

Reservoir Development

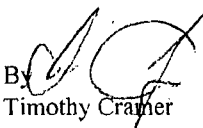
PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
Fax: (405) 789-1519

30-015-43040

Well Reference:

Sec 2 26S 27E Eddy NM
N 32.07836 W -103.83344

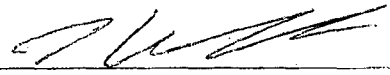
I, Timothy Cramer certify that; I am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 12, 2015 through July 16, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 510.00 feet to a depth of 9139.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Chevron U.S.A. Inc. for the Midnight Sun 2 26 27 5H ST1 Well (Original Hole) API No. 30-015-43040 and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By 
Timothy Cramer
MWD

Subscribed and Sworn to before me this 31 day of July (month) 2015 (yr)

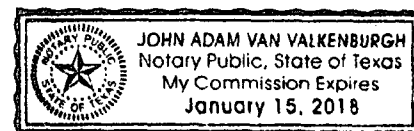
My Commission expires:

01-15-2018


Notary Public

(signature)

Bell County TX
(County State)



Reservoir Development

PathFinder, a Schlumberger Company
9200 West Reno Avenue
Oklahoma City, Oklahoma 73127 USA
Phone: (405) 789-1515
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July 31, 2015

Chevron U.S.A Inc.
15 Smith Road
Midland, Texas 79705

Re:

Sec 2 26S 27E Eddy NM
N 32.07836 W -103.83344

CLIENT: Chevron U.S.A. Inc.
WELL: Midnight Sun 2 26 27 5H ST1
FIELD: Delaware River; Bone Spring
RIG: Nabors M51
COUNTY: Eddy
API NO: 30-015-43040
JOB NO: 15MLD2008

Enclosed, please find the original copy of the survey performed on the referenced well by PathFinder, a division of Schlumberger Technology Corporation.
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Timothy Cramer MWD	Midnight Sun 2 26 27 5H ST1 Original Hole	510.00 Ft to 9139.00 Ft	June 12, 2015 to July 16, 2015	HDS-1L

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Qun Xu
Field Service Manager

PathFinder Energy Services, Inc.

Survey Report

CHEVRON U.S.A INC.
MIDNIGHT SUN 2 26 27 5H ST01
EDDY COUNTY, NM
Rig:Nabors M51
PathFinder Office Supervisor: Qun Xu
PathFinder Field Engineers: T.Cramer

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.4.42.1117 N LON:104.9.59.6144 W
GRID Reference:NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 551655.0000 Y: 392273.0000
North Aligned To:GRID NORTH
Total Magnetic Correction: 7.47° EAST TO GRID
Vertical Section Plane: 182.41
Survey Vert. Reference: 22.00' Rotary Table To Ground
Altitude:3222.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
ORIGIN OF WELL AT SURFACE.										
0.00	0.00	0.00	0.00	0.00	-0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
510.00	4.40	286.92	509.50	510.00	-4.90	5.70 N	18.73 W	19.57@	286.92	0.86
618.00	2.11	283.36	617.32	108.00	-6.32	7.36 N	24.62 W	25.70@	286.64	2.13
709.00	0.70	128.62	708.30	91.00	-6.31	7.40 N	25.82 W	26.86@	286.00	3.03
894.00	1.32	106.51	893.27	185.00	-5.12	6.09 N	22.89 W	23.69@	284.90	0.39
1081.00	1.41	108.99	1080.22	187.00	-3.94	4.73 N	18.65 W	19.24@	284.23	0.06
1271.00	1.76	97.98	1270.15	190.00	-2.99	3.56 N	13.55 W	14.01@	284.73	0.24
1462.00	1.58	89.34	1461.07	191.00	-2.85	3.19 N	8.02 W	8.63@	291.69	0.16
1652.00	2.37	89.79	1650.95	190.00	-3.17	3.23 N	1.47 W	3.55@	335.57	0.42
1843.00	0.88	59.75	1841.87	191.00	-4.14	3.99 N	3.75 E	5.47@	43.24	0.87
2033.00	2.02	89.06	2031.81	190.00	-5.12	4.78 N	8.36 E	9.63@	60.25	0.70
2223.00	1.23	286.73	2221.78	190.00	-5.82	5.42 N	9.75 E	11.16@	60.95	1.69
2414.00	2.20	281.17	2412.69	191.00	-6.89	6.72 N	4.19 E	7.92@	31.97	0.52
2605.00	0.53	79.62	2603.65	191.00	-7.64	7.59 N	1.46 E	7.73@	10.92	1.41
2795.00	1.06	104.21	2793.63	190.00	-7.48	7.31 N	4.03 E	8.35@	28.87	0.32
2986.00	1.58	102.08	2984.58	191.00	-6.67	6.33 N	8.32 E	10.45@	52.74	0.27
3177.00	1.76	103.96	3175.50	191.00	-5.64	5.07 N	13.74 E	14.65@	69.74	0.10
3367.00	2.20	109.21	3365.39	190.00	-4.01	3.17 N	20.02 E	20.27@	81.01	0.25
3558.00	1.67	194.18	3556.31	191.00	-0.22	0.74 S	22.80 E	22.81@	91.85	1.38
3749.00	2.02	209.24	3747.21	191.00	5.51	6.37 S	20.47 E	21.44@	107.29	0.31
3939.00	2.11	209.67	3937.09	190.00	11.60	12.33 S	17.10 E	21.09@	125.80	0.05
4130.00	1.58	247.78	4128.00	191.00	15.83	16.39 S	12.93 E	20.87@	141.73	0.68
4321.00	1.14	295.83	4318.95	191.00	16.17	16.55 S	8.78 E	18.74@	152.06	0.62
4511.00	1.49	279.02	4508.90	190.00	15.13	15.34 S	4.64 E	16.03@	163.18	0.27

PathFinder Energy Services, Inc.

Survey Report

CHEVRON U.S.A INC.
MIDNIGHT SUN 2 26 27 5H ST01
EDDY COUNTY, NM
RIG:Nabors M51

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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)		Closure Dist (ft)	Dir (deg)	DLS (dg/100ft)
ST01 DEPARTS ORIGINAL WELLBORE AT 4648' MD.										
4698.00	8.09	298.92	4695.15	187.00	8.97	8.59 S	9.30 W	12.66@	227.26	3.59
4793.00	7.65	298.05	4789.25	95.00	3.25	2.38 S	20.73 W	20.87@	263.44	0.48
4889.00	8.09	297.27	4884.35	96.00	-2.35	3.71 N	32.37 W	32.58@	276.55	0.47
4984.00	8.35	295.49	4978.37	95.00	-7.86	9.75 N	44.54 W	45.59@	282.34	0.38
5080.00	7.83	301.90	5073.42	96.00	-13.82	16.20 N	56.38 W	58.67@	286.03	1.08
5175.00	7.30	307.45	5167.59	95.00	-20.47	23.29 N	66.67 W	70.62@	289.26	0.95
5271.00	7.74	313.58	5262.77	96.00	-28.23	31.46 N	76.20 W	82.43@	292.43	0.95
5366.00	7.21	322.88	5356.96	95.00	-37.03	40.62 N	84.43 W	93.69@	295.69	1.39
5461.00	6.95	330.07	5451.24	95.00	-46.49	50.36 N	90.89 W	103.91@	298.99	0.97
5652.00	6.77	328.64	5640.87	191.00	-65.61	69.98 N	102.52 W	124.13@	304.32	0.13
5843.00	6.33	331.14	5830.63	191.00	-83.97	88.82 N	113.46 W	144.09@	308.05	0.27
6033.00	4.84	0.87	6019.76	190.00	-100.94	106.01 N	118.39 W	158.92@	311.84	1.69
6224.00	4.04	15.06	6210.19	191.00	-115.56	120.57 N	116.52 W	167.67@	315.98	0.71
6414.00	2.11	11.47	6399.91	190.00	-125.54	130.46 N	114.09 W	173.31@	318.83	1.02
6605.00	1.32	38.71	6590.82	191.00	-130.79	135.62 N	112.01 W	175.90@	320.45	0.58
6795.00	2.02	42.41	6780.74	190.00	-135.12	139.80 N	108.39 W	176.89@	322.21	0.37
6986.00	2.90	41.29	6971.56	191.00	-141.46	145.92 N	102.93 W	178.57@	324.80	0.46
7176.00	0.79	35.84	7161.46	190.00	-146.29	150.59 N	98.99 W	180.21@	326.68	1.11
7367.00	0.79	24.43	7352.44	191.00	-148.61	152.86 N	97.67 W	181.40@	327.42	0.08
7497.00	1.06	27.59	7482.42	130.00	-150.53	154.74 N	96.75 W	182.49@	327.99	0.21
7651.00	1.14	257.30	7636.41	154.00	-151.42	155.66 N	97.58 W	183.72@	327.92	1.30
7747.00	1.67	234.08	7732.38	96.00	-150.31	154.63 N	99.64 W	183.96@	327.20	0.80
7937.00	1.76	222.09	7922.29	190.00	-146.34	150.84 N	103.84 W	183.13@	325.46	0.19
8128.00	1.23	233.30	8113.23	191.00	-142.79	147.44 N	107.45 W	182.44@	323.92	0.32
8318.00	0.97	248.90	8303.19	190.00	-140.87	145.64 N	110.59 W	182.87@	322.79	0.21
8509.00	2.11	239.57	8494.12	191.00	-138.31	143.28 N	115.13 W	183.80@	321.22	0.61
8604.00	2.37	243.90	8589.05	95.00	-136.43	141.53 N	118.40 W	184.53@	320.09	0.33

PathFinder Energy Services, Inc.

Survey Report

CHEVRON U.S.A INC.
MIDNIGHT SUN 2 26 27 5H ST01
EDDY COUNTY, NM
RIG:Nabors M51

Page 03/03

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets		Closure Dist Dir		DLS
						(ft)	(ft)	(ft)	(deg)	(dg/100ft)
8794.00	2.46	243.42	8778.88	190.00	-132.58	137.98 N	125.57 W	186.57@	317.69	0.05
8985.00	2.55	241.63	8969.70	191.00	-128.42	134.13 N	132.98 W	188.87@	315.25	0.06
9139.00	2.46	239.06	9123.55	154.00	-124.85	130.80 N	138.83 W	190.74@	313.29	0.09
STRAIGHT LINE PROJECTION TO BIT AT 9199'MD.										
9199.00	2.46	239.06	9183.50	60.00	-123.43	129.47 N	141.04 W	191.46@	312.55	0.00