

30-015-43824

September 7, 2016

Matador Production Company 5400 LBJ Freeway, Suite 1500 Dallas, TX 75240

Attn: Ava Monroe

Re: Dr Scrivner Federal 01 24S 28E RB No. 208H

Please find enclosed a copy of the survey from 6586.54' to 9110.50' ran on the above referenced well.

If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely

Jennifer Byerly Operations

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Company: Matador Production

Lease/Well: Dr. Scrivner Fed 01-24S-28E RB /208H

Rig Name: Patterson 297
State/County: New Mexico/Eddy
VS-Azi: 0.00 Degrees

Latitude: 32.24127, Longitude: -104.03396

Grid North = True North -0.16 degs (NAD 27)

Grid Correction Applied ≈ -0.16 degs



Depth Reference : RKB = 28.5

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: drscrivne-01.ut
Minimum Curvature Method

Report Date/Time: 9/7/2016 / 16:20

VES Survey International Midland Tx (432) 563-5444

Surveyor: Gene Heiss

Dr. Scrivner Federal 01-24S-28E RB No. 208H / API 30-015-43822

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7988.74	7895.26	7801.78	7708.30	7614.82	7521.34	7427.86	7334.38	7240.90	7147.42	7053.94	3960.46	3866.98	3773.50	3680.02	3586.54	Ħ	Depth	Measured
2.34	1.63	0.99	0.76	0.40	0.62	0.75	0.75	1.78	1.73	1.33	1.04	1.14	1.17	0.93	1.30	Deg	Angle	Incl
221.59	207.67	165.74	143.75	100.85	60.93	43.22	260.89	253.82	252.60	254.94	248.83	248.99	239.38	190.79	172.78	Deg	Direction	Drift
7987.88	7894.46	7801.00	7707.53	7614.06	7520.58	7427.11	7333.63	7240.17	7146.74	7053.29	6959.83	6866.37	6772.91	6679.44	6585.98	FT	TVD	
-86.14	-83.54	-81.58	-80.29	-79.73	-79.91	-80.61	-80.96	-80.46	-79.63	-78.92	-78.34	-77.70	-76.88	-75.65	-73.86	FT	+N/-S	
-3.55	-1.67	-1.25	-1.82	-2.51	-3.26	4.12	-3.94	-1.95	0.79	3.19	5.03	6.69	8.38	9.34	9.35	FT	+E/-W	
-86.14	-83.54	-81.58	-80.29	-79.73	-79.91	-80.61	-80.96	-80,46	-79.63	-78.92	-78.34	-77.70	-76.88	-75.65	-73.86	FT	Section	Vertical
86.21	83.55	81.59	80.31	79.77	79.98	80.71	81.05	80.48	79.63	78.99	78.50	77.98	77.33	76.22	74.45	FT	Distance	Closure
182.36	181.15	180.88	181.30	181.80	182.34	182.93	182.79	181.39	179.43	177.69	176.33	175.08	173.78	172.96	172.78	Deg	Direction	Closure
0.92	1.18	0.43	0.58	0.43	0.27	1.52	1.12	0.07	0.43	0.35	0.12	0.21	0.95	0.54	0.02	Deg/100	Severity	Dogleg
	7987.88 -86.14	1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.62 60.93 7520.58 -79.91 -3.26 -79.91 79.98 182.34 0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.75 43.22 7427.11 -80.61 -4.12 -80.61 80.71 182.93 0.62 60.93 7520.58 -79.91 -3.26 -79.91 79.98 182.34 0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.75 43.22 7427.11 -80.61 -4.12 -80.61 80.71 182.93 0.62 60.93 7520.58 -79.91 -3.26 -79.91 79.98 182.34 0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	1.78 253.82 7240.17 -80.46 -1.95 -80.46 80.48 181.39 0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.62 60.93 7520.58 -79.91 -3.26 -79.91 80.71 182.93 0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	1.73 252.60 7146.74 -79.63 0.79 -79.63 79.63 79.63 179.43 1.78 253.82 7240.17 -80.46 -1.95 -80.46 80.48 181.39 0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.75 43.22 7427.11 -80.61 -4.12 -80.61 80.71 182.79 0.62 60.93 7520.58 -79.91 -3.26 -79.91 79.98 182.34 0.40 100.85 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	1.33 254.94 7053.29 -78.92 3.19 -78.92 78.99 177.69 1.73 252.60 7146.74 -79.63 0.79 -79.63 79.63 179.43 1.78 253.82 7240.17 -80.46 -1.95 -80.46 80.48 181.39 0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.75 43.22 7427.11 -80.61 4.12 -80.61 80.71 182.79 0.62 60.93 7520.58 -79.91 -3.26 -79.91 79.98 182.93 0.76 143.75 7614.06 -79.73 -2.51 -79.73 79.77 181.80 0.99 165.74 7801.00 -81.58 -1.25 -81.58 81.59 80.31 181.30 1.63 207.67 7894.46 -83.54 -1.67 -83.54 83.55 181.15 2.34 221.59 7987.88 -86.14 -3.55 -86.14 86.21 182.36	1.04 248.83 6959.83 -78.34 5.03 -78.92 -78.92 78.90 177.69 1.33 254.94 7053.29 -78.92 3.19 -78.92 78.99 177.69 1.73 252.60 7146.74 -79.63 0.79 -79.63 79.63 79.63 179.43 1.78 253.82 7240.17 -80.46 -1.95 -80.46 80.48 81.93 179.43 0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.62 60.93 7520.58 -79.91 -80.61 -4.12 -80.61 80.71 182.93 0.76 143.75 7614.06 -79.73 -2.51 -79.73 79.98 182.93 0.79 165.74 7801.00 -81.58 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46 -83.54 -1.67 -83.54 86.21 182.36 2.34 221.59 7887.88 -86.14 -3.55 -86.14 86.21 182.36	1.14 248.99 6866.37 -77.70 6.69 -77.70 77.90 175.08 1.04 248.93 6866.37 -77.70 6.69 -77.70 77.90 175.08 1.04 248.83 6859.83 -78.34 5.03 -78.34 78.50 176.33 1.33 254.94 7053.29 -78.92 3.19 -78.92 78.92 78.99 177.69 1.73 252.60 7146.74 -79.63 0.79 -79.63 79.63 179.93 179.93 179.93 179.93 179.93 179.93 179.93 179.93 179.93 179.93 179.93 181.39 0.75 250.89 733.63 -80.96 -3.94 -80.61 80.48 181.39 0.82 60.93 7520.58 -79.91 -80.61 4.12 -80.61 80.71 182.79 0.76 143.75 7614.06 -79.73 -2.51 -79.73 79.91 182.93 0.76 143.75 7707.53 -80.29 -1.82 -80.29 80.31 181.30 0.83 165.74 7894.46 83.54 -1.25 -81.58 81.59 180.88 1.63 207.67 7894.46	1.17 239.38 6772.91 -76.88 8.38 -76.88 77.33 173.78 1.14 248.99 6866.37 -77.70 6.69 -77.70 77.98 175.08 1.04 248.83 6959.83 -78.34 5.03 -78.34 78.50 175.08 1.33 254.94 7053.29 -78.92 3.19 -78.92 78.50 176.33 1.73 252.60 7146.74 -79.63 0.79 -79.63 79.63 179.43 1.78 253.82 7240.17 -80.46 -1.96 -80.46 80.48 181.39 0.75 260.89 7333.63 -80.96 -3.94 -80.96 81.05 182.79 0.62 60.93 7620.58 -79.71 -32.6 -79.91 -32.6 -79.91 98.04 182.34 0.76 143.75 7707.53 -80.29 -79.73 -25.1 -79.73 79.77 181.80 0.79 165.74 7804.46 -80.54	0.93 190.79 6679.44 -75.65 9.34 -75.65 76.22 172.96 1.17 239.38 6677.91 -77.88 8.38 -76.88 77.33 173.78 1.14 248.99 6866.37 -77.70 6.69 -77.70 77.98 173.8 1.04 248.83 6959.83 -78.34 5.03 -78.34 78.50 175.08 1.33 254.94 7053.29 -78.92 3.19 -78.92 78.99 177.69 1.73 254.94 7053.29 -78.93 0.79 -79.63 79.63 179.63 1.73 254.94 7053.29 -78.92 3.19 -78.92 78.99 177.69 1.73 254.94 7053.29 -78.63 0.79 -79.63 79.63 179.43 1.74 255.82 7333.63 -80.96 -1.94 -80.46 80.48 181.99 1.75 43.22 7427.11 -80.61 -4.12 -80.61 80.71	1.30 172.78 6585.98 -73.86 9.35 -73.86 74.45 172.78 0.93 190.79 6679.44 -75.65 9.34 -75.65 76.22 172.96 1.17 239.38 6679.44 -75.65 9.34 -75.65 76.22 172.96 1.14 248.89 6866.37 -77.70 6.89 -77.88 77.33 173.78 1.04 248.83 6959.83 -78.34 5.03 -78.34 78.92 175.08 1.33 254.94 7053.29 -78.92 3.19 -78.92 78.92 177.69 175.08 1.78 252.60 7146.74 -80.46 -1.95 -80.46 19.5 79.63 177.93 1.78 253.82 7240.17 -80.46 -1.95 -80.46 80.48 181.39 0.75 260.89 733.63 -80.96 -3.94 -80.96 81.05 182.79 0.76 43.22 7427.11 -80.46 -1.95 -80.61 80.41 80.71 182.93 0.76 60.93 7520.58 -79.73 -2.51 -79.73 79.75 182.93 0.79 165.74 7894.46 -1.82 -80.29	Deg Deg FT PT P	Angle Direction TVD +NU-S +E/W Section Distance Direction Direction Section Direction Deg FT Deg PE/W E/I FT FT FT PE/W Deg PE/W App App



i	Gene H	eissce	rtify that I an	n employed by Vi	ES Survey li	nternation	ial. That I did on the day	(s)	
of _	08/29/16	through	08/29/16	conduct or super	rvise the tak	ing of a	Rate Gyro	survey	from a
depti	n of 6,58	6.54 feet to	a depth of	9,110.50	feet; that	the data i	s true, correct, complete	and	
withi	n the limitation	ns of the tool a	s set forth b	y Vaughn Energy	Services, t	hat I am a	authorized and qualified		
to ma	ake this report	t; that this surv	ey was con	ducted at the requ	uest of		Matador Production	1	for the
Dr. S	crivner Fed 01	1-24S-28E RB	Well #	208H	AI	기#	30-015-43822		
in	Eddy		ounty / Pari	ish New M	/lexico	_ ; and th	nat I have reviewed this	report an	d
find t	hat it conform	s to the princi	oles and pro	cedures as set fo	orth by VES	Survey li	nternational.		

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I Gene Heiss		certify that I am employed by VES Survey International. That I did on the day(s)							
of _	08/29/16	through	08/29/16	conduct or super	vise the takir	g of a	Rate Gyro	_survey from a	
dept	n of 6,58	86.54 fee	et to a depth of	9,110.50	feet; that th	e data	is true, correct, complete	and	
withi	n the limitation	ns of the to	oi as set forth b	y Vaughn Energy	Services, th	at I am	authorized and qualified		
to ma	ake this repo	rt; that this s	survey was cond	ducted at the requ	uest of		Matador Production	for the	
Dr. S	crivner Fed 0	1-24S-28E	RB Well#	208H	AP	#	30-015-43822		
in	Edd	y	County / Pari	sh New M	1exico	; and	that I have reviewed this r	eport and	
find t	hat it conform	ne to the pri	ncinles and nro	codures as set fo	orth by VES S	Survey	International		

Gene Heiss Service Technician

VES Survey International