NorAm Drilling Company

A GLOBAL RIG COMPANY ASA

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 26 2017
RECEIVED

Operator: XTO Energy

Well & Lease Number: NASH UNIT 55H

County: Eddy

30-015-43864

Contractor: NorAm Drilling Rig#25

State of New Mexico

Deviation Report

280.99	2.07
562.78	3.15
938.5	0.52
1220.29	0.6
1502.08	0.51
1877.8	0.35
2159.59	0.21
2629.24	0.64
3192.82	0.16
3662.47	0.29
4132.12	0.41
4601.77	0.4
5165.35	0.52
5699	0.8

Provide directional survey tie-in to TD

Completed by: Will Luker

Will Luker, Safety Director
NorAm Drilling Company

PHYLLIS L. HOWE
Notary Public, State of Texas
Comm. Expires 05-27-2021
Notary ID 1558594

Appeared before me on: 3/22/17

Notary Public: Phyllis L. Howe

8400 N. Sam Houston Parkway West • Suite 120 • Houston, TX 77064 USA • Phone: (281) 598-9200 • Fax (281) 598-9220

1804 Rotary Drive • Humble, TX 77338 USA • Phone: (281) 540-7070 • Fax (281) 540-7071

www.noramdrilling.com

VES SURVEY INTERNATIONAL

December 22, 2016

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

Attn: Drilling Department

Re: **Nash Unit No. 055H**

Please find enclosed a copy of the survey from 0' to 5635' 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

VES Survey International
P.O. Box 261021, Corpus Christi, Texas 78426
T (361) 767-0602 F (361) 767-0612
www.vessurvey.com

Company: XTO Energy
Lease/Well: Nash Unit No./055H

Rig Name: Noram 25
State/County: New Mexico/Eddy
VS-Azi: 0.00 Degrees
Latitude: 32.30679, Longitude: -103.94452
Grid North = True North -0.21 degs (NAD 27)
Grid Correction Applied = -0.21 degs

VES SURVEY

Depth Reference : RKB = 25 Foot

DRILLOG MS GYRO SURVEY CALCULATIONS
Filename: dropgyro-01-de_02.ut
Minimum Curvature Method
Report Date/Time: 12/22/2016 / 15:20

VES Survey International
Midland Tx
(432) 563-5444
Surveyor: Gene Heiss
Nash Unit No. 055H / API 30-015-43864

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
93.13	0.55	18.16	93.13	0.43	0.14	0.43	0.45	18.16	0.59
187.06	1.27	129.54	187.05	0.19	1.09	0.19	1.10	79.95	1.66
280.99	2.07	123.64	280.94	-1.41	3.31	-1.41	3.60	113.15	0.87
374.92	2.34	128.90	374.80	-3.56	6.22	-3.56	7.16	119.81	^
468.85	2.34	127.49	468.65	-5.94	9.23	-5.94	10.98	122.73	0.06
562.78	3.15	129.61	562.47	-8.75	12.75	-8.75	15.46	124.47	0.87
656.71	3.57	133.27	656.24	-12.40	16.87	-12.40	20.94	126.33	0.51
750.64	2.73	131.06	750.03	-15.88	20.69	-15.88	26.08	127.51	0.90
844.57	0.21	120.17	843.92	-17.44	22.52	-17.44	28.49	127.75	2.70
938.50	0.52	311.02	937.85	-17.24	22.35	-17.24	28.23	127.65	0.77
1032.43	0.25	209.75	1031.78	-17.15	21.92	-17.15	27.83	128.03	0.66
1126.36	0.55	176.76	1125.70	-17.77	21.84	-17.77	28.16	129.13	0.38
1220.29	0.60	190.87	1219.63	-18.70	21.78	-18.70	28.71	130.66	0.16
1314.22	0.67	198.82	1313.55	-19.70	21.51	-19.70	29.17	132.49	0.12
1408.15	0.62	204.17	1407.48	-20.69	21.12	-20.69	29.57	134.41	0.08
1502.08	0.51	203.14	1501.40	-21.54	20.75	-21.54	29.91	136.07	0.12

VES Survey Date: 12/14/2016

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
1596.01	0.25	208.90	1595.33	-22.10	20.48	-22.10	30.14	137.18	0.28
1689.94	0.28	239.04	1689.26	-22.40	20.19	-22.40	30.16	137.97	0.15
1783.87	0.35	253.63	1783.19	-22.60	19.72	-22.60	29.99	138.89	0.11
1877.80	0.35	227.83	1877.12	-22.87	19.23	-22.87	29.88	139.94	0.17
1971.73	0.33	225.31	1971.05	-23.26	18.83	-23.26	29.92	141.00	0.03
2065.66	0.21	252.10	2064.97	-23.50	18.48	-23.50	29.89	141.82	0.18
2159.59	0.21	264.17	2158.90	-23.56	18.15	-23.56	29.74	142.40	0.05
2253.52	0.16	174.89	2252.83	-23.71	17.99	-23.71	29.77	142.81	0.28
2347.45	0.69	157.73	2346.76	-24.37	18.22	-24.37	30.43	143.22	0.57
2441.38	1.11	155.08	2440.68	-25.71	18.81	-25.71	31.86	143.81	0.45
2535.31	0.79	161.57	2534.60	-27.16	19.40	-27.16	33.38	144.46	0.35
2629.24	0.64	160.60	2628.52	-28.27	19.78	-28.27	34.50	145.01	
2723.17	0.79	156.78	2722.44	-29.36	20.21	-29.36	35.64	145.45	0.17
2817.10	0.77	155.65	2816.36	-30.53	20.73	-30.53	36.90	145.83	0.03
2911.03	0.64	149.94	2910.29	-31.56	21.25	-31.56	38.05	146.05	0.16
3004.96	0.30	168.18	3004.21	-32.26	21.57	-32.26	38.80	146.23	0.39
3098.89	0.16	225.99	3098.14	-32.59	21.52	-32.59	39.05	146.56	0.27
3192.82	0.16	264.59	3192.07	-32.69	21.30	-32.69	39.02	146.91	0.11
3286.75	0.16	257.19	3286.00	-32.73	21.04	-32.73	38.91	147.26	0.02
3380.68	0.11	286.31	3379.93	-32.74	20.83	-32.74	38.80	147.54	0.09
3474.61	0.13	175.92	3473.86	-32.82	20.75	-32.82	38.83	147.70	0.22
3568.54	0.25	215.46	3567.79	-33.10	20.63	-33.10	39.00	148.06	0.18
3662.47	0.29	219.80	3661.72	-33.44	20.36	-33.44	39.16	148.66	0.04
3756.40	0.32	222.65	3755.65	-33.81	20.04	-33.81	39.31	149.35	0.04
3850.33	0.35	220.77	3849.58	-34.22	19.68	-34.22	39.48	150.10	0.03
3944.26	0.38	226.13	3943.50	-34.65	19.27	-34.65	39.65	150.93	0.05
4038.19	0.39	223.38	4037.43	-35.10	18.83	-35.10	39.83	151.79	
4132.12	0.41	234.77	4131.36	-35.52	18.33	-35.52	39.97	152.70	0.09
4226.05	0.44	229.67	4225.29	-35.95	17.78	-35.95	40.11	153.68	0.06
4319.98	0.44	228.50	4319.21	-36.43	17.23	-36.43	40.30	154.68	0.01
4413.91	0.45	221.70	4413.14	-36.94	16.71	-36.94	40.55	155.66	0.06
4507.84	0.36	214.32	4507.07	-37.46	16.30	-37.46	40.86	156.49	0.11
4601.77	0.40	211.35	4601.00	-37.99	15.96	-37.99	41.21	157.21	0.05
4695.70	0.40	203.72	4694.92	-38.57	15.66	-38.57	41.63	157.90	0.06
4789.63	0.48	194.42	4788.85	-39.25	15.43	-39.25	42.17	158.54	0.11
4883.56	0.52	194.71	4882.78	-40.04	15.23	-40.04	42.84	159.18	0.04
4977.49	0.52	192.68	4976.70	-40.86	15.03	-40.86	43.53	159.81	0.02
5071.42	0.51	197.39	5070.63	-41.67	14.81	-41.67	44.22	160.43	0.05
5165.35	0.52	199.67	5164.56	-42.47	14.54	-42.47	44.89	161.10	0.03

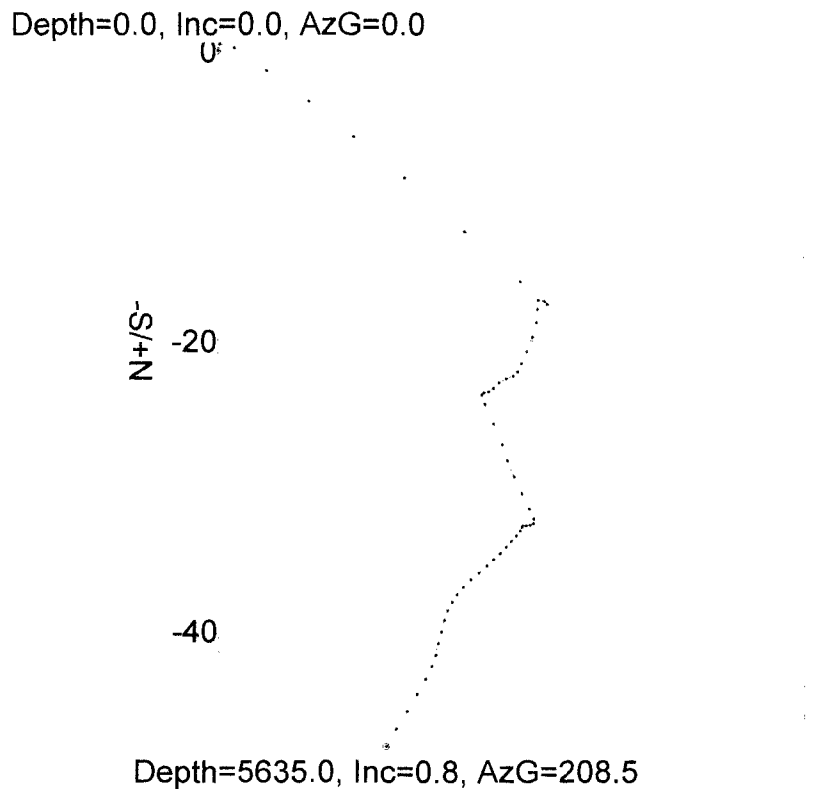
VES Survey Date: 12/14/2016

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
5259.28	0.66	210.25	5258.48	-43.34	14.13	-43.34	45.58	161.95	0.18
5353.21	0.83	207.35	5352.40	-44.40	13.54	-44.40	46.42	163.04	0.19
5447.14	0.87	211.02	5446.32	-45.62	12.86	-45.62	47.40	164.25	0.07
5541.07	0.85	211.91	5540.24	-46.82	12.13	-46.82	48.37	165.48	0.03
5635.00	0.85	208.50	5634.16	-48.02	11.43	-48.02	49.37	166.62	0.05

VES Survey Date: 12/14/2016

VES Survey International
Midland Tx
(432) 563-5444
Surveyor: Gene Heiss
Nash Unit No. 055H / API 30-015-43864

VES SURVEY



VES Survey Date: 12/14/2016

VES SURVEY

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 26 2017
RECEIVED

I Gene Heiss certify that I am employed by VES Survey International. That I did on the day(s) of 12/14/16 through 12/14/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 5,635.00 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 Nash Unit Well # 055H API # 30-015-43864 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.

Gene Heiss
Service Technician
VES Survey International

EOW REPORT

Energy Services

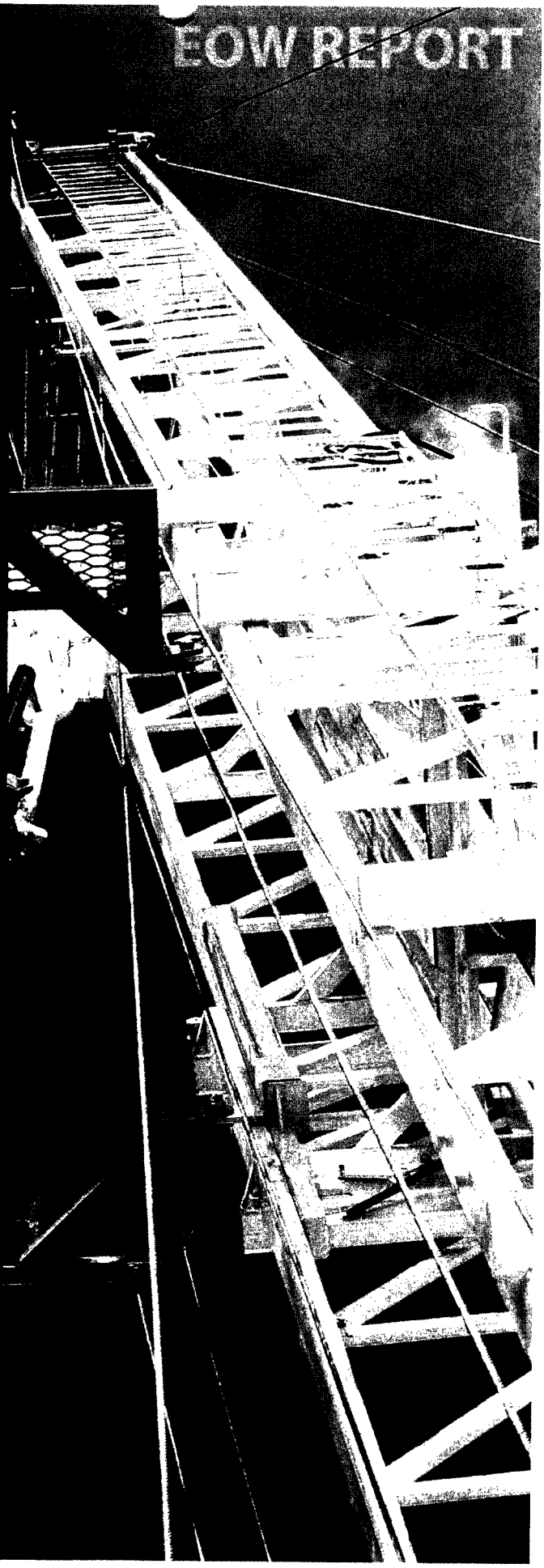
[redacted]

XTO Energy

Nash Unit 55H

Eddy County, New Mexico

Noram 25



Prepared by:

Vanessa Scott