

Reservoir Development

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



September 1, 2015

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

NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 24 2015

RECEIVED

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

Re:

CLIENT: Chevron U.S.A. Inc.
WELL: Midnight Sun 2 26 27 5H
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 Original Hole	510.00 Ft to 6560.00 Ft	June 12, 2015 to June 25, 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

Reservoir Development

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



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 June 25, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 510.00 feet to a depth of 6560.00 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 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.

Behalf of Timothy Cramer

By
Timothy Cramer
MWD

Qm Xq

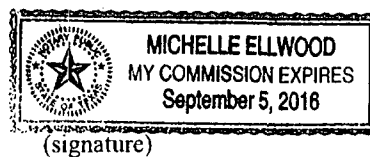
Subscribed and Sworn to before me this 1 day of September (month) 2015 (yr)

My Commission expires:

September 5, 2016

Michelle Ellwood

Notary Public



Midland, TX
(County State)

SEP 24 2015

PathFinder – a Schlumberger company

RECEIVED

Survey Report

CHEVRON U.S.A INC.
MIDNIGHT SUN 2 26 27 5H
EDDY COUNTY, NM
API#: 30-015-43040 Rig: Nabors M51
PathFinder Office Supervisor: Qun Xu
PathFinder Field Engineers: T.Cramer

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Tie-in Date: 06/12/2015
Date Completed: 07/10/2015

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: 7.45°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 Dir (ft) (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 – a Schlumberger company

Survey Report

CHEVRON U.S.A INC.
MIDNIGHT SUN 2 26 27 5H
EDDY COUNTY, NM
API#: 30-015-43040

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 Dir (ft) (deg)		DLS (dg/100ft)
4702.00	0.53	293.56	4699.87	191.00	14.53	14.60 S	1.37 E	14.67@	174.62	0.52
4893.00	0.53	107.86	4890.86	191.00	14.45	14.52 S	1.41 E	14.59@	174.47	0.55
5084.00	0.97	126.46	5081.85	191.00	15.59	15.75 S	3.55 E	16.14@	167.31	0.26
5274.00	1.23	121.14	5271.81	190.00	17.47	17.76 S	6.59 E	18.94@	159.65	0.15
5370.00	1.32	131.78	5367.79	96.00	18.66	19.03 S	8.29 E	20.76@	156.45	0.26
5465.00	0.79	23.28	5462.78	95.00	18.75	19.16 S	9.37 E	21.32@	153.94	1.83
5560.00	3.34	338.42	5557.71	95.00	15.61	15.98 S	8.61 E	18.15@	151.69	2.98
5656.00	5.72	326.67	5653.41	96.00	9.17	9.38 S	4.95 E	10.61@	152.19	2.65
5751.00	6.95	324.56	5747.83	95.00	0.79	0.74 S	0.98 W	1.23@	232.90	1.32
5942.00	7.74	324.64	5937.26	191.00	-18.51	19.16 N	15.13 W	24.41@	321.71	0.41
6132.00	6.68	323.12	6125.75	190.00	-37.17	38.43 N	29.16 W	48.25@	322.81	0.57
6323.00	5.45	320.96	6315.68	191.00	-52.57	54.37 N	41.55 W	68.42@	322.61	0.65
STRAIGHT LINE PROJECTION TO BIT DEPTH AT 6560' MD.										
6560.00	5.45	320.96	6551.61	237.00	-69.44	71.85 N	55.72 W	90.93@	322.20	0.00