	10,940.00	90.13	267.24	8,404.87	2,381.87	96.30	2,379.93	1.65	MWD	PATHFINDER ENERGY SE...
12/29/2	11,035.00	90.13	268.25	8,404.65	2,476.56	92.56	2,474.85	1.06	MWD	PATHFINDER ENERGY SE...
12/30/2	11,130.00	90.48	268.78	8,404.15	2,571.35	90.10	2,569.82	0.67	MWD	PATHFINDER ENERGY SE...
12/30/2	11,224.00	89.52	269.22	8,404.15	2,665.19	88.46	2,663.80	1.12	MWD	PATHFINDER ENERGY SE...
12/31/2	11,319.00	90.84	269.57	8,403.85	2,760.06	87.45	2,758.79	1.44	MWD	PATHFINDER ENERGY SE...
12/31/2	11,414.00	90.40	270.27	8,402.82	2,854.96	87.32	2,853.79	0.87	MWD	PATHFINDER ENERGY SE...
12/31/2	11,508.00	92.95	270.36	8,400.07	2,948.86	87.84	2,947.74	2.71	MWD	PATHFINDER ENERGY SE...
12/31/2	11,603.00	91.80	270.62	8,396.14	3,043.72	88.65	3,042.65	1.24	MWD	PATHFINDER ENERGY SE...
12/31/2	11,697.00	92.07	271.68	8,392.96	3,137.65	90.53	3,136.58	1.16	MWD	PATHFINDER ENERGY SE...
12/31/2	11,792.00	90.84	270.89	8,390.55	3,232.60	92.66	3,231.52	1.54	MWD	PATHFINDER ENERGY SE...
1/3/2015	11,910.00	90.92	269.74	8,388.74	3,350.51	93.31	3,349.50	0.98	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,005.00	91.80	268.78	8,386.48	3,445.34	92.09	3,444.47	1.37	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,100.00	91.98	267.81	8,383.35	3,540.05	89.26	3,539.37	1.04	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,194.00	93.47	267.11	8,378.88	3,633.60	85.10	3,633.17	1.75	MWD	PATHFINDER ENERGY SE...



Directional Survey

Sub-Division	County	Field Name	Region	State/Province		
DELAWARE BASIN	EDDY	HACKBERRY	DELAWARE SLOPE EAST	NM		
Surface Legal Location	API/LMW	Latitude (°)	Longitude (°)	Ground Elev. M.	Orig KB Elev. (ft)	Tubing Head Elevation (ft)
SEC26-19S-31E	3001542489	32° 38' 14.698" N	103° 50' 0.665" W	3,494.80	3,519.80	

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Survey Tool	Survey Company
1/3/2015	12,289.00	93.91	266.05	8,372.77	3,727.92	79.45	3,727.80	1.21	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,384.00	92.59	266.23	8,367.38	3,822.20	73.06	3,822.43	1.40	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,479.00	92.77	266.32	8,362.94	3,916.57	66.90	3,917.13	0.21	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,573.00	93.65	267.20	8,357.67	4,009.97	61.59	4,010.83	1.32	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,668.00	93.56	265.88	8,351.70	4,104.29	55.87	4,105.46	1.39	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,763.00	90.31	265.26	8,348.49	4,198.56	48.54	4,200.11	3.48	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,830.00	90.40	265.61	8,348.08	4,265.07	43.20	4,266.90	0.54	MWD	PATHFINDER ENERGY SE...
1/3/2015	12,907.00	90.40	265.61	8,347.54	4,341.53	37.31	4,343.67	0.00	BIT	PATHFINDER ENERGY SE...

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0920
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brizos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-42489		² Pool Code 41480	³ Pool Name Lusk; Bone Spring, W.
⁴ Property Code 39114	⁵ Property Name REGULUS 26 FED		⁶ Well Number 5H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.		⁹ Elevation 3494.8

" Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	19 S	31 E		480	NORTH	667	EAST	EDDY

" Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	26	19 S	31 E		425	NORTH	282	WEST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°21'38"E 2639.62 FT NW CORNER SEC. 26 LAT. = 32.8387061°N LONG. = 103.8485138°W 282' NMSP EAST (FT) N = 598432.73 E = 690575.38 425' BOTTOM OF HOLE NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. SW CORNER SEC. 26 LAT. = 32.6241895°N LONG. = 103.8484792°W NMSP EAST (FT) N = 591151.53 E = 690610.14 S89°39'35"W 2644.24 FT			N89°55'36"E 2643.51 FT N Q CORNER SEC. 26 LAT. = 32.8387537°N LONG. = 103.8399410°W NMSP EAST (FT) N = 596462.18 E = 695214.22 REGULUS "26" FED #5H ELEV. = 3494.8 LAT. = 32.8374161°N (NAD83) LONG. = 103.8335180°W NMSP EAST (FT) N = 595984.79 E = 695193.65 SE CORNER SEC. 26 LAT. = 32.624123°N LONG. = 103.8313172°W NMSP EAST (FT) N = 591184.31 E = 695893.83 S89°37'45"W 2640.80 FT			" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Megan Moravec</i> 3/12/2015 Signature Date Megan Moravec, Regulatory Analyst Printed Name Megan.Moravec@dvn.com Email Address "SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. AUGUST 12 2011 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: FIDELON P. JARAMILLO, PLS 12797 SURVEY NO. 2292A		
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PP: 330' FNL & 455' FEL, Sec 26, T19S, R31E

Project Area: 
Producing Area: 