

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

PATHFINDER
A Schlumberger Company
HOBBS OCD

JUN 01 2015

RECEIVED

DIRECTIONAL SURVEY REPORT

DEVON ENERGY PRODUCTION CO., L.P.

WEISSBEIR 23 #001H

LEA COUNTY, NEW MEXICO

30-025-41715

PREPARED BY: MARK TRAHAN

JUN 08 2015

3329 W. Pinhook Rd.
Lafayette, LA 70508-3506, USA
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HOBBS OCD

November 20, 2014

JUN 01 2015

DEVON ENERGY PRODUCTION CO.
Ms. Judy Barnett
Regulatory Compliance Professional
333 West Sheridan
Oklahoma City, OK 73102

RECEIVED

RE: DEVON ENERGY PRODUCTION CO., L.P.
WEISSBEIR 23 #001H
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41715
FILE NO.: 14LAF0306

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 "MT".

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) DERICK RICHARD
3. POSITION OF SAID PERSON(S): (A) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 10/20/14 TO 10/31/14
5. STATE IN WHICH SURVEY WAS PERFORMED: NEW MEXICO
6. LOCATION OF WELL: LEA COUNTY
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

DEVON ENERGY PRODUCTION CO., L.P.
WEISSBEIR 23 #001H
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41715

9. SURVEY CERTIFIED FROM: 8,440 TO 14,301 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 5,247.95 FEET ON A BEARING OF 185.96 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A PROJECTED TO BIT DEPTH OF 14,301 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



HOBBS OCD

JUN 01 2015

STATE OF LOUISIANA
PARISH OF LAFAYETTE

RECEIVED

I, **Derick Richard**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **10/20/14** through **10/31/14** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8,440 feet to a depth of 14,301 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 **Weissbeir 23 #001H** Well API No. **30-025-41715** in **Lea 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.

A handwritten signature in black ink, appearing to be "Derick Richard", written over a horizontal line.

PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

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Tie-in Date: 10/20/2014

Date Completed: 10/31/2014

DEVON ENERGY PRODUCTION COMPANY, LP
WEISSBEIR 23 #001H
LEA COUNTY, NM
API#: 30-025-41715 Rig: PATTERSON 228
PathFinder Office Supervisor: MARK TRAHAN
PathFinder Field Engineers:DERICK RICHARD

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.49.41.5704 N LON:103.13.4.5518 W
GRID Reference:NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 883963.8100 Y: 666845.2500
North Aligned To:GRID NORTH
Total Magnetic Correction: 6.44° EAST TO GRID
Vertical Section Plane: 186.20
Survey Vert. Reference: 26.60' Rotary Table To Ground
Altitude:3728.70' Ground To MSL

Measured Depth	14301.00	(feet)
Inclination	92.24	(deg)
Azimuth	181.15	(deg)
True Vertical Depth	9296.06	(feet)
Vertical Section	5247.90	(feet)
Survey X cord	883418.63	(feet)
Survey Y cord	661625.70	(feet)
Survey Lat	32.81388581 N	(deg)
Survey Lon	103.21988452 W	(deg)
Rectangular Corr. N/S	5219.55 S	(feet)
Rectangular Corr. E/W	545.18 W	(feet)
Closure Distance	5247.95	(feet)
Direction of Closure	185.96	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
WEISSBEIR 23 #001H

LEA COUNTY, NM

API#: 30-025-41715 Rig: PATTERSON 228

PathFinder Office Supervisor: MARK TRAHAN

PathFinder Field Engineers: DERICK RICHARD

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.49.41.5704 N LON: 103.13.4.5518 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 883963.8100 Y: 666845.2500

North Aligned To: GRID NORTH

Total Magnetic Correction: 6.44° EAST TO GRID

Vertical Section Plane: 186.20

Survey Vert. Reference: 26.60' Rotary Table To Ground

Altitude: 3728.70' Ground To MSL

Survey Calculations by RX5 V7.01 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 EXTREME ENGINEERING GYRO SURVEYS.												
0.00	0.00	0.00	-0.00	0.00	0.43	0.46 S	0.25 E	32.82821274 N	103.21793023 W	0.52@	150.77	0.00
268.00	0.30	44.08	268.00	268.00	-0.13	0.05 N	0.74 E	32.82821411 N	103.21792863 W	0.74@	86.26	0.11
337.00	0.62	42.16	336.99	69.00	-0.57	0.46 N	1.12 E	32.82821521 N	103.21792739 W	1.21@	67.87	0.46
448.00	0.31	93.80	447.99	111.00	-1.07	0.88 N	1.82 E	32.82821636 N	103.21792508 W	2.02@	64.21	0.44
460.00	0.62	34.69	459.99	12.00	-1.13	0.93 N	1.89 E	32.82821650 N	103.21792486 W	2.11@	63.78	4.43
538.00	0.48	51.88	537.99	78.00	-1.73	1.48 N	2.39 E	32.82821799 N	103.21792322 W	2.81@	58.21	0.28
627.00	0.22	115.86	626.98	89.00	-1.93	1.64 N	2.84 E	32.82821841 N	103.21792176 W	3.27@	60.02	0.48
718.00	0.40	125.58	717.98	91.00	-1.72	1.37 N	3.25 E	32.82821768 N	103.21792042 W	3.53@	67.08	0.21
808.00	0.31	211.09	807.98	90.00	-1.34	0.98 N	3.38 E	32.82821660 N	103.21792001 W	3.52@	73.78	0.54
898.00	0.88	213.37	897.98	90.00	-0.51	0.20 N	2.87 E	32.82821446 N	103.21792168 W	2.88@	86.06	0.63
989.00	0.40	203.27	988.97	91.00	0.42	0.68 S	2.37 E	32.82821206 N	103.21792337 W	2.46@	105.98	0.54
1080.00	0.62	186.79	1079.97	91.00	1.21	1.46 S	2.18 E	32.82820992 N	103.21792399 W	2.62@	123.76	0.29
1173.00	0.40	209.07	1172.96	93.00	2.02	2.24 S	1.96 E	32.82820778 N	103.21792473 W	2.98@	138.77	0.31
1263.00	0.40	193.99	1262.96	90.00	2.62	2.82 S	1.74 E	32.82820619 N	103.21792549 W	3.31@	148.40	0.12
1356.00	0.31	225.20	1355.96	93.00	3.13	3.31 S	1.48 E	32.82820485 N	103.21792635 W	3.63@	155.95	0.23
1447.00	0.62	191.38	1446.96	91.00	3.82	3.97 S	1.21 E	32.82820305 N	103.21792725 W	4.15@	163.09	0.44
1515.00	0.70	216.58	1514.95	68.00	4.54	4.66 S	0.89 E	32.82820115 N	103.21792832 W	4.75@	169.24	0.44
1537.00	1.19	99.86	1536.95	22.00	4.67	4.81 S	1.03 E	32.82820074 N	103.21792785 W	4.92@	167.90	7.41
1631.00	1.01	193.08	1630.94	94.00	5.56	5.78 S	1.81 E	32.82819804 N	103.21792537 W	6.06@	162.66	1.71
1632.00	1.01	199.18	1631.94	1.00	5.57	5.80 S	1.80 E	32.82819800 N	103.21792538 W	6.07@	162.75	10.75
1725.00	1.01	195.58	1724.93	93.00	7.18	7.37 S	1.31 E	32.82819372 N	103.21792703 W	7.48@	169.90	0.07
1822.00	1.01	199.27	1821.91	97.00	8.86	9.00 S	0.80 E	32.82818925 N	103.21792875 W	9.03@	174.92	0.07
1856.00	1.19	235.08	1855.90	34.00	9.38	9.48 S	0.41 E	32.82818793 N	103.21793003 W	9.49@	177.52	2.05
1918.00	0.79	187.97	1917.90	62.00	10.23	10.27 S	0.18 W	32.82818577 N	103.21793197 W	10.27@	180.98	1.41
2011.00	0.70	220.36	2010.89	93.00	11.34	11.34 S	0.63 W	32.82818285 N	103.21793349 W	11.36@	183.19	0.46

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 WEISSBEIR 23 #001H
 LEA COUNTY, NM
 API#: 30-025-41715 Rig: PATTERSON 228

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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 (ft)	Dir (deg)	DLS (dg/100ft)
2105.00	0.79	255.77	2104.88	94.00	12.04	11.94 S	1.63 W	32.82818124 N	103.21793677 W	12.05@	187.79	0.49
2156.00	0.70	250.20	2155.88	51.00	12.30	12.13 S	2.27 W	32.82818073 N	103.21793884 W	12.34@	190.58	0.23
2242.00	0.62	339.28	2241.87	86.00	12.12	11.87 S	2.93 W	32.82818145 N	103.21794097 W	12.23@	193.84	1.08
2336.00	0.62	264.57	2335.87	94.00	11.77	11.44 S	3.61 W	32.82818265 N	103.21794319 W	12.00@	197.51	0.80
2428.00	0.62	238.47	2427.86	92.00	12.17	11.75 S	4.53 W	32.82818183 N	103.21794620 W	12.60@	201.09	0.30
2429.00	0.70	263.68	2428.86	1.00	12.18	11.76 S	4.54 W	32.82818182 N	103.21794623 W	12.60@	201.13	29.84
2521.00	0.70	262.90	2520.86	92.00	12.43	11.89 S	5.66 W	32.82818149 N	103.21794987 W	13.16@	205.46	0.01
2613.00	0.70	242.99	2612.85	92.00	12.87	12.21 S	6.72 W	32.82818063 N	103.21795333 W	13.94@	208.81	0.26
2807.00	0.70	339.98	2806.84	194.00	12.45	11.64 S	8.18 W	32.82818225 N	103.21795806 W	14.22@	215.10	0.54
2900.00	0.62	255.78	2899.84	93.00	12.12	11.23 S	8.86 W	32.82818340 N	103.21796027 W	14.30@	218.28	0.95
2994.00	0.70	275.47	2993.83	94.00	12.30	11.30 S	9.92 W	32.82818324 N	103.21796374 W	15.04@	221.30	0.25
3087.00	0.70	257.36	3086.82	93.00	12.49	11.37 S	11.04 W	32.82818308 N	103.21796738 W	15.85@	224.18	0.24
3182.00	0.48	234.47	3181.82	95.00	12.94	11.72 S	11.93 W	32.82818212 N	103.21797029 W	16.73@	225.51	0.34
3276.00	0.79	270.20	3275.81	94.00	13.27	11.95 S	12.90 W	32.82818153 N	103.21797345 W	17.59@	227.19	0.52
3371.00	0.40	235.79	3370.81	95.00	13.56	12.14 S	13.83 W	32.82818105 N	103.21797648 W	18.40@	228.74	0.54
3464.00	0.70	237.19	3463.80	93.00	14.13	12.63 S	14.58 W	32.82817972 N	103.21797893 W	19.29@	229.11	0.32
3560.00	0.40	266.46	3559.80	96.00	14.55	12.96 S	15.41 W	32.82817881 N	103.21798163 W	20.13@	229.92	0.42
3596.00	0.48	261.49	3595.80	36.00	14.61	12.99 S	15.68 W	32.82817874 N	103.21798253 W	20.36@	230.35	0.25
3668.00	0.31	66.86	3667.80	72.00	14.59	12.96 S	15.80 W	32.82817883 N	103.21798292 W	20.44@	230.63	1.09
3762.00	0.22	229.46	3761.80	94.00	14.60	12.98 S	15.70 W	32.82817878 N	103.21798260 W	20.37@	230.42	0.56
3857.00	0.09	44.36	3856.80	95.00	14.67	13.04 S	15.79 W	32.82817860 N	103.21798288 W	20.48@	230.44	0.33
3950.00	0.09	336.07	3949.80	93.00	14.55	12.93 S	15.77 W	32.82817893 N	103.21798281 W	20.39@	230.66	0.11
4044.00	0.40	10.39	4043.80	94.00	14.16	12.54 S	15.74 W	32.82818000 N	103.21798270 W	20.12@	231.46	0.35
4139.00	0.62	359.10	4138.79	95.00	13.32	11.70 S	15.69 W	32.82818231 N	103.21798251 W	19.57@	233.29	0.25
4172.00	0.48	349.87	4171.79	33.00	13.01	11.38 S	15.71 W	32.82818317 N	103.21798258 W	19.40@	234.09	0.50
4233.00	0.40	342.97	4232.79	61.00	12.57	10.93 S	15.82 W	32.82818443 N	103.21798292 W	19.23@	235.37	0.16
4327.00	0.31	1.07	4326.79	94.00	12.02	10.36 S	15.91 W	32.82818599 N	103.21798319 W	18.99@	236.94	0.15
4421.00	0.31	338.49	4420.79	94.00	11.54	9.87 S	16.00 W	32.82818734 N	103.21798347 W	18.80@	238.34	0.13

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 WEISSBEIR 23 #001H
 LEA COUNTY, NM
 API#: 30-025-41715 Rig: PATTERSON 228

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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)
4514.00	0.09	40.10	4513.78	93.00	11.25	9.58 S	16.05 W	32.82818814 N	103.21798360 W	18.69@	239.17	0.30
4608.00	0.00	309.97	4607.79	94.00	11.19	9.52 S	16.00 W	32.82818830 N	103.21798345 W	18.62@	239.24	0.10
4701.00	0.22	314.58	4700.78	93.00	11.08	9.40 S	16.13 W	32.82818864 N	103.21798386 W	18.66@	239.77	0.24
4888.00	0.31	264.48	4887.78	187.00	10.96	9.19 S	16.89 W	32.82818922 N	103.21798632 W	19.22@	241.44	0.13
4979.00	0.48	303.77	4978.78	91.00	10.84	9.00 S	17.45 W	32.82818976 N	103.21798814 W	19.63@	242.70	0.34
5073.00	0.62	284.87	5072.78	94.00	10.58	8.65 S	18.27 W	32.82819074 N	103.21799080 W	20.21@	244.65	0.24
5145.00	0.62	287.69	5144.77	72.00	10.44	8.44 S	19.01 W	32.82819136 N	103.21799322 W	20.80@	246.07	0.04
5243.00	0.70	300.39	5242.77	98.00	10.09	7.97 S	20.03 W	32.82819267 N	103.21799653 W	21.56@	248.30	0.17
5337.00	1.01	307.46	5336.76	94.00	9.42	7.18 S	21.19 W	32.82819488 N	103.21800026 W	22.37@	251.29	0.35
5430.00	1.32	310.98	5429.74	93.00	8.39	5.98 S	22.65 W	32.82819823 N	103.21800496 W	23.42@	255.22	0.34
5524.00	1.49	321.00	5523.71	94.00	6.91	4.32 S	24.23 W	32.82820283 N	103.21801007 W	24.62@	259.90	0.32
5619.00	1.41	323.68	5618.68	95.00	5.18	2.42 S	25.70 W	32.82820810 N	103.21801479 W	25.82@	264.63	0.11
5713.00	1.58	335.98	5712.65	94.00	3.20	0.30 S	26.92 W	32.82821395 N	103.21801866 W	26.92@	269.36	0.39
5807.00	1.89	338.79	5806.60	94.00	0.71	2.33 N	28.00 W	32.82822121 N	103.21802212 W	28.10@	274.75	0.34
5902.00	1.89	341.56	5901.55	95.00	-2.11	5.28 N	29.07 W	32.82822934 N	103.21802547 W	29.54@	280.29	0.10
5996.00	2.02	340.07	5995.50	94.00	-5.00	8.30 N	30.12 W	32.82823769 N	103.21802880 W	31.25@	285.41	0.15
6090.00	2.11	342.97	6089.43	94.00	-8.08	11.52 N	31.19 W	32.82824655 N	103.21803218 W	33.25@	290.26	0.15
6186.00	2.11	343.76	6185.37	96.00	-11.34	14.90 N	32.20 W	32.82825588 N	103.21803536 W	35.49@	294.83	0.03
6280.00	2.02	347.67	6279.31	94.00	-14.51	18.18 N	33.04 W	32.82826492 N	103.21803797 W	37.71@	298.82	0.18
6373.00	2.29	345.08	6372.24	93.00	-17.79	21.58 N	33.87 W	32.82827428 N	103.21804055 W	40.16@	302.50	0.31
6467.00	2.50	347.67	6466.16	94.00	-21.49	25.40 N	34.79 W	32.82828480 N	103.21804342 W	43.08@	306.13	0.25
6561.00	2.59	341.56	6560.07	94.00	-25.36	29.41 N	35.90 W	32.82829587 N	103.21804689 W	46.41@	309.33	0.30
6656.00	2.42	342.27	6654.98	95.00	-29.15	33.36 N	37.19 W	32.82830675 N	103.21805095 W	49.96@	311.89	0.18
6749.00	2.02	338.09	6747.91	93.00	-32.39	36.75 N	38.40 W	32.82831611 N	103.21805477 W	53.15@	313.74	0.46
6843.00	1.49	342.66	6841.86	94.00	-34.97	39.46 N	39.38 W	32.82832356 N	103.21805788 W	55.75@	315.05	0.58
6936.00	1.10	330.09	6934.84	93.00	-36.80	41.38 N	40.19 W	32.82832889 N	103.21806043 W	57.69@	315.84	0.52
7028.00	1.01	331.59	7026.82	92.00	-38.18	42.86 N	41.02 W	32.82833297 N	103.21806307 W	59.32@	316.26	0.10
7123.00	1.01	327.98	7121.81	95.00	-39.53	44.31 N	41.86 W	32.82833697 N	103.21806576 W	60.95@	316.63	0.07

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION COMPANY, LP
 WEISSBEIR 23 #001H
 LEA COUNTY, NM
 API#: 30-025-41715 Rig: PATTERSON 228

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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)
7218.00	0.62	313.57	7216.80	95.00	-40.50	45.37 N	42.67 W	32.82833992 N	103.21806839 W	62.29@	316.76	0.46
7311.00	0.40	292.48	7309.80	93.00	-40.89	45.84 N	43.34 W	32.82834123 N	103.21807053 W	63.09@	316.61	0.31
7405.00	0.40	303.46	7403.79	94.00	-41.14	46.15 N	43.92 W	32.82834209 N	103.21807240 W	63.70@	316.42	0.08
7499.00	0.22	266.20	7497.79	94.00	-41.26	46.32 N	44.37 W	32.82834257 N	103.21807387 W	64.14@	316.23	0.28
7594.00	0.22	294.76	7592.79	95.00	-41.28	46.38 N	44.72 W	32.82834276 N	103.21807500 W	64.43@	316.05	0.11
7689.00	0.40	292.56	7687.79	95.00	-41.43	46.59 N	45.19 W	32.82834333 N	103.21807653 W	64.90@	315.87	0.19
7779.00	0.88	299.38	7777.78	90.00	-41.79	47.05 N	46.08 W	32.82834462 N	103.21807942 W	65.85@	315.59	0.54
7875.00	1.49	306.98	7873.76	96.00	-42.72	48.16 N	47.72 W	32.82834772 N	103.21808472 W	67.80@	315.26	0.65
7969.00	2.11	311.37	7967.72	94.00	-44.35	50.04 N	50.00 W	32.82835295 N	103.21809206 W	70.73@	315.02	0.68
8063.00	2.50	317.57	8061.64	94.00	-46.70	52.69 N	52.68 W	32.82836033 N	103.21810069 W	74.51@	315.01	0.49
8157.00	2.81	325.26	8155.54	94.00	-49.79	56.10 N	55.37 W	32.82836977 N	103.21810935 W	78.83@	315.37	0.50
8252.00	2.81	328.77	8250.43	95.00	-53.40	60.01 N	57.91 W	32.82838058 N	103.21811747 W	83.39@	316.02	0.18
8347.00	2.68	329.48	8345.32	95.00	-57.03	63.91 N	60.24 W	32.82839137 N	103.21812493 W	87.83@	316.69	0.14
** TIED INTO EXTREME ENGINEERING GYRO SURVEYS AT 8440'MD.												
8440.00	2.81	332.77	8438.21	93.00	-60.68	67.81 N	62.39 W	32.82840215 N	103.21813179 W	92.15@	317.38	0.22
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
8507.00	2.43	330.84	8505.14	67.00	-63.20	70.51 N	63.83 W	32.82840962 N	103.21813640 W	95.11@	317.85	0.58
8529.00	2.75	336.58	8527.12	22.00	-64.04	71.40 N	64.27 W	32.82841208 N	103.21813779 W	96.07@	318.01	1.87
8561.00	2.66	322.85	8559.08	32.00	-65.25	72.70 N	65.02 W	32.82841566 N	103.21814020 W	97.54@	318.19	2.04
8592.00	4.19	287.22	8590.03	31.00	-65.99	73.61 N	66.54 W	32.82841821 N	103.21814510 W	99.23@	317.89	8.23
8623.00	8.09	267.83	8620.85	31.00	-65.89	73.86 N	69.80 W	32.82841900 N	103.21815571 W	101.63@	316.62	14.08
8655.00	11.67	259.10	8652.37	32.00	-64.61	73.16 N	75.23 W	32.82841724 N	103.21817341 W	104.94@	314.20	12.10
8686.00	13.66	256.41	8682.61	31.00	-62.45	71.71 N	81.87 W	32.82841344 N	103.21819506 W	108.84@	311.21	6.69
8717.00	15.41	250.94	8712.62	31.00	-59.45	69.50 N	89.32 W	32.82840759 N	103.21821940 W	113.18@	307.89	7.17
8748.00	17.46	242.80	8742.36	31.00	-55.13	66.03 N	97.35 W	32.82839828 N	103.21824566 W	117.64@	304.15	9.93
8780.00	19.97	234.08	8772.67	32.00	-48.82	60.63 N	106.05 W	32.82838369 N	103.21827415 W	122.16@	299.76	11.73
8811.00	22.73	225.94	8801.55	31.00	-40.66	53.36 N	114.65 W	32.82836395 N	103.21830238 W	126.45@	294.96	13.04
8842.00	24.94	221.09	8829.90	31.00	-30.69	44.26 N	123.25 W	32.82833921 N	103.21833069 W	130.96@	289.76	9.52
8873.00	27.49	217.55	8857.71	31.00	-19.22	33.66 N	131.91 W	32.82831033 N	103.21835923 W	136.13@	284.32	9.65

PathFinder – a Schlumberger company

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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)
8905.00	30.79	215.03	8885.66	32.00	-5.73	21.10 N	141.11 W	32.82827607 N	103.21838963 W	142.68@	278.50	11.00
8936.00	34.18	213.01	8911.81	31.00	8.99	7.29 N	150.41 W	32.82823840 N	103.21842038 W	150.59@	272.78	11.48
8967.00	37.30	211.66	8936.97	31.00	25.25	8.01 S	160.09 W	32.82819663 N	103.21845240 W	160.29@	267.14	10.38
8999.00	40.14	209.61	8961.93	32.00	43.47	25.23 S	170.28 W	32.82814959 N	103.21848615 W	172.14@	261.57	9.74
9030.00	42.23	206.40	8985.26	31.00	62.43	43.25 S	179.85 W	32.82810034 N	103.21851792 W	184.98@	256.48	9.59
9062.00	43.63	202.68	9008.70	32.00	83.11	63.08 S	188.89 W	32.82804613 N	103.21854803 W	199.14@	251.53	9.04
9093.00	45.91	201.73	9030.70	31.00	104.09	83.29 S	197.14 W	32.82799082 N	103.21857556 W	214.01@	247.10	7.66
9125.00	48.72	201.07	9052.40	32.00	126.79	105.19 S	205.71 W	32.82793089 N	103.21860424 W	231.05@	242.92	8.91
9156.00	51.85	199.91	9072.20	31.00	149.90	127.53 S	214.06 W	32.82786975 N	103.21863216 W	249.16@	239.22	10.50
9187.00	55.69	198.77	9090.52	31.00	174.25	151.12 S	222.33 W	32.82780515 N	103.21865990 W	268.82@	235.80	12.74
9219.00	58.98	197.73	9107.79	32.00	200.59	176.70 S	230.76 W	32.82773510 N	103.21868822 W	290.64@	232.56	10.64
9250.00	61.49	196.76	9123.18	31.00	227.00	202.40 S	238.73 W	32.82766470 N	103.21871505 W	312.98@	229.71	8.54
9281.00	63.61	196.01	9137.47	31.00	254.07	228.79 S	246.49 W	32.82759240 N	103.21874121 W	336.31@	227.13	7.17
9313.00	65.95	195.70	9151.10	32.00	282.61	256.64 S	254.40 W	32.82751611 N	103.21876791 W	361.36@	224.75	7.37
9344.00	68.22	195.36	9163.17	31.00	310.78	284.15 S	262.04 W	32.82744073 N	103.21879373 W	386.53@	222.68	7.39
9375.00	70.62	194.98	9174.07	31.00	339.45	312.15 S	269.64 W	32.82736398 N	103.21881941 W	412.49@	220.82	7.83
9407.00	72.98	194.12	9184.06	32.00	369.52	341.58 S	277.27 W	32.82728334 N	103.21884527 W	439.95@	219.07	7.80
9438.00	75.39	194.10	9192.51	31.00	399.06	370.50 S	284.54 W	32.82720407 N	103.21886993 W	467.16@	217.52	7.77
9469.00	77.56	192.79	9199.76	31.00	428.96	399.81 S	291.55 W	32.82712372 N	103.21889373 W	494.82@	216.10	8.12
9501.00	79.54	192.05	9206.11	32.00	460.14	430.44 S	298.29 W	32.82703974 N	103.21891674 W	523.70@	214.72	6.59
9532.00	81.12	189.88	9211.32	31.00	490.59	460.44 S	304.10 W	32.82695747 N	103.21893668 W	551.80@	213.44	8.58
9563.00	83.19	188.37	9215.55	31.00	521.26	490.76 S	308.97 W	32.82687429 N	103.21895357 W	579.92@	212.19	8.24
9657.00	85.96	186.63	9224.44	94.00	614.80	583.52 S	321.18 W	32.82661971 N	103.21899649 W	666.08@	208.83	3.48
9751.00	86.97	185.10	9230.24	94.00	708.61	676.85 S	330.77 W	32.82636352 N	103.21903090 W	753.35@	206.04	1.95
9844.00	87.53	183.20	9234.70	93.00	801.44	769.49 S	337.49 W	32.82610911 N	103.21905596 W	840.25@	203.68	2.13
9938.00	88.43	183.25	9238.01	94.00	895.26	863.29 S	342.77 W	32.82585152 N	103.21907638 W	928.85@	201.66	0.96
10032.00	88.60	181.87	9240.45	94.00	989.03	957.16 S	346.97 W	32.82559366 N	103.21909326 W	1018.11@	199.93	1.48
10126.00	88.32	181.86	9242.97	94.00	1082.73	1051.08 S	350.03 W	32.82533566 N	103.21910643 W	1107.83@	198.42	0.30

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10220.00	87.98	182.04	9246.01	94.00	1176.42	1144.97 S	353.23 W	32.82507771 N	103.21912006 W	1198.22@	197.15	0.41
10315.00	88.04	182.26	9249.31	95.00	1271.13	1239.85 S	356.79 W	32.82481709 N	103.21913491 W	1290.16@	196.05	0.24
10409.00	87.70	182.50	9252.80	94.00	1364.85	1333.70 S	360.69 W	32.82455928 N	103.21915083 W	1381.61@	195.13	0.44
10503.00	88.82	181.94	9255.65	94.00	1458.58	1427.59 S	364.33 W	32.82430138 N	103.21916589 W	1473.34@	194.32	1.33
10597.00	88.93	181.95	9257.50	94.00	1552.31	1521.51 S	367.52 W	32.82404335 N	103.21917950 W	1565.27@	193.58	0.12
10691.00	88.76	181.96	9259.39	94.00	1646.03	1615.44 S	370.72 W	32.82378532 N	103.21919316 W	1657.43@	192.92	0.18
10785.00	88.71	182.17	9261.47	94.00	1739.76	1709.36 S	374.11 W	32.82352732 N	103.21920740 W	1749.82@	192.35	0.23
10879.00	88.49	182.33	9263.77	94.00	1833.51	1803.25 S	377.80 W	32.82326938 N	103.21922263 W	1842.41@	191.83	0.29
10973.00	88.26	182.25	9266.43	94.00	1927.25	1897.14 S	381.55 W	32.82301148 N	103.21923807 W	1935.13@	191.37	0.26
11067.00	88.99	182.04	9268.69	94.00	2020.99	1991.05 S	385.07 W	32.82275351 N	103.21925274 W	2027.94@	190.95	0.81
11161.00	88.71	182.12	9270.57	94.00	2114.73	2084.97 S	388.48 W	32.82249551 N	103.21926706 W	2120.85@	190.55	0.31
11255.00	88.76	182.36	9272.65	94.00	2208.48	2178.87 S	392.16 W	32.82223756 N	103.21928224 W	2213.88@	190.20	0.26
11348.00	88.49	182.42	9274.88	93.00	2301.25	2271.76 S	396.03 W	32.82198239 N	103.21929805 W	2306.03@	189.89	0.30
11442.00	88.21	182.70	9277.59	94.00	2395.02	2365.63 S	400.23 W	32.82172455 N	103.21931492 W	2399.25@	189.60	0.42
11536.00	88.20	182.55	9280.53	94.00	2488.79	2459.49 S	404.53 W	32.82146675 N	103.21933215 W	2492.53@	189.34	0.16
11630.00	88.20	182.46	9283.49	94.00	2582.55	2553.35 S	408.64 W	32.82120892 N	103.21934873 W	2585.84@	189.09	0.10
11724.00	87.76	183.38	9286.80	94.00	2676.34	2647.17 S	413.42 W	32.82095123 N	103.21936753 W	2679.26@	188.88	1.08
11817.00	87.42	183.68	9290.71	93.00	2769.15	2739.91 S	419.15 W	32.82069653 N	103.21938933 W	2771.78@	188.70	0.49
11911.00	87.53	183.43	9294.85	94.00	2862.96	2833.64 S	424.97 W	32.82043913 N	103.21941149 W	2865.33@	188.53	0.29
12005.00	88.65	183.45	9297.98	94.00	2956.80	2927.42 S	430.61 W	32.82018158 N	103.21943306 W	2958.92@	188.37	1.19
12099.00	88.15	183.70	9300.61	94.00	3050.66	3021.20 S	436.46 W	32.81992403 N	103.21945534 W	3052.56@	188.22	0.59
12193.00	88.82	183.30	9303.09	94.00	3144.52	3114.99 S	442.20 W	32.81966645 N	103.21947723 W	3146.22@	188.08	0.83
12287.00	89.89	182.97	9304.15	94.00	3238.38	3208.84 S	447.34 W	32.81940868 N	103.21949718 W	3239.87@	187.94	1.19
12381.00	91.23	182.79	9303.23	94.00	3332.22	3302.71 S	452.06 W	32.81915084 N	103.21951577 W	3333.51@	187.79	1.44
12475.00	90.78	183.06	9301.58	94.00	3426.05	3396.58 S	456.86 W	32.81889303 N	103.21953460 W	3427.16@	187.66	0.56
12569.00	90.89	183.03	9300.21	94.00	3519.90	3490.43 S	461.85 W	32.81863524 N	103.21955406 W	3520.86@	187.54	0.12
12663.00	90.95	183.58	9298.70	94.00	3613.76	3584.26 S	467.27 W	32.81837754 N	103.21957492 W	3614.59@	187.43	0.59
12757.00	90.95	183.56	9297.15	94.00	3707.65	3678.07 S	473.12 W	32.81811992 N	103.21959718 W	3708.37@	187.33	0.02

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12851.00	90.95	183.76	9295.59	94.00	3801.55	3771.86 S	479.12 W	32.81786233 N	103.21961992 W	3802.17@	187.24	0.21
12945.00	90.89	184.14	9294.08	94.00	3895.46	3865.63 S	485.60 W	32.81760484 N	103.21964421 W	3896.01@	187.16	0.41
13039.00	91.01	184.46	9292.52	94.00	3989.40	3959.35 S	492.64 W	32.81734749 N	103.21967036 W	3989.88@	187.09	0.36
13133.00	90.67	185.44	9291.14	94.00	4083.36	4052.99 S	500.75 W	32.81709039 N	103.21969996 W	4083.81@	187.04	1.10
13227.00	89.32	185.16	9291.15	94.00	4177.35	4146.59 S	509.44 W	32.81683343 N	103.21973143 W	4177.76@	187.00	1.47
13319.00	88.59	183.81	9292.83	92.00	4269.29	4238.29 S	516.63 W	32.81658163 N	103.21975798 W	4269.66@	186.95	1.67
13413.00	88.38	182.56	9295.31	94.00	4363.13	4332.11 S	521.85 W	32.81632395 N	103.21977819 W	4363.42@	186.87	1.35
13507.00	88.04	182.03	9298.25	94.00	4456.86	4425.98 S	525.61 W	32.81606607 N	103.21979365 W	4457.08@	186.77	0.67
13601.00	88.55	181.70	9301.05	94.00	4550.55	4519.89 S	528.67 W	32.81580809 N	103.21980682 W	4550.71@	186.67	0.65
13695.00	89.11	181.31	9302.97	94.00	4644.22	4613.84 S	531.14 W	32.81554999 N	103.21981808 W	4644.31@	186.57	0.73
13789.00	89.67	181.28	9303.97	94.00	4737.87	4707.81 S	533.26 W	32.81529180 N	103.21982821 W	4737.92@	186.46	0.60
13883.00	90.23	181.79	9304.05	94.00	4831.55	4801.78 S	535.78 W	32.81503364 N	103.21983963 W	4831.57@	186.37	0.81
13977.00	90.06	181.37	9303.81	94.00	4925.25	4895.74 S	538.37 W	32.81477550 N	103.21985128 W	4925.25@	186.28	0.48
14071.00	91.07	181.02	9302.88	94.00	5018.88	4989.71 S	540.33 W	32.81451730 N	103.21986088 W	5018.88@	186.18	1.14
14164.00	91.40	181.38	9300.88	93.00	5111.51	5082.67 S	542.28 W	32.81426190 N	103.21987041 W	5111.52@	186.09	0.53
14237.00	92.24	181.15	9298.56	73.00	5184.20	5155.61 S	543.89 W	32.81406149 N	103.21987815 W	5184.22@	186.02	1.19
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 14301'MD.												
14301.00	92.24	181.15	9296.06	64.00	5247.90	5219.55 S	545.18 W	32.81388581 N	103.21988452 W	5247.95@	185.96	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.