

Results of Directional Survey

API number:	30-025-41373			
OGRID:		Operator:	DEVON ENERGY PRODUCTION COMPANY, LP	
		Property:	GUADALCANAL STATE COM	# 1H

surface	ULSTR:	M	25	T 17S	R 36E
			200 FSL	360 FWL	

BH Loc	ULSTR:	D	25	T 17S	R 36E
13256	MD	8640.8	TVD	235 FNL	377 FWL
			5045 FSL		

Top Perf/OH	ULSTR:	M	25	T 17S	R 36E
8846	MD	8682.3	TVD	644 FSL	512 FWL

Bot Perf/OH	ULSTR:	D	25	T 17S	R 36E
13167	MD	8644.2	TVD	324 FNL	380 FWL
			4956 FSL		

	MD	N/S	E/W	VD
	8834	432.84	151.77	8678.25
TOP PERFS/OH	8846	444.13	151.74	8682.32
	8866	462.94	151.68	8689.10
	13084	4672.71	22.57	8647.17
BOT PERFS/OH	13167	4755.61	19.93	8644.19
	13178	4766.60	19.58	8643.79

NEXT TO LAST	13202	4790.57	18.81	8642.87
LAST READING	13256	4844.50	17.08	8640.76
TD	13256	4844.50	17.08	8640.76

Surface Location	200	FS	360	FW
Projected BHL	5045	FS	377	FW
Location of				
Top Perfs/OH	644	FS	512	FW
Bottom Perfs/OH	4956	FS	380	FW

SUMMARY of Subsurface Locations

Surface Location	M-25-17S-36E	200	FS	360	FW	Vert. Depth
Top Perfs/OH	M-25-17S-36E	644	FS	512	FW	8682.32
Bottom Perfs/OH	D-25-17S-36E	4956	FS	380	FW	8644.19
Projected TD	D-25-17S-36E	5045	FS	377	FW	8640.76

PathFinder

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.
GUADALCANAL STATE COM #1H
LEA COUNTY, NEW MEXICO

HOBBS OCD

SEP 24 2014

RECEIVED

PREPARED BY: MARK TRAHAN

PathFinder

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



May 29, 2014

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

RE: DEVON ENERGY PRODUCTION CO., L.P.
GUADALCANAL STATE COM #1H
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41373
FILE NO.: 14LAF0045

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

PathFinder

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Lafayette, LA 70508-3506, USA
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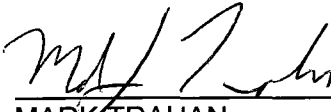


DIRECTIONAL SURVEY COMPANY REPORT:

1. SURVEYING COMPANY: PATHFINDER, A SCHLUMBERGER COMPANY
2. NAME OF PERSON(S) PERFORMING SURVEY:
A) DERIK RICHARD
B) NICOLAS MERCADO
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 05/09/14 TO 05/19/14
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.
GUADALCANAL STATE COM #1H
LEA COUNTY, NM
RIG: PATTERSON 228
API NO.: 30-025-41373
9. SURVEY CERTIFIED FROM: 8,051 TO 13,256 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 4,844.53 FEET ON A BEARING OF .20 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT A MEASURED DEPTH OF 13,256 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



MARK TRAHAN
M/LWD SERVICE COORDINATOR

PathFinder

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



STATE OF LOUISIANA
PARISH OF LAFAYETTE

I, **Derik Richard**, certify that; I am employed by PathFinder, a Schlumberger company; that I did on the day(s) of **05/09/14** through **05/19/14** conduct or supervise the taking of a **Measurement While Drilling** survey from a depth of **8,051 feet to a depth of 13,256 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 **Guadacanal State Com #1H** Well API No. **30-025-41373** 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 "Derik Richard", written over a horizontal line.

PathFinder Field Engineer

PathFinder – a Schlumberger company

BHL Report

Page 01/01
Tie-in Date: 05/09/2014
Date Completed: 05/19/2014

DEVON ENERGY PRODUCTION CO., L.P.
GUADALCANAL STATE COM #001H
LEA COUNTY, NM
API#: 30-025-41373 Rig: Patterson 228
PathFinder Office Supervisor: Mark Trahan
PathFinder Field Engineers: Derik Richard
Nicolas Mercado

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.47.57.0101 N LON: 103.18.55.3325 W
GRID Reference: NAD83 new mexico east Transverse Mercator
Ref GRID Coord: X: 854133.1100 Y: 655975.5800
North Aligned To: GRID NORTH
Total Magnetic Correction: 6.60° EAST TO GRID
Vertical Section Plane: 0.03
Survey Vert. Reference: 26.00' Rotary Table To Ground
Altitude: 3841.00' Ground To MSL

Measured Depth	13256.00	(feet)
Inclination	92.24	(deg)
Azimuth	358.16	(deg)
True Vertical Depth	8640.76	(feet)
Vertical Section	4844.51	(feet)
Survey X cord	854150.19	(feet)
Survey Y cord	660820.08	(feet)
Survey Lat	32.81248276 N	(deg)
Survey Lon	103.31516279 W	(deg)
Rectangular Corr. N/S	4844.50 N	(feet)
Rectangular Corr. E/W	17.08 E	(feet)
Closure Distance	4844.53	(feet)
Direction of Closure	0.20	(deg)
Dogleg Severity	0.00	(deg/100ft)

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO., L.P.

GUADALCANAL STATE COM #001H

LEA COUNTY, NM

API#: 30-025-41373 Rig: Patterson 228

PathFinder Office Supervisor: Mark Trahan

PathFinder Field Engineers: Derik Richard

Nicolas Mercado

Survey Horiz. Reference: WELLHEAD

Ref Coordinates: LAT: 32.47.57.0101 N LON: 103.18.55.3325 W

GRID Reference: NAD83 new mexico east Transverse Mercator

Ref GRID Coord: X: 854133.1100 Y: 655975.5800

North Aligned To: GRID NORTH

Total Magnetic Correction: 6.60° EAST To GRID

Vertical Section Plane: 0.03

Survey Vert. Reference: 26.00' Rotary Table To Ground

Altitude: 3841.00' Ground To MSL

Survey Calculations by RX5 V6.05A 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)	(deg)	(dg/100ft)
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 13256' MD.												
0.00	0.00	0.00	0.00	0.00	-0.91	0.91 S	0.61 E	32.79916694 N	103.31536819 W	1.10@	146.21	0.00
138.00	0.22	178.97	138.00	138.00	-1.17	1.18 S	0.61 E	32.79916622 N	103.31536818 W	1.33@	152.42	0.16
202.00	0.10	6.71	202.00	64.00	-1.24	1.24 S	0.62 E	32.79916603 N	103.31536816 W	1.39@	153.38	0.50
313.00	0.48	121.43	313.00	111.00	-1.39	1.39 S	1.03 E	32.79916562 N	103.31536683 W	1.73@	143.42	0.48
443.00	0.88	130.94	442.99	130.00	-2.33	2.33 S	2.25 E	32.79916301 N	103.31536290 W	3.24@	135.97	0.32
589.00	1.01	132.78	588.97	146.00	-3.93	3.94 S	4.04 E	32.79915854 N	103.31535712 W	5.64@	134.24	0.09
715.00	1.32	134.94	714.94	126.00	-5.71	5.72 S	5.88 E	32.79915360 N	103.31535118 W	8.20@	134.17	0.25
781.00	1.32	137.53	780.93	66.00	-6.81	6.81 S	6.93 E	32.79915055 N	103.31534779 W	9.72@	134.49	0.09
872.00	1.32	135.16	871.90	91.00	-8.32	8.33 S	8.38 E	32.79914635 N	103.31534313 W	11.82@	134.82	0.06
960.00	1.32	127.47	959.88	88.00	-9.66	9.66 S	9.90 E	32.79914264 N	103.31533823 W	13.84@	134.31	0.20
1054.00	1.41	121.67	1053.85	94.00	-10.92	10.93 S	11.74 E	32.79913911 N	103.31533227 W	16.04@	132.94	0.17
1132.00	1.50	117.32	1131.83	78.00	-11.90	11.90 S	13.47 E	32.79913639 N	103.31532669 W	17.97@	131.47	0.18
1265.00	1.50	113.93	1264.78	133.00	-13.40	13.41 S	16.61 E	32.79913217 N	103.31531653 W	21.34@	128.92	0.07
1357.00	1.71	111.87	1356.75	92.00	-14.40	14.41 S	18.98 E	32.79912936 N	103.31530884 W	23.83@	127.20	0.24
1449.00	1.80	112.66	1448.70	92.00	-15.46	15.48 S	21.59 E	32.79912636 N	103.31530038 W	26.56@	125.64	0.10
1509.00	1.80	113.84	1508.67	60.00	-16.21	16.22 S	23.32 E	32.79912427 N	103.31529477 W	28.40@	124.82	0.06
1604.00	1.58	115.95	1603.63	95.00	-17.38	17.40 S	25.86 E	32.79912097 N	103.31528654 W	31.17@	123.93	0.24
1699.00	1.49	114.33	1698.60	95.00	-18.46	18.48 S	28.16 E	32.79911794 N	103.31527908 W	33.68@	123.27	0.10
1792.00	1.19	113.84	1791.57	93.00	-19.35	19.37 S	30.15 E	32.79911544 N	103.31527265 W	35.83@	122.71	0.32
1883.00	1.10	114.86	1882.55	91.00	-20.10	20.12 S	31.81 E	32.79911334 N	103.31526728 W	37.63@	122.31	0.10
2081.00	0.88	73.63	2080.53	198.00	-20.47	20.49 S	34.99 E	32.79911224 N	103.31525693 W	40.55@	120.35	0.37
2170.00	0.88	83.04	2169.52	89.00	-20.19	20.21 S	36.32 E	32.79911296 N	103.31525258 W	41.57@	119.09	0.16
2265.00	1.32	86.16	2264.50	95.00	-20.03	20.05 S	38.14 E	32.79911335 N	103.31524667 W	43.09@	117.73	0.47

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO., L.P.
GUADALCANAL STATE COM #001H
LEA COUNTY, NM
API#: 30-025-41373 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)
2373.00	1.32	87.47	2372.47	108.00	-19.89	19.91 S	40.62 E	32.79911367 N	103.31523858 W	45.24@	116.11	0.03
2467.00	1.19	79.57	2466.45	94.00	-19.66	19.69 S	42.67 E	32.79911423 N	103.31523193 W	46.99@	114.77	0.23
2562.00	1.01	165.44	2561.43	95.00	-20.29	20.32 S	43.85 E	32.79911246 N	103.31522811 W	48.32@	114.86	1.58
2656.00	0.88	71.44	2655.43	94.00	-20.87	20.89 S	44.74 E	32.79911087 N	103.31522522 W	49.38@	115.03	1.47
2751.00	1.01	69.86	2750.41	95.00	-20.34	20.37 S	46.22 E	32.79911226 N	103.31522040 W	50.51@	113.78	0.14
2845.00	0.62	73.06	2844.40	94.00	-19.91	19.94 S	47.48 E	32.79911342 N	103.31521627 W	51.50@	112.78	0.42
2939.00	0.79	53.16	2938.40	94.00	-19.37	19.40 S	48.49 E	32.79911487 N	103.31521298 W	52.22@	111.81	0.31
3034.00	1.10	56.94	3033.38	95.00	-18.48	18.51 S	49.77 E	32.79911728 N	103.31520876 W	53.10@	110.40	0.33
3129.00	1.41	67.75	3128.36	95.00	-17.54	17.57 S	51.62 E	32.79911981 N	103.31520273 W	54.53@	108.80	0.41
3174.00	1.49	69.86	3173.35	45.00	-17.13	17.16 S	52.68 E	32.79912091 N	103.31519926 W	55.41@	108.04	0.21
3383.00	1.41	73.46	3382.28	209.00	-15.46	15.49 S	57.70 E	32.79912536 N	103.31518288 W	59.74@	105.03	0.06
3478.00	1.41	68.23	3477.25	95.00	-14.69	14.72 S	59.90 E	32.79912741 N	103.31517568 W	61.69@	103.81	0.14
3569.00	1.49	72.93	3568.22	91.00	-13.93	13.96 S	62.07 E	32.79912945 N	103.31516859 W	63.63@	102.68	0.16
3663.00	1.49	75.57	3662.19	94.00	-13.26	13.30 S	64.43 E	32.79913121 N	103.31516092 W	65.78@	101.66	0.07
3759.00	1.41	76.84	3758.16	96.00	-12.68	12.72 S	66.79 E	32.79913274 N	103.31515323 W	67.99@	100.78	0.09
3852.00	1.10	77.85	3851.14	93.00	-12.23	12.27 S	68.77 E	32.79913392 N	103.31514675 W	69.86@	100.12	0.33
3947.00	1.01	76.93	3946.12	95.00	-11.85	11.89 S	70.48 E	32.79913492 N	103.31514118 W	71.47@	99.57	0.10
4043.00	1.32	77.77	4042.10	96.00	-11.43	11.46 S	72.38 E	32.79913604 N	103.31513497 W	73.29@	99.00	0.32
4137.00	1.10	75.96	4136.08	94.00	-10.98	11.01 S	74.32 E	32.79913722 N	103.31512866 W	75.13@	98.43	0.24
4232.00	0.88	76.84	4231.07	95.00	-10.59	10.63 S	75.91 E	32.79913825 N	103.31512346 W	76.65@	97.97	0.23
4314.00	0.70	72.67	4313.06	82.00	-10.29	10.33 S	77.00 E	32.79913902 N	103.31511990 W	77.69@	97.64	0.23
4330.00	1.01	77.94	4329.06	16.00	-10.24	10.28 S	77.23 E	32.79913918 N	103.31511915 W	77.92@	97.58	2.00
4425.00	0.88	65.94	4424.04	95.00	-9.76	9.80 S	78.72 E	32.79914044 N	103.31511430 W	79.33@	97.10	0.25
4520.00	0.79	68.45	4519.03	95.00	-9.22	9.27 S	80.00 E	32.79914188 N	103.31511013 W	80.53@	96.61	0.10
4614.00	0.70	72.67	4613.03	94.00	-8.81	8.86 S	81.15 E	32.79914297 N	103.31510638 W	81.63@	96.23	0.11
4709.00	0.62	72.45	4708.02	95.00	-8.49	8.53 S	82.19 E	32.79914385 N	103.31510297 W	82.63@	95.92	0.08
4804.00	0.70	82.95	4803.01	95.00	-8.26	8.30 S	83.26 E	32.79914444 N	103.31509949 W	83.67@	95.70	0.15

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Survey Report

DEVON ENERGY PRODUCTION CO., L.P.
GUADALCANAL STATE COM #001H
LEA COUNTY, NM
API#: 30-025-41373 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)
4993.00	0.62	74.73	4992.00	189.00	-7.85	7.89 S	85.39 E	32.79914551 N	103.31509254 W	85.75@	95.28	0.06
5086.00	0.79	77.46	5084.99	93.00	-7.57	7.62 S	86.50 E	32.79914623 N	103.31508892 W	86.83@	95.03	0.19
5179.00	0.62	80.93	5177.99	93.00	-7.36	7.40 S	87.62 E	32.79914680 N	103.31508526 W	87.93@	94.83	0.19
5275.00	0.62	69.33	5273.98	96.00	-7.09	7.14 S	88.62 E	32.79914750 N	103.31508200 W	88.91@	94.60	0.13
5371.00	0.62	62.17	5369.97	96.00	-6.66	6.71 S	89.57 E	32.79914865 N	103.31507891 W	89.82@	94.28	0.08
5464.00	0.79	58.56	5462.97	93.00	-6.09	6.14 S	90.56 E	32.79915019 N	103.31507566 W	90.77@	93.88	0.19
5557.00	0.88	65.33	5555.96	93.00	-5.46	5.51 S	91.75 E	32.79915189 N	103.31507175 W	91.92@	93.44	0.14
5653.00	1.10	55.84	5651.94	96.00	-4.63	4.68 S	93.19 E	32.79915412 N	103.31506707 W	93.30@	92.88	0.28
5749.00	1.19	58.03	5747.92	96.00	-3.59	3.64 S	94.79 E	32.79915695 N	103.31506180 W	94.86@	92.20	0.10
5844.00	1.49	64.85	5842.90	95.00	-2.54	2.59 S	96.75 E	32.79915978 N	103.31505541 W	96.78@	91.53	0.36
5941.00	1.80	66.65	5939.86	97.00	-1.40	1.45 S	99.29 E	32.79916285 N	103.31504711 W	99.30@	90.84	0.32
6035.00	2.11	67.83	6033.80	94.00	-0.16	0.21 S	102.25 E	32.79916617 N	103.31503744 W	102.25@	90.12	0.33
6130.00	2.50	52.67	6128.73	95.00	1.76	1.70 N	105.51 E	32.79917135 N	103.31502675 W	105.53@	89.08	0.76
6224.00	2.81	70.65	6222.63	94.00	3.77	3.71 N	109.32 E	32.79917676 N	103.31501431 W	109.38@	88.06	0.94
6319.00	2.59	75.04	6317.52	95.00	5.09	5.04 N	113.59 E	32.79918029 N	103.31500037 W	113.70@	87.46	0.32
6414.00	2.50	73.46	6412.43	95.00	6.24	6.18 N	117.65 E	32.79918333 N	103.31498712 W	117.81@	86.99	0.12
6508.00	2.42	76.75	6506.34	94.00	7.28	7.22 N	121.55 E	32.79918608 N	103.31497441 W	121.76@	86.60	0.17
6606.00	2.20	75.26	6604.26	98.00	8.24	8.17 N	125.38 E	32.79918860 N	103.31496191 W	125.65@	86.27	0.23
6701.00	2.02	74.03	6699.20	95.00	9.16	9.10 N	128.75 E	32.79919105 N	103.31495090 W	129.07@	85.96	0.20
6795.00	2.11	75.04	6793.14	94.00	10.07	10.00 N	132.02 E	32.79919344 N	103.31494025 W	132.40@	85.67	0.10
6877.00	1.89	57.55	6875.09	82.00	11.18	11.11 N	134.62 E	32.79919644 N	103.31493176 W	135.07@	85.28	0.79
6970.00	2.02	46.65	6968.03	93.00	13.13	13.06 N	137.10 E	32.79920173 N	103.31492361 W	137.72@	84.56	0.42
7066.00	2.11	41.33	7063.97	96.00	15.62	15.55 N	139.50 E	32.79920850 N	103.31491573 W	140.36@	83.64	0.22
7165.00	2.42	35.75	7162.89	99.00	18.69	18.61 N	141.92 E	32.79921686 N	103.31490774 W	143.14@	82.53	0.38
7350.00	2.68	28.06	7347.71	185.00	25.68	25.60 N	146.24 E	32.79923595 N	103.31489348 W	148.47@	80.07	0.23
7538.00	3.12	18.83	7535.47	188.00	34.40	34.32 N	149.96 E	32.79925982 N	103.31488110 W	153.84@	77.11	0.34
7634.00	3.12	20.15	7631.33	96.00	39.33	39.25 N	151.70 E	32.79927331 N	103.31487528 W	156.70@	75.50	0.08

PathFinder – a Schlumberger company

Survey Report

DEVON ENERGY PRODUCTION CO., L.P.
GUADALCANAL STATE COM #001H
LEA COUNTY, NM
API#: 30-025-41373 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)
7731.00	3.91	24.33	7728.15	97.00	44.82	44.74 N	153.98 E	32.79928834 N	103.31486771 W	160.34@	73.80	0.86
7826.00	4.48	18.57	7822.89	95.00	51.29	51.21 N	156.49 E	32.79930605 N	103.31485932 W	164.66@	71.88	0.75
7922.00	4.39	15.67	7918.60	96.00	58.38	58.30 N	158.68 E	32.79932548 N	103.31485199 W	169.05@	69.83	0.25
8016.00	4.39	14.75	8012.33	94.00	65.33	65.24 N	160.57 E	32.79934451 N	103.31484563 W	173.31@	67.89	0.08
** TIED INTO EXTREME ENGINEERING MWD SURVEYS @ 8051' MD.												
8051.00	4.22	16.86	8047.23	35.00	67.85	67.77 N	161.28 E	32.79935144 N	103.31484322 W	174.94@	67.21	0.66
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.												
8140.00	4.13	17.50	8135.99	89.00	74.05	73.96 N	163.19 E	32.79936840 N	103.31483680 W	179.17@	65.62	0.11
8171.00	4.48	16.09	8166.91	31.00	76.27	76.19 N	163.86 E	32.79937451 N	103.31483455 W	180.71@	65.06	1.18
8203.00	5.89	10.73	8198.78	32.00	79.09	79.00 N	164.52 E	32.79938222 N	103.31483234 W	182.50@	64.35	4.65
8235.00	7.56	7.04	8230.55	32.00	82.79	82.71 N	165.08 E	32.79939239 N	103.31483039 W	184.64@	63.39	5.39
8266.00	9.67	2.47	8261.20	31.00	87.42	87.33 N	165.44 E	32.79940509 N	103.31482906 W	187.08@	62.17	7.15
8298.00	12.22	0.01	8292.62	32.00	93.49	93.40 N	165.56 E	32.79942177 N	103.31482850 W	190.09@	60.57	8.10
8329.00	14.95	358.87	8322.75	31.00	100.77	100.68 N	165.48 E	32.79944178 N	103.31482852 W	193.70@	58.68	8.85
8361.00	18.29	357.55	8353.41	32.00	109.92	109.83 N	165.18 E	32.79946693 N	103.31482920 W	198.36@	56.38	10.50
8393.00	21.90	356.76	8383.45	32.00	120.89	120.81 N	164.63 E	32.79949711 N	103.31483065 W	204.20@	53.73	11.31
8424.00	25.59	355.97	8411.82	31.00	133.35	133.26 N	163.84 E	32.79953136 N	103.31483286 W	211.19@	50.88	11.95
8455.00	29.63	355.09	8439.29	31.00	147.67	147.58 N	162.71 E	32.79957074 N	103.31483607 W	219.67@	47.79	13.10
8487.00	33.33	355.79	8466.57	32.00	164.32	164.24 N	161.39 E	32.79961655 N	103.31483986 W	230.26@	44.50	11.62
8519.00	36.93	356.23	8492.74	32.00	182.69	182.60 N	160.11 E	32.79966706 N	103.31484344 W	242.85@	41.24	11.28
8550.00	41.15	356.93	8516.81	31.00	202.17	202.09 N	158.95 E	32.79972064 N	103.31484660 W	257.11@	38.19	13.69
8582.00	44.93	357.20	8540.20	32.00	223.98	223.90 N	157.83 E	32.79978061 N	103.31484955 W	273.94@	35.18	11.83
8613.00	48.54	357.02	8561.44	31.00	246.52	246.44 N	156.69 E	32.79984258 N	103.31485255 W	292.04@	32.45	11.65
8645.00	51.70	357.11	8581.96	32.00	271.04	270.96 N	155.44 E	32.79991001 N	103.31485587 W	312.38@	29.84	9.88
8677.00	54.52	357.37	8601.16	32.00	296.60	296.52 N	154.21 E	32.79998029 N	103.31485908 W	334.22@	27.48	8.84
8708.00	56.45	358.34	8618.73	31.00	322.13	322.05 N	153.25 E	32.80005046 N	103.31486138 W	356.65@	25.45	6.74
8740.00	58.83	358.87	8635.85	32.00	349.15	349.07 N	152.60 E	32.80012473 N	103.31486267 W	380.96@	23.61	7.57

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8771.00	61.55	359.22	8651.26	31.00	376.04	375.96 N	152.15 E	32.80019865 N	103.31486328 W	405.58@	22.03	8.83
8803.00	64.37	359.66	8665.81	32.00	404.53	404.45 N	151.87 E	32.80027697 N	103.31486329 W	432.03@	20.58	8.90
8834.00	68.32	359.92	8678.25	31.00	432.92	432.84 N	151.77 E	32.80035500 N	103.31486273 W	458.68@	19.32	12.76
8866.00	72.02	359.74	8689.10	32.00	463.02	462.94 N	151.68 E	32.80043771 N	103.31486208 W	487.16@	18.14	11.57
8898.00	75.10	359.74	8698.15	32.00	493.71	493.63 N	151.54 E	32.80052205 N	103.31486158 W	516.37@	17.07	9.62
8929.00	77.12	359.66	8705.60	31.00	523.80	523.72 N	151.38 E	32.80060475 N	103.31486115 W	545.16@	16.12	6.52
8961.00	79.67	359.74	8712.03	32.00	555.14	555.06 N	151.22 E	32.80069090 N	103.31486070 W	575.29@	15.24	7.97
8992.00	82.22	359.48	8716.91	31.00	585.75	585.67 N	151.01 E	32.80077503 N	103.31486042 W	604.83@	14.46	8.27
9024.00	84.50	359.57	8720.61	32.00	617.54	617.46 N	150.74 E	32.80086238 N	103.31486028 W	635.59@	13.72	7.13
9055.00	86.70	0.10	8722.99	31.00	648.44	648.36 N	150.66 E	32.80094732 N	103.31485960 W	665.64@	13.08	7.30
9119.00	87.58	359.48	8726.18	64.00	712.36	712.28 N	150.42 E	32.80112299 N	103.31485836 W	727.99@	11.92	1.68
9213.00	89.25	0.77	8728.78	94.00	806.32	806.24 N	150.63 E	32.80138120 N	103.31485474 W	820.19@	10.58	2.24
9308.00	91.01	0.83	8728.57	95.00	901.31	901.23 N	151.95 E	32.80164221 N	103.31484745 W	913.95@	9.57	1.85
9402.00	91.71	1.31	8726.34	94.00	995.26	995.18 N	153.71 E	32.80190037 N	103.31483880 W	1006.98@	8.78	0.90
9496.00	91.28	1.73	8723.88	94.00	1089.20	1089.12 N	156.20 E	32.80215846 N	103.31482774 W	1100.26@	8.16	0.64
9590.00	91.71	1.60	8721.43	94.00	1183.13	1183.05 N	158.93 E	32.80241652 N	103.31481591 W	1193.67@	7.65	0.48
9685.00	91.10	0.03	8719.10	95.00	1278.09	1278.00 N	160.28 E	32.80267746 N	103.31480854 W	1288.02@	7.15	1.77
9779.00	90.84	358.40	8717.51	94.00	1372.06	1371.98 N	158.99 E	32.80293575 N	103.31480979 W	1381.16@	6.61	1.76
9873.00	90.84	358.65	8716.13	94.00	1466.02	1465.94 N	156.57 E	32.80319403 N	103.31481472 W	1474.28@	6.10	0.27
9967.00	92.07	358.07	8713.75	94.00	1559.95	1559.87 N	153.89 E	32.80345224 N	103.31482052 W	1567.44@	5.63	1.45
10062.00	91.80	355.12	8710.54	95.00	1654.71	1654.63 N	148.25 E	32.80371283 N	103.31483590 W	1661.26@	5.12	3.12
10156.00	92.15	355.56	8707.30	94.00	1748.34	1748.27 N	140.61 E	32.80397036 N	103.31485780 W	1753.91@	4.60	0.60
10251.00	92.15	356.17	8703.73	95.00	1843.02	1842.95 N	133.77 E	32.80423076 N	103.31487711 W	1847.80@	4.15	0.64
10345.00	92.24	356.78	8700.13	94.00	1936.77	1936.71 N	127.99 E	32.80448857 N	103.31489297 W	1940.93@	3.78	0.65
10440.00	90.22	355.96	8698.09	95.00	2031.55	2031.49 N	121.98 E	32.80474921 N	103.31490956 W	2035.15@	3.44	2.29
10534.00	90.22	356.42	8697.73	94.00	2125.34	2125.28 N	115.73 E	32.80500713 N	103.31492695 W	2128.43@	3.12	0.49
10628.00	90.04	356.40	8697.52	94.00	2219.15	2219.09 N	109.85 E	32.80526511 N	103.31494316 W	2221.81@	2.83	0.19

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10722.00	90.13	357.31	8697.38	94.00	2313.01	2312.95 N	104.69 E	32.80552319 N	103.31495700 W	2315.32@	2.59	0.97
10817.00	90.75	358.04	8696.65	95.00	2407.92	2407.87 N	100.84 E	32.80578414 N	103.31496657 W	2409.98@	2.40	1.01
10911.00	90.75	358.39	8695.42	94.00	2501.87	2501.82 N	97.91 E	32.80604241 N	103.31497315 W	2503.73@	2.24	0.37
11006.00	91.28	358.45	8693.74	95.00	2596.81	2596.76 N	95.29 E	32.80630341 N	103.31497870 W	2598.51@	2.10	0.56
11101.00	91.36	358.47	8691.55	95.00	2691.75	2691.70 N	92.74 E	32.80656440 N	103.31498403 W	2693.30@	1.97	0.09
11195.00	91.36	358.59	8689.32	94.00	2785.69	2785.65 N	90.33 E	32.80682264 N	103.31498893 W	2787.11@	1.86	0.13
11290.00	91.36	358.17	8687.06	95.00	2880.63	2880.58 N	87.64 E	32.80708361 N	103.31499469 W	2881.91@	1.74	0.44
11385.00	91.54	358.79	8684.66	95.00	2975.56	2975.52 N	85.12 E	32.80734458 N	103.31499992 W	2976.74@	1.64	0.68
11480.00	91.71	358.97	8681.97	95.00	3070.50	3070.46 N	83.27 E	32.80760556 N	103.31500298 W	3071.59@	1.55	0.26
11570.00	91.54	357.22	8679.41	90.00	3160.41	3160.37 N	80.28 E	32.80785273 N	103.31500990 W	3161.39@	1.46	1.95
11669.00	91.71	357.72	8676.61	99.00	3259.27	3259.24 N	75.91 E	32.80812454 N	103.31502101 W	3260.12@	1.33	0.53
11763.00	90.40	357.26	8674.87	94.00	3353.16	3353.13 N	71.79 E	32.80838268 N	103.31503147 W	3353.90@	1.23	1.48
11858.00	89.08	357.19	8675.31	95.00	3448.05	3448.01 N	67.19 E	32.80864357 N	103.31504346 W	3448.67@	1.12	1.39
11952.00	89.52	357.30	8676.45	94.00	3541.93	3541.90 N	62.68 E	32.80890171 N	103.31505522 W	3542.45@	1.01	0.48
12046.00	90.40	357.62	8676.52	94.00	3635.83	3635.80 N	58.51 E	32.80915989 N	103.31506583 W	3636.27@	0.92	1.00
12140.00	90.92	357.89	8675.44	94.00	3729.75	3729.72 N	54.83 E	32.80941810 N	103.31507487 W	3730.13@	0.84	0.62
12235.00	90.75	358.16	8674.05	95.00	3824.68	3824.66 N	51.55 E	32.80967909 N	103.31508255 W	3825.01@	0.77	0.34
12329.00	91.28	357.46	8672.39	94.00	3918.60	3918.57 N	47.96 E	32.80993728 N	103.31509129 W	3918.87@	0.70	0.93
12423.00	91.63	357.61	8670.00	94.00	4012.48	4012.46 N	43.92 E	32.81019540 N	103.31510150 W	4012.70@	0.63	0.41
12518.00	91.98	357.99	8667.01	95.00	4107.36	4107.34 N	40.28 E	32.81045626 N	103.31511039 W	4107.54@	0.56	0.54
12612.00	92.24	358.14	8663.55	94.00	4201.24	4201.22 N	37.10 E	32.81071435 N	103.31511777 W	4201.38@	0.51	0.32
12706.00	91.98	358.26	8660.09	94.00	4295.13	4295.11 N	34.15 E	32.81097246 N	103.31512443 W	4295.25@	0.46	0.30
12801.00	91.98	358.30	8656.80	95.00	4390.03	4390.01 N	31.30 E	32.81123334 N	103.31513073 W	4390.12@	0.41	0.04
12895.00	91.98	358.18	8653.56	94.00	4483.93	4483.91 N	28.42 E	32.81149147 N	103.31513718 W	4484.00@	0.36	0.13
12990.00	91.89	358.25	8650.35	95.00	4578.82	4578.81 N	25.46 E	32.81175236 N	103.31514383 W	4578.88@	0.32	0.12
13084.00	91.98	358.22	8647.17	94.00	4672.72	4672.71 N	22.57 E	32.81201049 N	103.31515030 W	4672.77@	0.28	0.10
13178.00	92.15	358.14	8643.79	94.00	4766.61	4766.60 N	19.58 E	32.81226861 N	103.31515707 W	4766.64@	0.24	0.20

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13202.00	92.24	358.16	8642.87	24.00	4790.58	4790.57 N	18.81 E	32.81233450 N	103.31515884 W	4790.61@	0.22	0.38
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 13256' MD.												
13256.00	92.24	358.16	8640.76	54.00	4844.51	4844.50 N	17.08 E	32.81248276 N	103.31516279 W	4844.53@	0.20	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.