

PathFinder

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

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 30 2014

RECEIVED

PATHFINDER
A Schlumberger Company

DIRECTIONAL SURVEY REPORT

30-015-41560

DEVON ENERGY PRODUCTION CO., L.P.

SARGAS 28 FED COM #4H

EDDY COUNTY, NEW MEXICO

PREPARED BY: MARK TRAHAN

PathFinder

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February 10, 2014

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 30 2014

RECEIVED

DEVON ENERGY PRODUCTION CO.
Attn: Judith Barnett
333 West Sheridan
Oklahoma City, OK 73102

RE: DEVON ENERGY PRODUCTION CO., L.P.
SARGAS 28 FED COM #4H
EDDY COUNTY, NM
RIG: H&P 300
API NO.: 30-015-41560
PES FILE NO.: 13LAF0330

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,

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

MT:tb

PathFinder

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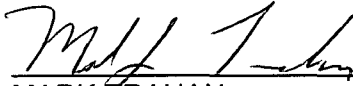
DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) KEVIN BLANCHARD
B) KEROLOS HANNA
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 01/04/14 TO 01/16/14
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.
SARGAS 28 FED COM #4H
EDDY COUNTY, NM
RIG: H&P 300
API NO.: 30-015-41560

9. SURVEY CERTIFIED FROM: 7,700 TO 13,860 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 5,283 FEET ON A BEARING OF 100.67 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 13,860 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.


MARK TRAHAH
M/LWD SERVICE COORDINATOR

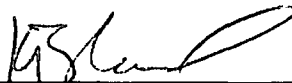
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STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Kevin Blanchard**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **01/04/14** through **01/16/14** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **7,700 feet to a depth of 13,860 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 **Sargas 28 Fed Com #4H** Well API No. **30-015-41560** 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: 01/04/2014
Date Completed: 01/16/2014

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers: KEVIN BLANCHARD
 KEROLOS HANNA

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.42.54.3732 N LON: 103.53.2.9830 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 679484.3683 Y: 624178.8100
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.21° EAST TO GRID
Vertical Section Plane: 96.94
Survey Vert. Reference: 26.00' Rotary Table To Ground
Altitude: 3638.00' Ground To MSL

Measured Depth	13860.00	(feet)
Inclination	87.14	(deg)
Azimuth	95.36	(deg)
True Vertical Depth	8885.89	(feet)
Vertical Section	5271.82	(feet)
Survey X cord	684676.05	(feet)
Survey Y cord	623200.83	(feet)
Survey Lat	32.71235398 N	(deg)
Survey Lon	103.86729612 W	(deg)
Rectangular Corr. N/S	977.98 S	(feet)
Rectangular Corr. E/W	5191.69 E	(feet)
Closure Distance	5283.00	(feet)
Direction of Closure	100.67	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 SARGAS "28" FED COM #4H
 EDDY COUNTY, NM
 API#: 30-015-41560 Rtg: H & P 300
 PathFinder Office Supervisor: MARK TRAHAN
 PathFinder Field Engineers: KEVIN BLANCHARD
 KEROLOS HANNA

Survey Horiz. Reference: WELLHEAD
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 Ref GRID Coord: X: 679484.3683 Y: 624178.8100
 North Aligned To: GRID NORTH
 Total Magnetic Correction: 7.21° EAST TO GRID
 Vertical Section Plane: 96.94
 Survey Vert. Reference: 26.00' Rotary Table To Ground
 Altitude: 3638.00' Ground To MSL

Survey Calculations by RX5 V6.05 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Survey Latitude (deg)	Survey Longitude (deg)	Closure		DLS
						Rectangular	Offsets			Dist	Dir	
			(ft)	(ft)	(ft)	(ft)	(ft)			(ft)	(deg)	
THE FOLLOWING ARE VAUGHN ENERGY SERVICES GYRO SURVEYS.												
0.00	0.00	0.00	0.00	0.00	0.02	0.03 S	0.01 E	32.71510357 N	103.88416190 W	0.03@	154.30	0.00
100.00	0.44	197.76	100.00	100.00	-0.05	0.40 S	0.10 W	32.71510257 N	103.88416228 W	0.41@	194.52	0.44
200.00	0.53	216.99	200.00	100.00	-0.36	1.13 S	0.50 W	32.71510055 N	103.88416358 W	1.24@	203.76	0.19
300.00	0.65	210.24	299.99	100.00	-0.81	1.99 S	1.06 W	32.71509820 N	103.88416542 W	2.26@	208.08	0.14
400.00	0.79	222.21	399.98	100.00	-1.44	2.99 S	1.81 W	32.71509545 N	103.88416787 W	3.50@	211.19	0.20
500.00	0.98	233.89	499.97	100.00	-2.46	4.01 S	2.96 W	32.71509268 N	103.88417164 W	4.98@	216.51	0.26
600.00	0.88	238.47	599.96	100.00	-3.69	4.91 S	4.31 W	32.71509021 N	103.88417602 W	6.53@	221.27	0.12
700.00	0.31	213.67	699.95	100.00	-4.41	5.54 S	5.11 W	32.71508849 N	103.88417865 W	7.54@	222.72	0.61
800.00	0.31	217.52	799.95	100.00	-4.67	5.98 S	5.43 W	32.71508729 N	103.88417968 W	8.08@	222.25	0.02
900.00	0.59	210.15	899.95	100.00	-5.01	6.64 S	5.85 W	32.71508548 N	103.88418106 W	8.85@	221.40	0.28
1000.00	0.65	205.71	999.94	100.00	-5.39	7.59 S	6.36 W	32.71508286 N	103.88418272 W	9.90@	219.94	0.08
1100.00	0.79	203.95	1099.94	100.00	-5.78	8.73 S	6.88 W	32.71507973 N	103.88418444 W	11.12@	218.24	0.14
1200.00	0.14	138.77	1199.93	100.00	-5.89	9.46 S	7.08 W	32.71507774 N	103.88418510 W	11.82@	216.83	0.74
1300.00	0.10	55.66	1299.93	100.00	-5.73	9.50 S	6.93 W	32.71507763 N	103.88418461 W	11.76@	216.11	0.16
1400.00	0.32	64.56	1399.93	100.00	-5.43	9.33 S	6.61 W	32.71507809 N	103.88418355 W	11.43@	215.30	0.22
1500.00	0.78	60.60	1499.93	100.00	-4.65	8.88 S	5.76 W	32.71507932 N	103.88418080 W	10.58@	212.98	0.46
1600.00	1.26	68.22	1599.91	100.00	-3.13	8.13 S	4.15 W	32.71508135 N	103.88417554 W	9.13@	207.01	0.50
1700.00	1.73	66.24	1699.88	100.00	-0.87	7.12 S	1.74 W	32.71508411 N	103.88416771 W	7.33@	193.77	0.47
1800.00	2.34	75.41	1799.81	100.00	2.33	6.00 S	1.61 E	32.71508716 N	103.88415678 W	6.21@	164.94	0.69
1900.00	2.91	80.67	1899.71	100.00	6.66	5.07 S	6.09 E	32.71508965 N	103.88414220 W	7.93@	129.76	0.62
2000.00	2.81	80.86	1999.58	100.00	11.45	4.27 S	11.02 E	32.71509179 N	103.88412618 W	11.82@	111.18	0.10
2100.00	1.94	76.64	2099.50	100.00	15.40	3.49 S	15.09 E	32.71509389 N	103.88411294 W	15.48@	103.02	0.89
2200.00	1.08	71.32	2199.46	100.00	17.83	2.80 S	17.62 E	32.71509577 N	103.88410468 W	17.85@	99.01	0.87

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300

Page 02/07

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)
2300.00	0.47	43.62	2299.45	100.00	18.93	2.20 S	18.80 E	32.71509740 N	103.88410085 W	18.93@	96.66	0.70
2400.00	0.96	343.08	2399.44	100.00	18.83	1.10 S	18.84 E	32.71510042 N	103.88410070 W	18.87@	93.34	0.84
2500.00	1.58	344.21	2499.42	100.00	17.96	1.03 N	18.22 E	32.71510627 N	103.88410269 W	18.25@	86.77	0.62
2600.00	2.09	348.90	2599.37	100.00	16.87	4.15 N	17.49 E	32.71511485 N	103.88410501 W	17.98@	76.67	0.53
2700.00	1.78	348.26	2699.31	100.00	15.80	7.46 N	16.83 E	32.71512395 N	103.88410713 W	18.41@	66.10	0.31
2800.00	1.75	352.29	2799.26	100.00	14.92	10.49 N	16.31 E	32.71513230 N	103.88410878 W	19.39@	57.25	0.13
2900.00	1.48	351.73	2899.22	100.00	14.19	13.28 N	15.92 E	32.71513997 N	103.88411001 W	20.73@	50.16	0.27
3000.00	1.12	357.91	2999.20	100.00	13.70	15.54 N	15.69 E	32.71514617 N	103.88411070 W	22.08@	45.29	0.39
3100.00	1.25	355.95	3099.18	100.00	13.34	17.60 N	15.58 E	32.71515185 N	103.88411104 W	23.51@	41.52	0.14
3200.00	1.14	356.66	3199.15	100.00	12.96	19.68 N	15.45 E	32.71515757 N	103.88411145 W	25.02@	38.13	0.11
3300.00	1.05	356.06	3299.14	100.00	12.61	21.59 N	15.33 E	32.71516281 N	103.88411182 W	26.48@	35.37	0.09
3400.00	0.92	353.26	3399.12	100.00	12.24	23.30 N	15.17 E	32.71516752 N	103.88411230 W	27.80@	33.07	0.14
3500.00	0.73	350.37	3499.11	100.00	11.87	24.72 N	14.97 E	32.71517144 N	103.88411294 W	28.90@	31.19	0.19
3600.00	0.59	347.66	3599.10	100.00	11.52	25.86 N	14.75 E	32.71517455 N	103.88411363 W	29.77@	29.71	0.14
3700.00	0.53	353.82	3699.10	100.00	11.24	26.82 N	14.59 E	32.71517720 N	103.88411413 W	30.53@	28.55	0.09
3800.00	0.56	341.63	3799.09	100.00	10.93	27.74 N	14.39 E	32.71517974 N	103.88411478 W	31.25@	27.41	0.12
3900.00	0.62	350.22	3899.09	100.00	10.57	28.74 N	14.14 E	32.71518248 N	103.88411557 W	32.03@	26.20	0.11
4000.00	0.50	344.22	3999.08	100.00	10.24	29.69 N	13.93 E	32.71518511 N	103.88411624 W	32.80@	25.14	0.13
4100.00	0.50	345.33	4099.08	100.00	9.91	30.53 N	13.70 E	32.71518742 N	103.88411697 W	33.47@	24.17	0.01
4200.00	0.36	26.06	4199.08	100.00	9.85	31.24 N	13.73 E	32.71518936 N	103.88411687 W	34.12@	23.73	0.33
4300.00	0.55	355.17	4299.07	100.00	9.86	32.00 N	13.83 E	32.71519145 N	103.88411655 W	34.86@	23.37	0.30
4400.00	0.69	2.96	4399.07	100.00	9.72	33.08 N	13.82 E	32.71519441 N	103.88411656 W	35.85@	22.67	0.16
4500.00	0.77	356.37	4499.06	100.00	9.55	34.35 N	13.81 E	32.71519791 N	103.88411658 W	37.02@	21.90	0.12
4600.00	0.91	327.17	4599.05	100.00	8.92	35.69 N	13.33 E	32.71520159 N	103.88411810 W	38.10@	20.49	0.45
4700.00	0.87	302.33	4699.04	100.00	7.73	36.76 N	12.26 E	32.71520456 N	103.88412157 W	38.75@	18.45	0.38
4800.00	1.09	291.93	4799.02	100.00	6.13	37.52 N	10.74 E	32.71520667 N	103.88412651 W	39.03@	15.97	0.28
4900.00	1.44	285.61	4899.00	100.00	3.96	38.22 N	8.65 E	32.71520860 N	103.88413331 W	39.18@	12.75	0.38

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300

Page 03/07

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)
5000.00	1.28	270.86	4998.97	100.00	1.61	38.57 N	6.32 E	32.71520960 N	103.88414087 W	39.09@	9.30	0.38
5100.00	1.48	260.37	5098.94	100.00	-0.74	38.37 N	3.93 E	32.71520908 N	103.88414864 W	38.57@	5.85	0.32
5200.00	1.56	259.99	5198.91	100.00	-3.28	37.92 N	1.31 E	32.71520786 N	103.88415715 W	37.94@	1.99	0.08
5300.00	1.41	240.18	5298.87	100.00	-5.56	37.07 N	1.09 W	32.71520556 N	103.88416499 W	37.09@	358.31	0.53
5400.00	1.40	244.26	5398.85	100.00	-7.58	35.93 N	3.26 W	32.71520245 N	103.88417205 W	36.08@	354.81	0.10
5500.00	1.06	252.57	5498.82	100.00	-9.45	35.12 N	5.24 W	32.71520025 N	103.88417851 W	35.51@	351.51	0.38
5600.00	0.44	268.96	5598.81	100.00	-10.67	34.84 N	6.51 W	32.71519948 N	103.88418263 W	35.44@	349.41	0.65
5700.00	0.38	295.80	5698.81	100.00	-11.37	34.97 N	7.19 W	32.71519987 N	103.88418485 W	35.71@	348.38	0.20
5800.00	0.38	347.24	5798.81	100.00	-11.79	35.44 N	7.56 W	32.71520116 N	103.88418605 W	36.24@	347.95	0.33
5900.00	0.88	17.56	5898.80	100.00	-11.76	36.50 N	7.41 W	32.71520406 N	103.88418552 W	37.24@	348.53	0.59
6000.00	1.47	24.73	5998.78	100.00	-11.23	38.39 N	6.64 W	32.71520926 N	103.88418300 W	38.96@	350.19	0.61
6100.00	1.54	17.64	6098.75	100.00	-10.59	40.84 N	5.69 W	32.71521598 N	103.88417989 W	41.24@	352.06	0.20
6200.00	1.46	12.13	6198.71	100.00	-10.22	43.37 N	5.02 W	32.71522291 N	103.88417766 W	43.66@	353.40	0.16
6300.00	0.98	7.41	6298.69	100.00	-10.10	45.46 N	4.64 W	32.71522866 N	103.88417641 W	45.70@	354.17	0.49
6400.00	0.67	0.97	6398.68	100.00	-10.15	46.89 N	4.52 W	32.71523260 N	103.88417600 W	47.11@	354.49	0.32
6500.00	0.72	345.22	6498.67	100.00	-10.45	48.08 N	4.67 W	32.71523588 N	103.88417647 W	48.31@	354.45	0.20
6600.00	0.68	317.85	6598.66	100.00	-11.13	49.13 N	5.23 W	32.71523876 N	103.88417827 W	49.41@	353.92	0.33
6700.00	0.64	311.95	6698.66	100.00	-12.03	49.95 N	6.04 W	32.71524101 N	103.88418090 W	50.31@	353.10	0.08
6800.00	0.68	296.73	6798.65	100.00	-13.05	50.59 N	6.99 W	32.71524278 N	103.88418397 W	51.07@	352.13	0.18
6900.00	1.21	268.20	6898.64	100.00	-14.65	50.82 N	8.57 W	32.71524344 N	103.88418912 W	51.54@	350.42	0.69
7000.00	0.63	273.63	6998.63	100.00	-16.24	50.82 N	10.18 W	32.71524346 N	103.88419434 W	51.83@	348.68	0.59
7100.00	0.32	272.63	7098.62	100.00	-17.07	50.87 N	11.01 W	32.71524360 N	103.88419703 W	52.05@	347.79	0.31
7200.00	1.34	326.06	7198.61	100.00	-18.12	51.85 N	11.94 W	32.71524631 N	103.88420004 W	53.21@	347.04	1.18
7300.00	1.63	339.07	7298.58	100.00	-19.55	54.15 N	13.10 W	32.71525264 N	103.88420378 W	55.71@	346.40	0.44
7400.00	2.20	342.96	7398.52	100.00	-20.99	57.31 N	14.17 W	32.71526135 N	103.88420722 W	59.04@	346.11	0.59
7500.00	2.15	327.74	7498.45	100.00	-22.96	60.73 N	15.73 W	32.71527077 N	103.88421226 W	62.74@	345.48	0.58
7600.00	1.98	304.10	7598.39	100.00	-25.68	63.29 N	18.16 W	32.71527782 N	103.88422013 W	65.84@	343.99	0.86

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300

Page 04/07

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Survey Latitude (deg)	Survey Longitude (deg)	Closure		DLS
						Rectangular	Offsets			Dist	Dir	
** TIED INTO VAUGHN ENERGY SERVICES GYRO SURVEYS @ 7700'MD.												
7700.00	2.20	300.42	7698.32	100.00	-28.98	65.23 N	21.25 W	32.71528319 N	103.88423014 W	68.60@	341.96	0.26
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
7781.00	1.58	290.89	7779.28	81.00	-31.49	66.42 N	23.63 W	32.71528648 N	103.88423787 W	70.50@	340.41	0.86
7876.00	3.87	151.63	7874.21	95.00	-30.90	64.06 N	23.33 W	32.71528000 N	103.88423693 W	68.18@	339.99	5.44
7970.00	8.18	142.36	7967.67	94.00	-24.37	55.97 N	17.74 W	32.71525770 N	103.88421885 W	58.71@	342.41	4.69
8065.00	13.37	141.58	8060.97	95.00	-11.81	42.00 N	6.78 W	32.71521918 N	103.88418341 W	42.55@	350.83	5.46
8160.00	20.66	139.73	8151.75	95.00	8.34	20.58 N	10.90 E	32.71516010 N	103.88412621 W	23.29@	27.91	7.69
8254.00	23.83	138.19	8238.74	94.00	34.79	6.23 S	34.29 E	32.71508612 N	103.88405055 W	34.85@	100.30	3.43
8348.00	30.16	137.29	8322.46	94.00	67.10	37.77 S	62.99 E	32.71499911 N	103.88395765 W	73.45@	120.95	6.75
8443.00	35.96	140.45	8402.05	95.00	105.55	76.85 S	96.97 E	32.71489130 N	103.88384772 W	123.73@	128.40	6.37
8538.00	40.89	140.65	8476.45	95.00	148.28	122.43 S	134.47 E	32.71476558 N	103.88372642 W	181.86@	132.32	5.19
8632.00	44.67	139.97	8545.43	94.00	194.69	171.54 S	175.25 E	32.71463012 N	103.88359453 W	245.23@	134.39	4.05
8664.00	44.05	139.68	8568.31	32.00	211.08	188.63 S	189.68 E	32.71458296 N	103.88354784 W	267.51@	134.84	2.04
8695.00	44.05	138.95	8590.59	31.00	227.01	204.98 S	203.73 E	32.71453787 N	103.88350238 W	289.00@	135.17	1.64
8727.00	46.08	137.73	8613.19	32.00	244.00	221.90 S	218.79 E	32.71449119 N	103.88345365 W	311.62@	135.40	6.89
8758.00	48.89	136.07	8634.14	31.00	261.52	238.58 S	234.41 E	32.71444517 N	103.88340311 W	334.46@	135.51	9.89
8790.00	51.62	134.50	8654.60	32.00	280.81	256.05 S	251.72 E	32.71439693 N	103.88334706 W	359.06@	135.49	9.33
8821.00	53.46	133.98	8673.45	31.00	300.39	273.22 S	269.35 E	32.71434955 N	103.88328998 W	383.66@	135.41	6.08
8852.00	55.31	131.70	8691.51	31.00	320.80	290.35 S	287.83 E	32.71430225 N	103.88323013 W	408.84@	135.25	8.45
8884.00	55.84	129.34	8709.60	32.00	342.79	307.49 S	307.89 E	32.71425489 N	103.88316513 W	435.14@	134.96	6.30
8914.00	56.81	127.08	8726.23	30.00	364.13	322.93 S	327.51 E	32.71421222 N	103.88310157 W	459.94@	134.60	7.05
8947.00	58.56	123.84	8743.88	33.00	388.63	339.10 S	350.22 E	32.71416752 N	103.88302794 W	487.49@	134.08	9.85
8978.00	60.67	120.77	8759.56	31.00	412.79	353.38 S	372.83 E	32.71412800 N	103.88295465 W	513.69@	133.47	10.92
9009.00	63.22	117.94	8774.14	31.00	438.08	366.78 S	396.67 E	32.71409089 N	103.88287731 W	540.26@	132.76	11.51
9041.00	67.36	116.26	8787.52	32.00	465.37	380.02 S	422.54 E	32.71405421 N	103.88279337 W	568.29@	131.97	13.79
9072.00	72.02	114.84	8798.27	31.00	492.91	392.55 S	448.77 E	32.71401946 N	103.88270828 W	596.23@	131.18	15.63

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300

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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)
9104.00	76.77	113.22	8806.88	32.00	522.36	405.09 S	476.91 E	32.71398466 N	103.88261696 W	625.73@ 130.34	15.62
9135.00	79.32	109.82	8813.30	31.00	551.71	416.21 S	505.12 E	32.71395377 N	103.88252540 W	654.50@ 129.49	13.52
9167.00	80.99	106.64	8818.77	32.00	582.62	426.07 S	535.06 E	32.71392632 N	103.88242819 W	683.97@ 128.53	11.09
9198.00	82.22	103.98	8823.30	31.00	612.96	434.16 S	564.64 E	32.71390373 N	103.88233214 W	712.26@ 127.56	9.37
9230.00	84.06	101.41	8827.12	32.00	644.57	441.14 S	595.63 E	32.71388418 N	103.88223147 W	741.20@ 126.52	9.83
9262.00	86.53	98.86	8829.75	32.00	676.40	446.75 S	627.02 E	32.71386839 N	103.88212949 W	769.89@ 125.47	11.07
9293.00	90.57	97.48	8830.53	31.00	707.38	451.15 S	657.69 E	32.71385593 N	103.88202984 W	797.55@ 124.45	13.77
9311.00	91.01	96.47	8830.29	18.00	725.38	453.34 S	675.55 E	32.71384972 N	103.88197179 W	813.56@ 123.86	6.12
9406.00	88.37	94.59	8830.80	95.00	820.33	462.49 S	770.09 E	32.71382345 N	103.88166453 W	898.30@ 120.99	3.41
9500.00	88.29	95.16	8833.54	94.00	914.23	470.48 S	863.71 E	32.71380040 N	103.88136026 W	983.54@ 118.58	0.61
9595.00	88.20	95.94	8836.45	95.00	1009.16	479.66 S	958.22 E	32.71377406 N	103.88105311 W	1071.57@ 116.59	0.83
9689.00	88.55	96.17	8839.11	94.00	1103.11	489.57 S	1051.66 E	32.71374572 N	103.88074945 W	1160.03@ 114.96	0.45
9784.00	89.34	96.88	8840.86	95.00	1198.09	500.37 S	1146.03 E	32.71371494 N	103.88044279 W	1250.50@ 113.59	1.12
9878.00	87.93	96.56	8843.10	94.00	1292.06	511.36 S	1239.35 E	32.71368362 N	103.88013952 W	1340.70@ 112.42	1.54
9973.00	87.76	96.03	8846.67	95.00	1386.99	521.77 S	1333.71 E	32.71365390 N	103.87983288 W	1432.14@ 111.37	0.59
10067.00	87.58	94.69	8850.50	94.00	1480.87	530.55 S	1427.22 E	32.71362869 N	103.87952897 W	1522.64@ 110.39	1.44
10162.00	88.90	96.29	8853.41	95.00	1575.79	539.63 S	1521.74 E	32.71360260 N	103.87922181 W	1614.59@ 109.53	2.18
10256.00	88.64	97.59	8855.43	94.00	1669.77	550.99 S	1615.03 E	32.71357030 N	103.87891866 W	1706.43@ 108.84	1.41
10351.00	89.69	96.51	8856.82	95.00	1764.75	562.64 S	1709.29 E	32.71353714 N	103.87861233 W	1799.52@ 108.22	1.59
10445.00	88.90	96.16	8857.97	94.00	1858.74	573.01 S	1802.71 E	32.71350753 N	103.87830875 W	1891.59@ 107.63	0.92
10540.00	89.69	96.76	8859.14	95.00	1953.73	583.70 S	1897.10 E	32.71347704 N	103.87800202 W	1984.87@ 107.10	1.04
10635.00	89.87	96.57	8859.51	95.00	2048.73	594.73 S	1991.46 E	32.71344562 N	103.87769539 W	2078.37@ 106.63	0.28
10729.00	89.69	96.17	8859.87	94.00	2142.72	605.16 S	2084.88 E	32.71341585 N	103.87739181 W	2170.93@ 106.19	0.47
10824.00	89.69	96.17	8860.38	95.00	2237.71	615.37 S	2179.33 E	32.71338667 N	103.87708488 W	2264.54@ 105.77	0.00
10919.00	89.43	95.52	8861.11	95.00	2332.69	625.04 S	2273.83 E	32.71335896 N	103.87677776 W	2358.17@ 105.37	0.74
11013.00	90.04	95.70	8861.55	94.00	2426.66	634.23 S	2367.38 E	32.71333260 N	103.87647374 W	2450.86@ 105.00	0.68
11107.00	90.22	95.15	8861.33	94.00	2520.63	643.12 S	2460.95 E	32.71330706 N	103.87616962 W	2543.60@ 104.65	0.62

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
SARGAS "28" FED COM #4H
EDDY COUNTY, NM
API#: 30-015-41560 Rig: H & P 300

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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)
11202.00	90.04	94.99	8861.12	95.00	2615.58	651.51 S	2555.58 E	32.71328287 N	103.87586208 W	2637.32@ 104.30	0.25
11296.00	89.52	96.00	8861.48	94.00	2709.55	660.51 S	2649.15 E	32.71325702 N	103.87555800 W	2730.25@ 104.00	1.21
11391.00	89.34	95.83	8862.42	95.00	2804.53	670.30 S	2743.64 E	32.71322899 N	103.87525093 W	2824.33@ 103.73	0.26
11485.00	88.81	97.31	8863.94	94.00	2898.51	681.06 S	2837.00 E	32.71319832 N	103.87494752 W	2917.61@ 103.50	1.67
11579.00	88.55	97.83	8866.11	94.00	2992.48	693.44 S	2930.16 E	32.71316318 N	103.87464482 W	3011.10@ 103.31	0.62
11674.00	88.72	98.12	8868.37	95.00	3087.44	706.61 S	3024.21 E	32.71312585 N	103.87433921 W	3105.67@ 103.15	0.35
11768.00	88.55	97.68	8870.61	94.00	3181.40	719.53 S	3117.30 E	32.71308924 N	103.87403676 W	3199.26@ 103.00	0.50
11863.00	89.34	96.65	8872.36	95.00	3276.38	731.38 S	3211.54 E	32.71305555 N	103.87373054 W	3293.76@ 102.83	1.37
11957.00	88.64	95.74	8874.01	94.00	3370.35	741.52 S	3304.97 E	32.71302656 N	103.87342690 W	3387.14@ 102.65	1.22
12052.00	90.13	95.61	8875.03	95.00	3465.32	750.91 S	3399.50 E	32.71299962 N	103.87311970 W	3481.44@ 102.46	1.58
12146.00	90.40	95.14	8874.60	94.00	3559.29	759.72 S	3493.08 E	32.71297430 N	103.87281556 W	3574.74@ 102.27	0.58
12241.00	90.84	96.77	8873.57	95.00	3654.26	769.57 S	3587.56 E	32.71294608 N	103.87250853 W	3669.17@ 102.11	1.78
12335.00	90.66	96.95	8872.34	94.00	3748.26	780.80 S	3680.88 E	32.71291411 N	103.87220528 W	3762.78@ 101.98	0.27
12430.00	91.36	97.06	8870.67	95.00	3843.24	792.38 S	3775.16 E	32.71288114 N	103.87189894 W	3857.42@ 101.85	0.75
12524.00	91.54	96.86	8868.29	94.00	3937.21	803.77 S	3868.43 E	32.71284873 N	103.87159583 W	3951.05@ 101.74	0.29
12619.00	92.42	97.62	8865.01	95.00	4032.15	815.73 S	3962.62 E	32.71281471 N	103.87128978 W	4045.71@ 101.63	1.22
12713.00	92.77	98.10	8860.75	94.00	4126.04	828.58 S	4055.64 E	32.71277830 N	103.87098753 W	4139.41@ 101.55	0.63
12808.00	91.89	98.38	8856.89	95.00	4220.94	842.18 S	4149.58 E	32.71273978 N	103.87068230 W	4234.18@ 101.47	0.97
12902.00	91.89	98.60	8853.79	94.00	4314.85	856.05 S	4242.50 E	32.71270055 N	103.87038040 W	4328.00@ 101.41	0.23
12997.00	89.60	98.18	8852.55	95.00	4409.81	869.91 S	4336.47 E	32.71266132 N	103.87007508 W	4422.86@ 101.34	2.45
13091.00	88.02	99.41	8854.50	94.00	4503.73	884.28 S	4429.34 E	32.71262071 N	103.86977335 W	4516.74@ 101.29	2.13
13186.00	88.72	99.14	8857.21	95.00	4598.61	899.58 S	4523.06 E	32.71257752 N	103.86946886 W	4611.65@ 101.25	0.79
13280.00	88.81	97.12	8859.23	94.00	4692.57	912.87 S	4616.09 E	32.71253987 N	103.86916659 W	4705.48@ 101.19	2.15
13375.00	88.99	97.12	8861.06	95.00	4787.55	924.65 S	4710.34 E	32.71250638 N	103.86886033 W	4800.23@ 101.11	0.19
13469.00	87.32	96.95	8864.08	94.00	4881.50	936.15 S	4803.58 E	32.71247363 N	103.86855735 W	4893.95@ 101.03	1.79
13563.00	86.70	96.95	8868.99	94.00	4975.37	947.51 S	4896.76 E	32.71244129 N	103.86825456 W	4987.59@ 100.95	0.66
13658.00	86.26	96.42	8874.82	95.00	5070.19	958.55 S	4990.93 E	32.71240981 N	103.86794853 W	5082.15@ 100.87	0.72

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 SARGAS "28" FED COM #4H
 EDDY COUNTY, NM
 API#: 30-015-41560 Rig: H & P 300

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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)
13752.00	86.88	95.10	8880.44	94.00	5164.00	967.97 S	5084.29 E	32.71238280 N	103.86764515 W	5175.61@	100.78	1.55
13779.00	87.14	95.36	8881.85	27.00	5190.95	970.42 S	5111.14 E	32.71237572 N	103.86755788 W	5202.45@	100.75	1.36
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 13860' MD.												
13860.00	87.14	95.36	8885.89	81.00	5271.82	977.98 S	5191.69 E	32.71235398 N	103.86729612 W	5283.00@	100.67	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 – 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.