

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

NMOCD - Rec'd 10/02/2020

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AS-DRILLED PLAT

¹ API Number 30-015-45503	² Pool Code 98241	³ Pool Name WC-015 G-05 S233031K; WOLFCAMP
⁴ Property Code 303152	⁵ Property Name NASH UNIT	⁶ Well Number 401H
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁹ Elevation 3,117'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	19	23 S	30 E		140	NORTH	580	EAST	EDDY

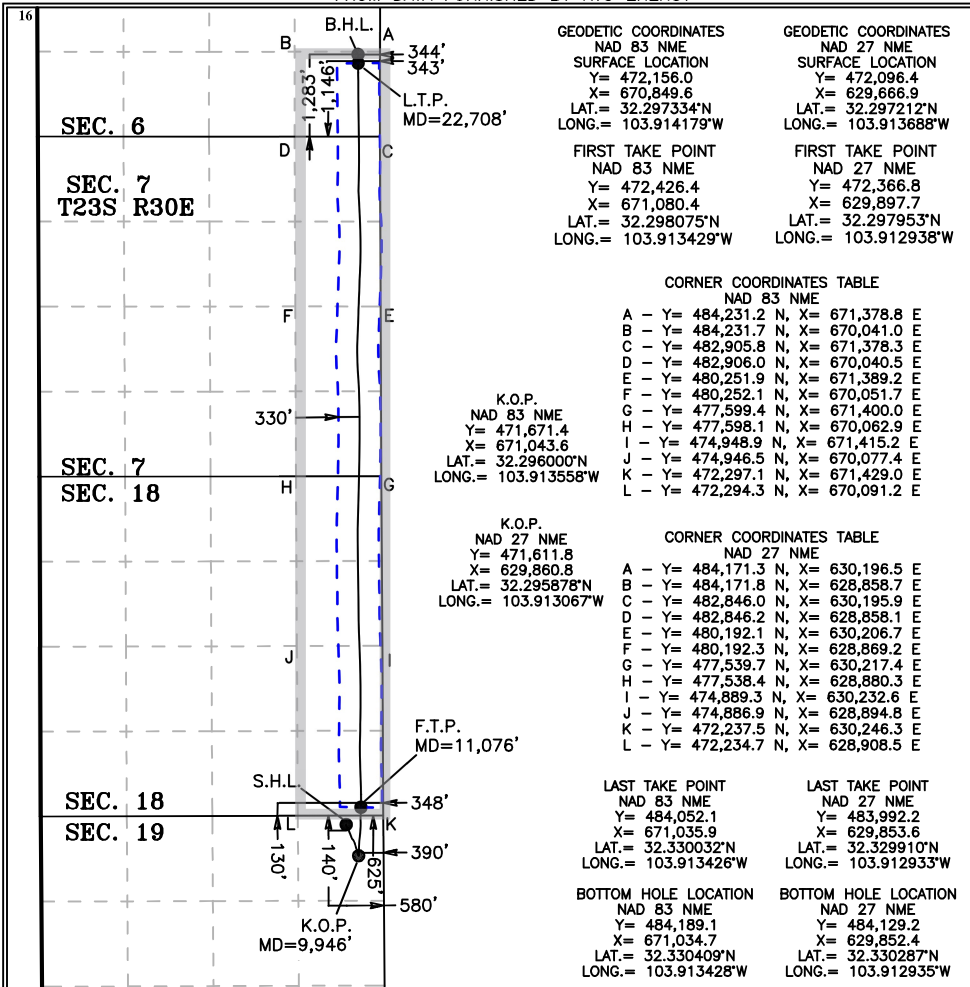
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	23 S	30 E		1,283	SOUTH	344	EAST	EDDY

¹² Dedicated Acres 360	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--------------------------------------	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED
FROM DATA FURNISHED BY XTO ENERGY



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cheryl Rowell 3/31/20
Signature Date

CHERYL ROWELL

Printed Name

cheryl_rowell@xtoenergy.com

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

3-11-2020

Date of Survey

Signature and Seal of
Professional Surveyor:

MARK DILLON HARP 23786
Certificate Number

JC

2019072170



Intent ☐ As Drilled ☒

API # 30-015-45500			
Operator Name: XTO ENERGY, INC.		Property Name: NASH UNIT	Well Number 301H

Kick Off Point (KOP)

UL A	Section 19	Township 23S	Range 30E	Lot	Feet 90	From N/S NORTH	Feet 580	From E/W EAST	County EDDY
Latitude 32.296437					Longitude 103.913025				NAD 83

First Take Point (FTP)

UL P	Section 18	Township 23S	Range 30E	Lot	Feet 299	From N/S SOUTH	Feet 362	From E/W EAST	County EDDY
Latitude 32.298539					Longitude 103.913476				NAD 83

Last Take Point (LTP)

UL P	Section 6	Township 23S	Range 30E	Lot	Feet 1145	From N/S SOUTH	Feet 381	From E/W EAST	County EDDY
Latitude 32.330029					Longitude 103.913548				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☒

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 30-015-45494			
Operator Name: XTO Energy, Inc.		Property Name: NASH UNIT	Well Number 201H

KZ 06/29/2018

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)



March 18, 2019

XTO Energy Inc.

19, 23S, 30E, Eddy NM
32.29734 103.91418

Re:

CLIENT: XTO Energy Inc.
WELL: Nash Unit 401H
FIELD: Wildcat-Wolfcamp

RIG: Orion 13
COUNTY: Eddy
API NO: 30-015-45503
JOB NO: 19MLD4374

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
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>
Andres Hernandez FE	Nash Unit 401H Original Hole	19470.00 Ft to 22764.00 Ft	March 7, 2019 to March 10, 2019	SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Jermaine Allen
Field Service Manager

Schlumberger-Private

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:
19, 23S, 30E, Eddy NM
32.29734 103.91418

I, Andres Hernandez certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of March 07, 2019 through March 10, 2019, conduct or supervise the taking of the SlimPulse surveys from a depth of 19470.00 feet to a depth of 22764.00 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 XTO Energy Inc. for the Nash Unit 401H Well (Original Hole) API No. 30-015-45503 in New Mexico; 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.

By
Andres Hernandez
FE



Subscribed and Sworn to before me this 18th day of march (month) 2019 (yr)

My Commission expires:

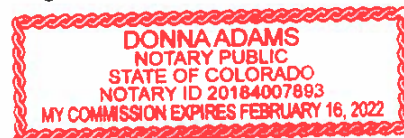
2-16-2022

Donna Adams

Notary Public

Adams County Colorado
(County State)

(signature)





I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/08/18** thru **11/28/18** conduct or supervise the taking of a **MWD Survey** from a depth of **464'** to a depth of **12133'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **XTO Energy Inc** for the **Remuda North 31 State 164H** API No. **30-015-45310** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

Larry
Wright

Digitally signed
by Larry Wright
Date:
2020.03.31
11:38:50 -05'00'

*13901 Hwy 105W, Conroe, Texas
77304
PH 936-539-9602*

XTO Nash Unit 401H Survey Report

Report Date:	March 10, 2019 - 11:51 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	XTO Energy	Vertical Section Azimuth:	0.830 ° (Grid North)
Field:	NM Eddy County (NAD 27)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	XTO Nash Unit 401H / New Slot	TVD Reference Datum:	RKB
Well:	Nash Unit 401H	TVD Reference Elevation:	3139.000 ft above MSL
Borehole:	Nash Unit 401H	Seabed / Ground Elevation:	3117.000 ft above MSL
UWI / API#:	Unknown / 3001545503	Magnetic Declination:	6.984 °
Survey Name:	XTO Nash Unit 401H 0ft to Update	Total Gravity Field Strength:	998.4696mgn (9.80665 Based)
Survey Date:	March 01, 2019	Gravity Model:	GARM
Tort / AHD / DDI / ERD Ratio:	317.231 ° / 13061.062 ft / 6.950 / 1.231	Total Magnetic Field Strength:	47966.338 nT
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Dip Angle:	60.043 °
Location Lat / Long:	N 32° 17' 49.96341", W 103° 54' 49.27751"	Declination Date:	March 01, 2019
Location Grid N/E Y/X:	N 472096.400 ftUS, E 629666.900 ftUS	Magnetic Declination Model:	HDGM 2019
CRS Grid Convergence Angle:	0.2242 °	North Reference:	Grid North
Grid Scale Factor:	0.99992835	Grid Convergence Used:	0.2242 °
Version / Patch:	2.10.706.0	Total Corr Mag North->Grid North:	6.7596 °
		Local Coord Referenced To:	Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Tie-In	0.00	0.00	0.00	0.00	0.00	N 0.00	E 0.00	0.00	0.00	N/A	0M
	22.00	0.00	0.00	22.00	0.00	N 0.00	E 0.00	0.00	0.00	0.00	223M
	105.00	0.07	223.00	105.00	-0.04	S 0.04	W 0.03	0.05	223.00	0.08	281M
	193.00	1.20	281.00	192.99	0.09	N 0.10	W 0.98	0.98	275.82	1.32	193M
	352.00	0.80	193.00	351.98	-0.71	S 0.66	W 2.86	2.94	256.92	0.89	181.3M
	416.00	0.50	181.30	415.97	-1.42	S 1.38	W 2.97	3.27	245.07	0.51	235.7M
	511.00	0.30	235.70	510.97	-1.98	S 1.93	W 3.18	3.72	238.71	0.43	196.5M
	606.00	1.20	196.50	605.96	-3.08	S 3.03	W 3.67	4.76	230.48	1.04	183.6M
	701.00	2.10	183.60	700.92	-5.78	S 5.72	W 4.06	7.01	215.38	1.02	174.4M
	797.00	2.00	174.40	796.86	-9.20	S 9.14	W 4.01	9.98	203.68	0.36	156.7M
	892.00	2.20	156.70	891.80	-12.51	S 12.47	W 3.13	12.85	194.08	0.71	153.4M
	959.00	2.30	153.40	958.75	-14.88	S 14.85	W 2.01	14.99	187.73	0.24	154.8M
	1055.00	2.50	154.80	1054.66	-18.47	S 18.47	W 0.26	18.47	180.81	0.22	162.1M
	1149.00	2.70	162.10	1148.56	-22.41	S 22.43	E 1.29	22.46	176.70	0.41	150.8M
	1245.00	3.00	150.80	1244.45	-26.72	S 26.77	E 3.21	26.96	173.16	0.66	155.6M
	1340.00	3.30	155.60	1339.30	-31.35	S 31.43	E 5.56	31.92	169.98	0.42	154.7M
	1437.00	3.60	154.70	1436.13	-36.61	S 36.73	E 8.01	37.59	167.70	0.31	154.6M
	1533.00	3.20	154.60	1531.96	-41.72	S 41.87	E 10.45	43.16	165.99	0.42	143.9M
	1627.00	2.10	143.90	1625.86	-45.45	S 45.64	E 12.59	47.34	164.58	1.28	139.4M
	1722.00	1.70	139.40	1720.80	-47.90	S 48.11	E 14.53	50.26	163.19	0.45	126.3M
	1818.00	1.90	126.30	1816.76	-49.89	S 50.13	E 16.74	52.86	161.54	0.48	125.3M
	1914.00	1.80	125.30	1912.71	-51.66	S 51.95	E 19.25	55.40	159.66	0.11	127M
	2009.00	1.50	127.00	2007.67	-53.24	S 53.56	E 21.46	57.70	158.16	0.32	152.5M
	2104.00	1.00	152.50	2102.65	-54.71	S 55.04	E 22.84	59.59	157.46	0.78	154M
	2199.00	1.40	154.00	2197.62	-56.47	S 56.82	E 23.73	61.58	157.33	0.42	174.2M
	2294.00	1.50	174.20	2292.59	-58.74	S 59.10	E 24.37	63.93	157.60	0.55	183.7M
	2389.00	1.30	183.70	2387.57	-61.05	S 61.41	E 24.42	66.09	158.31	0.32	181.2M
	2485.00	1.90	181.20	2483.53	-63.73	S 64.09	E 24.32	68.55	159.22	0.63	169.3M
	2581.00	2.00	169.30	2579.47	-66.97	S 67.33	E 24.60	71.68	159.93	0.43	149.1M
	2676.00	3.40	149.10	2674.37	-70.99	S 71.37	E 26.35	76.08	159.74	1.76	142.3M
	2771.00	4.70	142.30	2769.13	-76.43	S 76.87	E 30.18	82.58	158.57	1.46	144.8M
	2866.00	3.30	144.80	2863.90	-81.68	S 82.19	E 34.13	88.99	157.45	1.48	147.4M
	2961.00	4.60	147.40	2958.67	-87.07	S 87.63	E 37.76	95.42	156.69	1.38	153.4M
	3057.00	5.10	153.40	3054.32	-94.07	S 94.69	E 41.75	103.48	156.21	0.74	158.6M
	3152.00	5.20	158.60	3148.94	-101.81	S 102.47	E 45.21	112.00	156.19	0.50	167.2M
	3248.00	2.80	167.20	3244.70	-108.11	S 108.81	E 47.32	118.65	156.50	2.57	172.7M
	3277.00	2.00	172.70	3273.68	-109.30	S 110.00	E 47.54	119.83	156.63	2.87	170.7M
	3454.00	2.00	170.70	3450.57	-115.40	S 116.11	E 48.43	125.81	157.36	0.04	155.8M
	3534.00	2.30	155.80	3530.51	-118.23	S 118.96	E 49.31	128.77	157.48	0.79	148.5M
	3630.00	3.40	148.50	3626.39	-122.38	S 123.14	E 51.59	133.51	157.27	1.20	150.9M
	3725.00	4.00	150.90	3721.19	-127.63	S 128.44	E 54.67	139.59	156.94	0.65	153.7M
	3820.00	3.90	153.70	3815.97	-133.38	S 134.23	E 57.72	146.11	156.73	0.23	160.8M
	3915.00	3.90	160.80	3910.75	-139.29	S 140.18	E 60.21	152.56	156.76	0.51	163.6M
	4010.00	4.00	163.60	4005.52	-145.49	S 146.41	E 62.21	159.07	156.98	0.23	159.8M
	4105.00	4.30	159.80	4100.27	-151.98	S 152.93	E 64.37	165.92	157.17	0.43	162M
	4200.00	4.10	162.00	4195.02	-158.52	S 159.50	E 66.65	172.87	157.32	0.27	161.7M
	4295.00	4.20	161.70	4289.77	-165.02	S 166.03	E 68.79	179.72	157.49	0.11	156.3M
	4391.00	4.10	156.30	4385.52	-171.46	S 172.51	E 71.28	186.66	157.55	0.42	155.2M
	4485.00	4.20	155.20	4479.27	-177.62	S 178.71	E 74.07	193.46	157.49	0.14	157.6M
	4582.00	4.40	157.60	4576.00	-184.24	S 185.38	E 76.98	200.73	157.45	0.28	157.5M
	4677.00	4.50	157.50	4670.71	-191.01	S 192.19	E 79.79	208.10	157.45	0.11	157M
	4773.00	4.60	157.00	4766.41	-197.99	S 199.21	E 82.74	215.71	157.45	0.11	150.8M
	4870.00	4.50	150.80	4863.10	-204.85	S 206.12	E 86.12	223.38	157.32	0.52	152.3M
	4966.00	4.30	152.30	4958.82	-211.27	S 212.59	E 89.63	230.71	157.14	0.24	153.9M
	5061.00	4.30	153.90	5053.55	-217.57	S 218.94	E 92.85	237.82	157.02	0.13	149.1M
	5157.00	4.30	149.10	5149.28	-223.84	S 225.26	E 96.28	244.97	156.86	0.37	149.7M
	5252.00	4.50	149.70	5244.00	-230.06	S 231.54	E 99.99	252.20	156.64	0.22	148.3M
	5348.00	4.60	148.30	5339.70	-236.53	S 238.06	E 103.91	259.75	156.42	0.16	144.9M
	5444.00	4.80	144.90	5435.38	-243.03	S 244.62	E 108.24	267.50	156.13	0.36	144M
	5540.00	5.00	144.00	5531.03	-249.63	S 251.29	E 113.01	275.54	155.79	0.22	139.2M
	5635.00	5.10	139.20	5625.66	-256.10	S 257.84	E 118.21	283.64	155.37	0.46	147.6M
	5731.00	5.10	147.60	5721.28	-262.86	S 264.67	E 123.28	291.98	155.02	0.78	154.1M
	5827.00	4.70	154.10	5816.93	-269.94	S 271.81	E 127.28	300.14	154.91	0.71	161.5M
	5922.00	3.80	161.50	5911.67	-276.39	S 278.30	E 129.98	307.16	154.96	1.11	162.6M
	6017.00	3.90	162.60	6006.46	-282.43	S 284.37	E 131.95	313.49	155.11	0.13	160M
	6113.00	3.80	160.00	6102.24	-288.50	S 290.47	E 134.01	319.90	155.23	0.21	160.1M
	6208.00	4.20	160.10	6197.01	-294.70	S 296.70	E 136.27	326.50	155.33	0.42	165.1M
	6304.00	4.50	165.10	6292.73	-301.61	S 303.65	E 138.44	333.72	155.49	0.50	165.8M
	6398.00	4.50	165.80	6386.44	-308.72	S 310.79	E 140.29	340.98	155.71	0.06	163M
	6493.00	4.60	163.00	6481.14	-315.95	S 318.04	E 142.32	348.43	155.89	0.26	163.8M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	6588.00	4.90	163.80	6575.82	-323.45	S 325.58	E 144.56	356.23	156.06	0.32	158.4M
	6682.00	5.20	158.40	6669.45	-331.23	S 333.40	E 147.25	364.47	156.17	0.60	162M
	6778.00	5.00	162.00	6765.07	-339.21	S 341.42	E 150.15	372.98	156.26	0.39	163.1M
	6874.00	5.10	163.10	6860.70	-347.23	S 349.48	E 152.68	381.38	156.40	0.14	160.5M
	6970.00	5.10	160.50	6956.32	-355.30	S 357.59	E 155.35	389.87	156.52	0.24	165.6M
	7066.00	5.00	165.60	7051.95	-363.34	S 365.66	E 157.81	398.26	156.66	0.48	165.3M
	7161.00	5.10	165.30	7146.58	-371.40	S 373.76	E 159.91	406.53	156.84	0.11	161.1M
	7256.00	5.00	161.10	7241.21	-379.36	S 381.76	E 162.32	414.83	156.96	0.40	156.7M
	7352.00	4.20	156.70	7336.90	-386.51	S 388.94	E 165.07	422.52	157.00	0.91	152.5M
	7447.00	3.10	152.50	7431.71	-391.95	S 394.42	E 167.63	428.56	156.97	1.19	159.2M
	7542.00	2.60	159.20	7526.59	-396.21	S 398.71	E 169.58	433.28	156.96	0.63	174.1M
	7637.00	2.20	174.10	7621.51	-400.03	S 402.54	E 170.54	437.17	157.04	0.78	191.7M
	7692.00	1.70	191.70	7676.47	-401.87	S 404.39	E 170.48	438.85	157.14	1.41	216.4M
	7839.00	2.10	216.40	7823.40	-406.21	S 408.69	E 168.44	442.04	157.60	0.61	206.9M
	7934.00	1.90	206.90	7918.34	-409.04	S 411.50	E 166.69	443.98	157.95	0.41	161.2M
	8030.00	2.30	161.20	8014.28	-412.28	S 414.74	E 166.59	446.95	158.12	1.74	143.7M
	8126.00	2.90	143.70	8110.18	-416.03	S 418.52	E 168.65	451.22	158.05	1.03	150.9M
	8221.00	2.50	150.90	8205.08	-419.74	S 422.27	E 171.08	455.61	157.94	0.55	145.7M
	8316.00	3.70	145.70	8299.94	-424.05	S 426.61	E 173.82	460.66	157.83	1.30	148.3M
	8410.00	3.40	148.30	8393.75	-428.88	S 431.49	E 176.99	466.38	157.70	0.36	156.8M
	8505.00	3.00	156.80	8488.61	-433.52	S 436.17	E 179.45	471.64	157.64	0.65	149M
	8600.00	3.00	149.00	8583.48	-437.91	S 440.58	E 181.71	476.58	157.59	0.43	147.6M
	8695.00	2.20	147.60	8678.38	-441.54	S 444.25	E 183.97	480.84	157.51	0.84	158.8M
	8791.00	2.20	158.80	8774.31	-444.79	S 447.53	E 185.62	484.50	157.47	0.45	165.6M
	8885.00	2.50	165.60	8868.23	-448.44	S 451.20	E 186.78	488.33	157.51	0.44	175.9M
	8981.00	3.00	175.90	8964.12	-452.97	S 455.73	E 187.48	492.79	157.64	0.73	179.4M
	9078.00	2.90	179.40	9060.99	-457.95	S 460.72	E 187.69	497.48	157.83	0.21	176.6M
	9174.00	2.00	176.60	9156.90	-462.05	S 464.82	E 187.82	501.33	158.00	0.95	163.8M
	9270.00	1.50	163.80	9252.86	-464.92	S 467.69	E 188.27	504.16	158.07	0.66	167.4M
	9366.00	1.50	167.40	9348.82	-467.34	S 470.13	E 188.89	506.66	158.11	0.10	157.4M
	9460.00	2.20	157.40	9442.78	-470.19	S 472.99	E 189.85	509.67	158.13	0.82	161.6M
	9555.00	2.10	161.60	9537.71	-473.51	S 476.33	E 191.10	513.23	158.14	0.20	167.3M
	9651.00	2.30	167.30	9633.64	-477.04	S 479.88	E 192.08	516.89	158.19	0.31	153.6M
	9747.00	1.30	153.60	9729.59	-479.89	S 482.73	E 192.99	519.88	158.21	1.13	159.1M
	9842.00	0.80	159.10	9824.57	-481.46	S 484.32	E 193.70	521.62	158.20	0.54	143.6M
	9888.00	0.30	143.60	9870.57	-481.85	S 484.71	E 193.89	522.05	158.20	1.12	357.2M
	9964.00	0.60	357.20	9946.57	-481.62	S 484.48	E 193.99	521.87	158.18	1.14	358.4M
	10012.00	3.80	358.40	9994.53	-479.77	S 482.63	E 193.93	520.14	158.11	6.67	12.4M
	10060.00	7.10	12.40	10042.31	-475.28	S 478.15	E 194.53	516.20	157.86	7.36	11M
	10108.00	12.70	11.00	10089.57	-467.17	S 470.06	E 196.17	509.35	157.35	11.68	26.4L
	10155.00	17.00	3.90	10135.00	-455.22	S 458.13	E 197.62	498.94	156.67	9.92	10.94L
	10203.00	22.60	1.10	10180.14	-438.98	S 441.89	E 198.28	484.34	155.83	11.83	13.84L
	10251.00	28.20	358.20	10223.49	-418.41	S 421.32	E 198.10	465.57	154.82	11.95	2.69L
	10299.00	34.20	357.70	10264.53	-393.58	S 396.48	E 197.20	442.82	153.56	12.51	11.28R
	10346.00	39.30	359.30	10302.17	-365.50	S 368.38	E 196.49	417.51	151.93	11.04	24.87R
	10394.00	44.50	2.70	10337.89	-333.46	S 336.35	E 197.10	389.85	149.63	11.82	68.24R
	10442.00	46.50	9.00	10371.55	-299.40	S 302.33	E 200.61	362.84	146.43	10.24	14.82L
	10490.00	52.20	7.10	10402.81	-263.28	S 266.29	E 205.69	336.48	142.32	12.25	18.45L
	10537.00	56.20	5.50	10430.30	-225.34	S 228.41	E 209.85	310.18	137.42	8.95	5.11L
	10585.00	58.10	5.30	10456.33	-185.15	S 188.26	E 213.65	284.76	131.39	3.97	14.84L
	10632.00	59.40	4.90	10480.72	-145.08	S 148.24	E 217.22	262.98	124.31	2.86	19.28L
	10680.00	60.90	4.30	10504.61	-103.54	S 106.75	E 220.56	245.03	115.83	3.31	37.1L
	10728.00	63.40	2.20	10527.03	-61.14	S 64.38	E 222.95	232.06	106.11	6.49	12.37L
	10776.00	65.90	1.60	10547.58	-17.78	S 21.03	E 224.39	225.37	95.35	5.33	16.16L
	10824.00	68.80	0.70	10566.06	26.51	N 23.25	E 225.27	226.47	84.11	6.28	11.14L
	10872.00	75.20	359.40	10580.89	72.14	N 68.88	E 225.30	235.60	73.00	13.58	11.15R
	10919.00	79.70	0.30	10591.10	117.99	N 114.74	E 225.19	252.74	63.00	9.76	40.6R
	10967.00	81.90	2.20	10598.77	165.37	N 162.11	E 226.22	278.31	54.38	6.02	48.68R
	11016.00	83.30	3.80	10605.08	213.92	N 210.63	E 228.77	310.97	47.36	4.32	35.14L
	11064.00	88.00	0.50	10608.72	261.75	N 258.44	E 230.56	346.34	41.74	11.95	25.47R
	11111.00	90.10	1.50	10609.50	308.74	N 305.42	E 231.38	383.17	37.15	4.95	114.78L
	11207.00	89.50	0.20	10609.84	404.74	N 401.41	E 232.80	464.03	30.11	1.49	66.04L
	11303.00	90.30	358.40	10610.01	500.70	N 497.40	E 231.63	548.69	24.97	2.05	161.57L
	11398.00	89.10	358.00	10610.50	595.60	N 592.35	E 228.65	634.94	21.11	1.33	HS
	11493.00	90.00	358.00	10611.25	690.48	N 687.29	E 225.33	723.28	18.15	0.95	70.34R
	11589.00	90.50	359.40	10610.83	786.41	N 783.26	E 223.15	814.43	15.90	1.55	58.22L
	11684.00	91.80	357.30	10608.92	881.29	N 878.19	E 220.42	905.43	14.09	2.60	167.66R
	11780.00	88.60	358.00	10608.59	977.13	N 974.10	E 216.48	997.86	12.53	3.41	15.26R
	11875.00	90.80	358.60	10609.09	1072.03	N 1069.05	E 213.66	1090.19	11.30	2.40	104.61R
	11969.00	90.20	0.90	10608.27	1166.00	N 1163.04	E 213.25	1182.43	10.39	2.53	34.99L
	12064.00	91.20	0.20	10607.11	1260.99	N 1258.02	E 214.17	1276.12	9.66	1.28	HS
	12091.00	91.50	0.20	10606.47	1287.98	N 1285.02	E 214.26	1302.76	9.47	1.11	103.22R
	12186.00	91.10	1.90	10604.31	1382.96	N 1379.97	E 216.00	1396.77	8.90	1.84	14.03L
	12280.00	92.30	1.60	10601.53	1476.90	N 1473.88	E 218.87	1490.05	8.45	1.32	37.33L
	12376.00	94.00	0.30	10596.25	1572.75	N 1569.72	E 220.46	1585.13	7.99	2.23	167.48L
	12470.00	92.20	359.90	10591.17	1666.60	N 1663.58	E 220.62	1678.14	7.55	1.96	83.64R
	12566.00	92.30	0.80	10587.40	1762.52	N 1759.50	E 221.21	1773.35	7.17	0.94	176.99L
	12661.00	90.40	0.70	10585.16	1857.49	N 1854.46	E 222.45	1867.76	6.84	2.00	30.96L
	12756.00	90.90	0.40	10584.08	1952.48	N 1949.45	E 223.36	1962.21	6.54	0.61	159.44R
	12851.00	90.10	0.70	10583.25	2047.48	N 2044.44	E 224.28	2056.71	6.26	0.90	21.8L
	12945.00	91.60	0.10	10581.86	2141.46	N 2138.43	E 224.93	2150.23	6.00	1.72	139.39L
	13040.00	90.20	358.90	10580.37	2236.42	N 2233.41	E 224.10	2244.62	5.73	1.94	175.24L
	13136.00	89.00	358.80	10581.04	2332.36	N 2329.38	E 222.18	2339.96	5.45	1.25	36.03L
	13232.00	90.10	358.00	10581.79	2428.27	N 2425.34	E 219.50	2435.25	5.17	1.42	18.43L
	13329.00	90.70	357.80	10581.11	2525.14	N 2522.27	E 215.94	2531.50	4.89	0.65	49.39R
	13424.00	91.30	358.50	10579.46	2620.02	N 2617.21	E 212.88	2625.85	4.65	0.97	90L
	13519.00	91.30	358.20	10577.30	2714.90	N 2712.15	E 210.14	2720.27	4.43	0.32	LS
	13613.00	88.40	358.20	10577.55	2808.80	N 2806.09	E 207.19	2813.73	4.22	3.09	90L
	13708.00	88.40	357.70	10580.20	2903.64	N 2900.99	E 203.79	2908.14	4.02	0.53	9.87L
	13802.00	90.70	357.30	10580.94	2997.47	N 2994.89	E 199.69	3001.54	3.81	2.48	132.71R
	13898.00	89.50	358.60	10580.77	3093.34	N 3090.83	E 196.26	3097.05	3.63	1.84	LS
	13993.00	88.30	358.60	10582.59	3188.25	N 3185.78	E 193.94	3191.68	3.48	1.26	24.45R
	14088.00	89.40	359.10	10584.50	3283.18	N 3280.74	E 192.03	3286.35	3.35	1.27	32.9R
	14184.00	91.10	0.20	10							

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	14852.00	88.30	0.30	10584.93	4046.73	N 4044.49	E 183.53	4048.66	2.60	1.04	8.33L
	14947.00	92.40		10584.35	4141.70	N 4139.47	E 183.54	4143.54	2.54	4.36	168.69L
	15043.00	89.40		10582.84	4237.64	N 4235.44	E 182.53	4239.38	2.47	3.19	101.31L
	15139.00	89.30		10583.93	4333.58	N 4331.42	E 180.60	4335.18	2.39	0.53	11.63R
	15235.00	92.70		10582.25	4429.50	N 4427.37	E 178.84	4430.98	2.31	3.62	66.74R
	15330.00	93.30	0.70	10577.28	4524.36	N 4522.24	E 178.84	4525.77	2.26	1.60	71.52R
	15425.00	93.50	1.30	10571.65	4619.19	N 4617.06	E 180.50	4620.58	2.24	0.66	167.2R
	15519.00	91.30	1.80	10567.71	4713.09	N 4710.93	E 183.04	4714.49	2.23	2.40	156.8L
	15615.00	89.90	1.20	10566.71	4809.08	N 4806.89	E 185.55	4810.47	2.21	1.59	161.57L
	15710.00	89.60	1.10	10567.12	4904.07	N 4901.87	E 187.46	4905.46	2.19	0.33	45L
	15806.00	89.80	0.90	10567.62	5000.07	N 4997.86	E 189.13	5001.43	2.17	0.29	74.06R
	15900.00	90.20	2.30	10567.62	5094.06	N 5091.82	E 191.76	5095.43	2.16	1.55	48.81L
	15995.00	90.90	1.50	10566.71	5189.04	N 5186.76	E 194.91	5190.42	2.15	1.12	LS
	16090.00	90.20	1.50	10565.80	5284.03	N 5281.72	E 197.40	5285.41	2.14	0.74	51.34L
	16184.00	90.60	1.00	10565.14	5378.02	N 5375.70	E 199.45	5379.40	2.12	0.68	3.57L
	16279.00	92.20	0.90	10562.82	5472.99	N 5470.65	E 201.02	5474.35	2.10	1.69	172.87R
	16375.00	89.80	1.20	10561.15	5568.97	N 5566.62	E 202.78	5570.31	2.09	2.52	171.03R
	16470.00	87.90	1.50	10563.05	5663.94	N 5661.57	E 205.02	5665.28	2.07	2.02	53.13L
	16566.00	88.50	0.70	10566.07	5759.89	N 5757.50	E 206.86	5761.21	2.06	1.04	128.68L
	16662.00	88.10	0.20	10568.92	5855.85	N 5853.45	E 207.61	5857.13	2.03	0.67	18.44R
	16758.00	90.50	1.00	10570.09	5951.83	N 5949.43	E 208.62	5953.09	2.01	2.64	128.66L
	16855.00	90.10	0.50	10569.58	6048.83	N 6046.42	E 209.89	6050.06	1.99	0.66	20.55L
	16950.00	90.90	0.20	10568.75	6143.82	N 6141.42	E 210.47	6145.02	1.96	0.90	164.93L
	17045.00	88.30	359.50	10569.42	6238.80	N 6236.41	E 210.22	6239.95	1.93	2.83	135.01R
	17140.00	88.20	359.60	10572.32	6333.73	N 6331.36	E 209.47	6334.82	1.89	0.15	49.4L
	17236.00	88.80	358.90	10574.83	6429.66	N 6427.32	E 208.22	6430.69	1.86	0.96	6.71R
	17331.00	90.50	359.10	10575.41	6524.60	N 6522.30	E 206.56	6525.57	1.81	1.80	33.69L
	17426.00	90.80	358.90	10574.33	6619.55	N 6617.28	E 204.90	6620.45	1.77	0.38	LS
	17519.00	90.10	358.90	10573.60	6712.49	N 6710.25	E 203.12	6713.33	1.73	0.75	65.55L
	17613.00	90.60	357.80	10573.03	6806.40	N 6804.21	E 200.41	6807.16	1.69	1.29	108.43L
	17708.00	90.00	356.00	10572.53	6901.17	N 6899.07	E 195.27	6901.83	1.62	2.00	160.72L
	17804.00	88.00	355.30	10574.21	6996.76	N 6994.77	E 187.99	6997.30	1.54	2.21	26.57R
	17898.00	90.00	356.30	10575.85	7090.38	N 7088.50	E 181.11	7090.81	1.46	2.38	86.63R
	17995.00	90.10	358.00	10575.76	7187.17	N 7185.37	E 176.29	7187.54	1.41	1.76	32.73R
	18091.00	91.50	358.90	10574.42	7283.08	N 7281.33	E 173.69	7283.40	1.37	1.73	111.8L
	18185.00	91.30	358.40	10572.12	7376.98	N 7375.27	E 171.48	7377.27	1.33	0.57	76.39R
	18281.00	92.00	1.30	10569.36	7472.92	N 7471.22	E 171.22	7473.18	1.31	3.11	90R
	18376.00	92.00	2.30	10566.04	7567.85	N 7566.12	E 174.21	7568.12	1.32	1.05	143.97R
	18472.00	90.90	3.10	10563.61	7663.76	N 7661.98	E 178.73	7664.06	1.34	1.42	135L
	18570.00	90.10	2.30	10562.76	7761.70	N 7759.86	E 183.34	7762.03	1.35	1.15	37.87L
	18666.00	91.00	1.60	10561.84	7857.68	N 7855.80	E 186.61	7858.02	1.36	1.19	8.74L
	18762.00	92.30	1.40	10559.07	7953.63	N 7951.73	E 189.12	7953.97	1.36	1.37	150.64R
	18858.00	90.70	2.30	10556.56	8049.58	N 8047.64	E 192.22	8049.93	1.37	1.91	173.66R
	18953.00	89.80	2.40	10556.15	8144.54	N 8142.56	E 196.12	8144.92	1.38	0.95	90R
	19047.00	89.80	3.20	10556.47	8238.49	N 8236.44	E 200.71	8238.89	1.40	0.85	71.56L
	19143.00	90.40	1.40	10556.31	8334.45	N 8332.36	E 204.56	8334.87	1.41	1.98	LS
	19238.00	90.00	1.40	10555.98	8429.44	N 8427.33	E 206.88	8429.87	1.41	0.42	18.43R
	19332.00	91.80	2.00	10554.50	8523.42	N 8521.27	E 209.67	8523.85	1.41	2.02	133.51R
First SLB Survey	19385.00	91.24	2.59	10553.09	8576.38	N 8574.21	E 211.79	8576.83	1.41	1.53	158.32L
	19470.00	87.97	1.29	10553.68	8661.35	N 8659.15	E 214.67	8661.81	1.42	4.14	21.1R
	19565.00	89.94	2.05	10555.41	8756.32	N 8754.09	E 217.44	8756.79	1.42	2.22	99.93R
	19660.00	89.87	2.45	10555.57	8851.29	N 8849.01	E 221.17	8851.78	1.43	0.43	98.4L
	19755.00	89.69	1.23	10555.93	8946.27	N 8943.96	E 224.22	8946.77	1.44	1.30	80.54L
	19850.00	89.97	359.55	10556.22	9041.27	N 9038.96	E 224.86	9041.75	1.43	1.79	87.47R
	19946.00	90.00	0.23	10556.24	9137.25	N 9134.96	E 224.68	9137.72	1.41	0.71	101.31L
	20043.00	89.87	359.58	10556.35	9234.24	N 9231.96	E 224.52	9234.68	1.39	0.68	90L
	20138.00	89.87	357.26	10556.57	9329.15	N 9326.91	E 221.90	9329.55	1.36	2.44	77.55L
	20234.00	90.04	356.49	10556.64	9424.92	N 9422.77	E 216.67	9425.26	1.32	0.82	48.94L
	20329.00	90.31	356.18	10556.35	9519.63	N 9517.57	E 210.59	9519.90	1.27	0.43	90R
	20425.00	90.31	356.66	10555.83	9615.34	N 9613.38	E 204.60	9615.56	1.22	0.50	122L
	20520.00	90.11	356.34	10555.48	9710.07	N 9708.21	E 198.80	9710.24	1.17	0.40	82.15R
	20616.00	90.38	358.30	10555.07	9805.88	N 9804.10	E 194.31	9806.02	1.14	2.06	116.83R
	20712.00	89.52	0.00	10555.16	9901.84	N 9900.08	E 192.89	9901.96	1.12	1.98	56.92R
	20807.00	90.38	1.32	10555.24	9996.83	N 9995.07	E 193.98	9996.95	1.11	1.66	69.77R
	20904.00	90.52	1.70	10554.48	10093.82	N 10092.03	E 196.54	10093.95	1.12	0.42	98.13R
	21000.00	90.49	1.91	10553.63	10189.81	N 10187.98	E 199.56	10189.94	1.12	0.22	94.08L
	21095.00	90.38	0.37	10552.91	10284.80	N 10282.96	E 201.45	10284.93	1.12	1.63	95.38L
	21191.00	90.25	358.99	10552.38	10380.78	N 10378.95	E 200.91	10380.90	1.11	1.44	71.56R
	21286.00	90.49	359.71	10551.77	10475.74	N 10473.94	E 199.84	10475.85	1.09	0.80	169.7L
	21382.00	90.38	359.69	10551.04	10571.72	N 10569.94	E 199.33	10571.82	1.08	0.12	119.88L
	21477.00	90.11	359.22	10550.63	10666.69	N 10664.94	E 198.43	10666.78	1.07	0.57	3.69L
	21572.00	90.42	359.20	10550.20	10761.65	N 10759.93	E 197.12	10761.73	1.05	0.33	106.26R
	21666.00	90.35	359.44	10549.56	10855.62	N 10853.92	E 196.00	10855.69	1.03	0.27	138.58L
	21761.00	90.18	359.29	10549.12	10950.58	N 10948.91	E 194.95	10950.64	1.02	0.24	5.71L
	21856.00	90.28	359.28	10548.74	11045.55	N 11043.90	E 193.77	11045.60	1.01	0.11	77.07R
	21951.00	90.42	359.89	10548.16	11140.52	N 11138.90	E 193.08	11140.57	0.99	0.66	123.69L
	22046.00	90.14	359.47	10547.70	11235.50	N 11233.89	E 192.55	11235.54	0.98	0.53	29.74L
	22141.00	90.21	359.43	10547.41	11330.48	N 11328.89	E 191.64	11330.51	0.97	0.08	66.37R
	22236.00	90.28	359.59	10547.00	11425.45	N 11423.88	E 190.82	11425.48	0.96	0.18	25.2L
	22331.00	90.45	359.51	10546.40	11520.42	N 11518.88	E 190.08	11520.45	0.95	0.20	173.66R
	22426.00	90.18	359.54	10545.87	11615.40	N 11613.87	E 189.29	11615.42	0.93	0.29	90L
	22521.00	90.18	359.31	10545.58	11710.37	N 11708.87	E 188.34	11710.38	0.92	0.24	16.39R
	22617.00	90.52	359.41	10544.99	11806.34	N 11804.86	E 187.26	11806.35	0.91	0.37	94.9R
	22712.00	90.49	359.76	10544.15	11901.31	N 11899.86	E 186.58	11901.32	0.90	0.37	104.53L
	22764.00	90.42	359.49	10543.74	11953.30	N 11951.85	E 186.24	11953.30	0.89	0.54	HS
Last Survey Proj. to TD @ 22845'MD.	22845.00	90.42	359.49	10543.15	12034.27	N 12032.85	E 185.51	12034.28	0.88	0.00	

Survey Type:

Survey Error Model: ISCSWA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
-------------	------	-----------------	---------------	------------------	-------------------	----------------------------	------------------	-------------------

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (N/S ft)	EW (E/W ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
		1	0.000	22.000	1/98.425	30.000	30.000	NAL_MWD-NON_SLB-Depth Only		Nash Unit 401H / XTO Nash Unit 401H 0ft to Update	
		1	22.000	22.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB-Depth Only		Nash Unit 401H / XTO Nash Unit 401H 0ft to Update	
		1	22.000	16566.000	Act Stns	30.000	30.000	NAL_MWD-NON_SLB		Nash Unit 401H / XTO Nash Unit 401H 0ft to Update	
		1	16566.000	22845.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG		Nash Unit 401H / XTO Nash Unit 401H 0ft to Update	