Reservoir Development

PathFinder, a Schlumberger Company 9200 West Reno Avenue

Oklahoma City, Oklahoma 73127 USA

Phone: (405) 789-1515 Fax: (405) 789-1519

August 25, 2015

Chevron U.S.A Inc. 15 Smith Road Midland, Texas 79705 PATH/FINDER
A Schlumberger Company

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 0.4 2016

RECEIVED

Re:

Sec 25 26S 28E Eddy NM N 32.00701 W -103.95326 CLIENT: Chevron U.S.A. Inc.

WELL: Rustler Bluff 25 26 28 Federal 1H FIELD: Delaware River; Bone Spring

RIG: Nabors M51
COUNTY: Eddy
ARI NO: 30-015-4305

API NO: 30-015-43055 JOB NO: 15MLD2009

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
Timothy Cramer MWD	Rustler Bluff 25 26 28 Federal 111 Original Hole	398.00 Ft to 12790.00 Ft	August 4, 2015 to August 15, 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 Cilfielo Services, Central U.S. Land

Reservoir Development

PathFinder, a Schlumberger Company

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Oklahoma City, Oklahoma 73127 USA

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Well Reference:

Sec 25 26S 28E Eddy NM N 32.00701 W -103.95326

1, Timothy Cramer certify that; 1 am employed by PathFinder, a division of Schlumberger Technology Corporation; that I did on the day(s) of August 04, 2015 through August 15, 2015, conduct or supervise the taking of the HDS-1L surveys from a depth of 398.00 feet to a depth of 12790.00 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 Rustler Bluff 25 26 28 Federal 1H Well (Original Hole) API No. 30-015-43055 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.

MWD

Subscribed and Sworn to before me this 35th day of august (month) 2015 (yr)

My Commission expires:

(signature)

MICHELLE ELLWOOD MY COMMISSION EXPIRES September 5, 2016

A Schlumberger Company

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 04 20.5

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PathFinder - a Schlumberger company

Tie-in Date: 08/04/2015 Date Completed: 08/15/2015

Survey Report

Survey Horiz. Reference:WELLHEAD
Ref Coordinates: LAT:32.0.25.2584 N LON:105.57.48.2524 W
GRID Reference:NAD27 new mexico central Transverse Mercator
Ref GRID Coor: X: 58836.0000 Y: 366394.0000
North Aligned To:TRUE NORTH

Total Magnetic Correction: 7.32° EAST TO TRUE Vertical Section Plane: 358.71

Survey Vert. Reference: 22.00' Rotary Table To Ground Altitude:3000.00' Ground To MSL

Survey Calculations by RX4 using Minimum Curvature

API#: 30-015-43055 Rig: Nabors M51 PathFinder Office Supervisor: Qun Xu PathFinder Field Engineers: T.Cramer

CHEVRON U.S.A INC. RUSTLER BLUFF 25 26 28 FED 1H

EDDY COUNTY, NM

ations by KA4 using imminum curvature	in fillen +		al value		1						Attende: 500	Adduce: 3000:00 Ground To
Measured	ed Incl	5	Drift	TVD	Course	Vertical	TOTAL	IAL		<u>.</u>	DLS	
Depth (#)	(deg)		Dir. (deg)	(£)	Length (ft)	Section (ft)	Rectangul (ft)	Rectangular Offsets (ft) (ft)	Dist (ft) (c	(deg)	(dg/100ft)	
000	RIGIN O	F WELL AT 0.00	SURFACE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
398 00	HE FOLI	OWING AR	RE PATHFII	NDER MWD	MWD SURVEYS.	0.65	N 99 0	0.61 E	0 8 0	42 63	900	
								1 1 - 6 - 6) (
522.00		0.18 0.35	69.65 210.51	522.00 710.00	124.00	1.92	0.94 N	26.0 T 080	1.35(0) 7.2(0)	46.35 24.04	0.10	
896.00			263.09	895.99	186.00	1.80	1.79 N	0.48 W	1.850	345.01	0.28	
1082.00			265.58	1081.98	186.00	1.64	1.58 N	2.61 W	3.05@	301.19	0.05	
1273.00		0.88	256.40	1272.96	191.00	1.26	1.15 N	5.20 W	5.32@	282.43	0.12	
1463.00			236.19	1462.93	190.00	-0.06	0.25 S	8.19 W	8.19@	268.26	0.23	
1654.00			244.03	1653.88	191.00	-2.19	2.46 S	12.13 W	12.38@	258.54	0.25	
1845.00			337.81	1844.85	191.00	-2.60	2.93 \$	14.78 W	15.07@	258.77	0.87	
2036.00		1.23	47.98	2035.83	191.00	-0.58	0.88 S	13.53 W	13.56@	266.27	0.61	
2226.00		0.26	37.53	2225.81	190.00	1.09	0.83 N	11.76 W	11.78@	274.02	0.51	
2417.00			104.70	2416.76	191.00	0.38	0.20 N	7.80 W	7.80@	271.47	1.15	
2581.00		•	169.65	2580.70	164.00	-2.14	2.24 S	4.34 W	4.88@	242.73	1.27	
2705.00	•	1.58	174.22	2704.66	124.00	-5.06	5.15 \$	3.94 W	6.49@	217.44	0.36	
2895.00	•		176.11	2894.60	190.00	-10.01	10.09 S	3.52 W	10.69@	199.24	0.09	
3086.00	•		171.87	3085.54	191.00	-14.69	14.76 S	3.03 W	15.07@	191.60	0.05	
3276.00		.58	172.09	3275.47	190.00	-19.61	19.67 S	2.34 W	19.81@	186.78	0.09	
3466.00	·	1.67	178.13	3465.40	190.00	-24.98	25.03 S	1.89 W	25.10@	184.31	0.10	
3657.00			356.43	3656.38	191.00	-26.73	26.78 S	1.86 W	26.84@	183.97	1.20	
3847.00			356.29	3846.36	190.00	-24.25	24.30 S	2.02 W	24.38@	184.75	0.14	
4038.00			353.02	4037.34	191.00	-21.32	21.38 S	2.29 W	21.50@	186.12	0.03	
4229.00		0,88	334.51	4228.32	191.00	-18.52	18.60 \$	3.10 W	18.86@	189.47	0.15	
4420.00			311.84	4419.30	191.00	-16.29	16.40 S	4.71 W	17.06@	196.04	0.18	

PathFinder – a Schlumberger company

Survey Report

	26 28 FED 1H		Rig: Nabors M51
CHEVRON U.S.A INC.	RUSTLER BLUFF 25 26 28 FED 1H	EDDY COUNTY, NM	API#: 30-015-43055

Measured	Incl	Drift	ΟVI	Course	Vertical	OT	TOTAL	Closure	ē ;	DLS
(f)	(deg)	(deg)	(£)	(t)	(H)	Nectalign (ft)	(ft)	(ft) (deg	(deg)	(dg/100ft)
4610.00	0.79	308.13	4609.28	190.00	-14.56	14.71 S	6.72 W	16.18@	204.55	0.03
4801.00	0.88	302.34	4800.26	191.00	-12.91	13.12 S	9.00 W	15.90@	214.44	90.0
4991.00	0.79	280.68	4990.24	190.00	-11.83	12.09 S	11.51 W	16.70@	223.60	0.17
5182.00	0.70	271.36	5181.22	191.00	-11.50	11.82 S	13.98 W	18.30@	229.77	0.08
5373.00	0.62	268.62	5372.21	191.00	-11.45	11.82 S	16.17 W	20.03@	233.84	0.05
5564.00	0.70	273.75	5563.20	191.00	-11.35	11.77 S	18.37 W	21.82@	237.36	0.05
5754.00	0.53	276.50	5753.19	190.00	-11.13	11.59 S	20.40 W	23.47@	240.40	0.09
5944.00	0.44	261.76	5943.18	190.00	-11.10	11.60 S	22.00 W	24.87@	242.20	0.08
6135.00	0.53	225.28	6134.17	191.00	-11.79	12.32 S	23.35 W	26.40@	242.18	0.17
6325.00	0.62	271.47	6324.16	190.00	-12.35		25.00 W	28.14@	242.68	0.24
6516.00	1.58	340.60	6515.13	191.00	-9.80	10.41 S	26.91 W	28.85@	248.86	0.77
6706.00	1.58	310.42	90'5029	190.00	-5.56	6.24 S	29.78 W	30.42@	258.17	0.43
6897.00	1.14	208.31	6896.03	191.00	-5.46	6.20 S	32.68 W	33.27@	259.26	1.12
7088.00	1,23	280.72	7087.00	191.00	-6.69	7.49 S	35.60 W	36.38@	258.11	0.73
7278.00	0.62	233.10	7276.98	190.00	-6.86	7.73 S	38.42 W	39.19@	258.62	0.49
7469.00	0.79	215.31	7467.96	191.00	-8.52	9.43 S	40.01 W	41.11@	256.74	0.14
7659.00	0.44	216.21	7657.95	190.00	-10.15	11.08 S	41.20 W	42.66@	254.94	0.19
7748.00	0.62	315.32	7746.95	89.00	-10.07	11.02 S	41.74 W	43.17@	255.21	0.92
7843.00	11.96	340.12	7841.23	95.00	-0.34	1.36 S	45.46 W	45.48@	268.28	12.00
7893.00	17.67	342.59	7889.54	20.00	11.87	10.76 N	49.50 W	20.65 @	282.26	11.49
7939.00	21.54	343.35	7932.87	46.00	26.73	25.52 N	54.01 W	59.73@	295.29	8.43
8034.00	32.27	352.56	8017.50	95.00	68.90	67.51 N	62.31 W	91.88@	317.29	12.09
8130.00	40.80	355.44	8094.57	96.00	125.80	124.30 N	68.14 W	141.75@	331.27	90.6
8225.00	53.11	354.51	8159.29	95.00	194.94	193.32 N	74.26 W	207.09@	338.99	12.98
8321.00	64.28	0.64	8209.13	96.00	276.77	275.09 N	77.47 W	285.79@	344.27	12.84
8416.00	72.90	2.25	8243.77	95.00	365.02	363.42 N	75.20 W	371.12@	348.31	9.21
8497.00	83.89	357.65	8260.05	81.00	444.20	442.62 N	75.33 W	448.99@	350.34	14.66
8536.00	89.78	355.70	8262.20	39.00	483.10		77.59 W	487.69@	350.85	15.91

PathFinder – a Schlumberger company Survey Report

Rig: Nabors M51 CHEVRON U.S.A INC. RUSTLER BLUFF 25 26 28 FI EDDY COUNTY, NM API#: 30-015-43055 Rig:

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28 FED		
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Measured Incl Depth	Drift Dir.	D Y	Course Length	Vertical Section	TO Rectangu	TOTAL Rectangular Offsets	Closure Dist Dir	Jre Dir	DLS
(deg)	(deg)	Œ	Œ	Æ	(£)	Œ	(ft) (deg)	deg)	(dg/100ft)
90.92	356.44	8261.82	63.00	546.03	544.33 N	81.91 W	550.45@	351.44	2.16
91.36	359.24	8259.93	95.00	640.99	639.23 N	85.49 W	644.92@	352.38	2.98
90.75	0.31	8258.16	96.00	736.96	735.21 N	85.87 W	740.21@	353.34	1.28
91.19	0.72	8256.55	95.00	831.90	830.19 N	85.01 W	834.53@	354.15	0.63
91.89	0.92	8254.00	95.00	926.80	925.15 N	83.65 W	928.92@	354.83	0.77
92.59	0.94	8250.25	96.00	1022.65	1021.06 N	82.10 W	1024.36@	355.40	0.73
91.54	1.45	8246.82	95.00	1117.50	1115.98 N	80.12 W	1118.85@	355.89	1.23
88.90	359.67	8246.46	95.00	1212.44	1210.96 N	79.19 W	1213.55@	356.26	3.35
89.43	0.32	8247.84	95.00	1307.40	1305.95 N	79.20 W	1308.35@	356.53	0.88
89.78	0.50	8248.50	95.00	1402.36	1400.94 N	78.52 W	1403.14@	356.79	0.41
90.48	0.77	8248.28	95.00	1497.30	1495.94 N	77.46 W	1497.94@	357.04	0.79
91.19	1.12	8246.88	96.00	1593.22	1591.91 N	75.88 W	1593.72@	357.27	0.82
89.34	359.70	8246.45	95.00	1688.17	1686.90 N	75.20 W	1688.58@	357.45	2.46
80.68	358.61	8247.75	95.00	1783.16	1781.88 N	76.60 W	1783.53@	357.54	1.18
89.69	359.21	8248.79	96.00	1879.15	1877.86 N	78.43 W	1879.50@	357.61	0.89
90.13	×359.64	8248.93	95.00	1974.14	1972.85 N	79.38 W	1974.45@	357.70	0.65
90.48	0.38	8248.42	96.00	2070.11	2068.85 N	79.36 W	2070.37@	357.80	0.85
91.01	359.75	8247.19	95.00	2165.08	2163.84 N	79.26 W	2165.29@	357.90	0.87
89.52	359.04	8246.75	95.00	2260.07	2258.83 N	80.26 W	2260.26@	357.97	1.74
89.96	358.92	8247.18	96.00	2356.06	2354.82 N	81.97 W	2356.24@	358.01	0.48
90.22	358.40	8247.04	95.00	2451.06	2449.79 N	84.19 W	2451.24@	358.03	0.61
90.75	358.04	8246.23	95.00	2546.06	2544.74 N	87.14 W	2546.23@	358.04	0.67
91.63	358.33	8244.26	95.00	2641.03	2639.67 N	90.15 W	2641.21@	358.04	0.97
91.36	358.75	8241.75	96.00	2737.00	2735.61 N	92.59 W	2737.17@	358.06	0.52
91.10	359.24	8239.71	95.00	2831.97	2830.57 N	94.26 W	2832.14@	358.09	0.58
89.78	359.73	8238.98	95.00	2926.96	2925.56 N	95.11 W	2927.11@	358.14	1.48
89.52	359.23	8239.57	96.00	3022.95	3021.55 N	95.99 W	3023.08@	358.18	0.59
89.78	358.79	8240.15	95.00	3117.95	3116.54 N	97.63 W	3118.07@	358.21	0.54

PathFinder – a Schlumberger company **Survey Report**

CHEVRON U.S.A INC.
RUSTLER BLUFF 25 26 28 FED 1H
EDDY COUNTY, NM
API#: 30-015-43055 Rig: Nabors

Rig: Nabors M51

Measured	Incl	Drift	ΩΛΙ	Course	Vertical	TO Tours	TOTAL Bectangular Officate	Closure	ure r	DLS
(¥)	(deg)	(deg)	(£)	(¥)	(H)	(H)	(±)	(t) (pap) (t)	deg)	(dg/100ft)
11267.00	90.75	359.41	8239.71	95.00	3212.94	3211.52 N	99.12 W	3213.05@	358.23	1.21
11362.00	91.01	359.58	8238.25	95.00	3307.92	3306.51 N	99.96 W	3308.02@	358.27	0.33
11457.00	96.68	69.0	8237.45	95.00	3402.89	3401.50 N	99.73 W	3402.96@	358.32	1.61
11552.00	89.60	1.19	8237.81	95.00	3497.81	3496.49 N	98.17 W	3497.87@	358.39	0.65
11648.00	90.13	1.09	8238.04	96.00	3593.73	3592.47 N	96.26 W	3593.76@	358.47	0.56
11743.00	90.84	1.56	8237.24	95.00	3688.62	3687.44 N	94.07 W	3688.64@		0.90
11838.00	89.43	1.14	8237.01	95.00	3783.52	3782.41 N	91.83 W	3783.52@		1.55
11934.00	89.96	1.39	8237.52	96.00	3879.42	3878.39 N	89.71 W	3879.42@	358.67	0.61
12029.00	99.06	1.17	8237.01	95.00	3974.32	3973.36 N	87.59 W	3974.32@	358.74	0.77
12124.00	90.75	1.06	8235.84	95.00	4069.23	4068.33 N	85.74 W	4069.24@	358.79	0.15
12219.00	90.57	06.0	8234.75	95.00	4164.15	4163.31 N	84.11 W	4164.16@	358.84	0.25
12314.00	88.64	359.68	8235.40	95.00	4259.11	4258.30 N	83.63 W	4259.12@	358.87	2.40
12409.00	89.25	359.64	8237.15	95.00	4354.08	4353.29 N	84.20 W	4354.10@	358.89	0.64
12505.00	89.52	359.46	8238.18	96.00	4450.06	4449.28 N	84.95 W	4450.09@	358.91	0.34
12600.00	90.22	359.28	8238.40	95.00	4545.05	4544.27 N	86.00 W	4545.08@	358.92	0.76
12695.00	91.10	359.69	8237.30	95.00	4640.04	4639.26 N	86.85 W	4640.07@	358.93	1.02
12790.00	92.07	359.71	8234.67	95.00	4734.99	4734.22 N	87.35 W	4735.03@	358.94	1.02
STRA	STRAIGHT LINE I	PROJECTION		12850'MD.				I		
12850.00	92.07	359.71	8232.51	00.09	4794.94	4794.18 N	87.65 W	4794.98@	358.95	0.00

281 FNL 572 FWL