

30-015-43444

VES

SURVEY

June 1, 2017

XTO Energy
200 N. Lorraine, Ste 800
Midland, Texas 79707

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 02 2017

RECEIVED

Attn: Drilling Department

Re: **Big Eddy Unit DI 5 No. 024H**

30-015-43444

Please find enclosed a copy of the survey from 1440' to 2761' ran on the above mentioned well.

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

Sincerely,


Jennifer Byerly
Operations

Company: XTO ENERGY
Lease/Well: BIG EDDY UNIT DI 5 No./024H

Rig Name: NORMAN 25
State/County: NEW MEXICO/EDDY
VS-Azi: 89.57 Degrees
Latitude: 32.54632, Longitude: -103.85416
Grid North = True North -0.26 degs (NAD 27)
Grid Correction Applied = -0.26 degs

VES SURVEY

Depth Reference : RKB 25 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: motors orientation-de_01.ut
Minimum Curvature Method
Report Date/Time: 6/1/2017 / 08:13

VES Survey International
West Texas
432-563-5444
Surveyor: Dustin Byers
Big Eddy Unit DI 5 No. 024H / API 30-015-43444

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
Tie-into MWD									
1440.00	0.40	2.30	1439.97	1.76	-0.10	-0.09	1.76	356.75	****
1500.00	0.63	5.55	1499.97	2.30	-0.06	-0.04	2.30	358.52	0.39
1600.00	1.48	32.51	1599.95	3.94	0.69	0.72	4.00	9.89	0.96
1700.00	2.25	40.89	1699.90	6.51	2.66	2.71	7.03	22.26	0.82
1813.00	2.52	55.00	1812.78	10.01	6.40	6.47	11.88	32.58	1.86
1855.00	2.96	66.99	1854.72	11.04	8.36	8.43	13.84	37.11	1.18
1909.00	2.81	72.01	1908.66	12.04	10.79	10.88	16.17	41.87	0.98
1941.00	2.23	80.65	1940.63	12.40	12.14	12.24	17.36	44.39	2.20
1972.00	1.61	99.28	1971.61	12.48	13.15	13.25	18.13	46.49	3.19
2004.00	1.25	138.45	2003.60	12.20	13.83	13.92	18.44	48.58	3.58
2035.00	1.86	180.81	2034.59	11.52	14.09	14.18	18.20	50.74	4.18
2098.00	3.00	205.69	2097.54	9.17	13.42	13.49	16.26	55.67	2.85
2193.00	3.77	221.32	2192.38	4.64	10.35	10.39	11.35	65.85	1.35
2287.00	4.18	226.85	2286.15	0.06	5.66	5.66	5.66	89.35	0.43
2382.00	4.70	228.91	2380.86	-4.76	0.07	0.03	4.76	179.17	0.51

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
2476.00	4.18	236.20	2474.57	-9.24	-5.86	-5.93	10.94	212.38	0.91
2570.00	2.61	267.71	2568.41	-11.34	-10.83	-10.91	15.68	223.69	2.66
2662.00	2.52	282.46	2660.31	-10.91	-14.94	-15.02	18.50	233.85	0.84
2761.00	2.86	278.70	2759.20	-10.07	-19.57	-19.64	22.00	242.77	0.32

VES Survey International
West Texas
432-563-5444
Surveyor: Dustin Byers
Big Eddy Unit DI 5 No. 024H / API 30-015-43444

VES SURVEY

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N/S-
S/N

0

Depth=1440.0, Inc=0.4, AzG=2.3
Tie-Into
MWD

Depth=2761.2, Inc=2.9, AzG=279.5

0

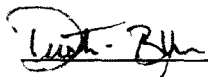
-W/+E

VES Survey Date: 5/26/2017

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VES SURVEY

I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 05/26/17 through 05/26/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 1,500.00 feet to a depth of 2,761.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy for the Big Eddy Unit DI 5 Well # 024H API # 30-015-43444 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.



Dustin Byers
Service Technician
VES Survey International