

REC'D/MIDLAND
NOV 22 2019

RECEIVED
UNITED STATES Field Office
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DEC 05 2019

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to recomplete abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMLC063667
2. Name of Operator XTO PERMIAN OPERATING LLC Contact: CASSIE EVANS E-Mail: cassie_evans@xtoenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-218-3671	7. If Unit or CA/Agreement, Name and/or No. 891000326X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T20S R31E NWSW 1065FSL 435FWL 32.568981 N Lat, 103.847038 W Lon		8. Well Name and No. BIG EDDY UNIT 30E QUI-GON 102H
		9. API Well No. 30-015-46199-00-X1
		10. Field and Pool or Exploratory Area WC WILLIAMS SINK-BONE SPRING
		11. County or Parish, State EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
☒ Notice of Intent	☐ Acidize ☐ Deepen ☐ Production (Start/Resume) ☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing ☐ Hydraulic Fracturing ☐ Reclamation ☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair ☐ New Construction ☐ Recomplete ☒ Other
	☐ Change Plans ☐ Plug and Abandon ☐ Temporarily Abandon ☐ Change to Original APD
	☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

XTO Permian Operating respectfully submits the following surface hole location change for the referenced well above.

1. Surface hole location is changing from (1,065? FSL & 435? FWL, Section 14, T. 20 S. R. 31 E? F-11 Slot) to (1,065? FSL & 465? FWL, Section 14, T. 20 S. R. 31 E? F-12 Slot). No additional surface disturbance is associated with this move.

2. Well name change from Big Eddy Unit 30E QUI-GON 102H to Big Eddy Unit 30 QUI-GON 102H

3. Updated directional is attached.

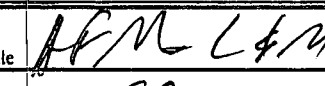
no name change per
ICelby Kardos 11/12/19

Eng. Review STAM 11/12/19 original COAs 11/15/19

Approved. DCS. 10/31/2019, DOI.- BLM-NM-P020-2019-0810-EA. NO NEW SURFACE DISTURBANCE,
Same COAs apply.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #484086 verified by the BLM Well Information System For XTO PERMIAN OPERATING LLC, sent to the Carlsbad Committed to AFMSS for processing by JUANA MEDRANO on 09/20/2019 (19JM0098SE)	
Name (Printed/Typed) CASSIE EVANS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 09/19/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title 	Date 11/13/2019
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office LFO

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

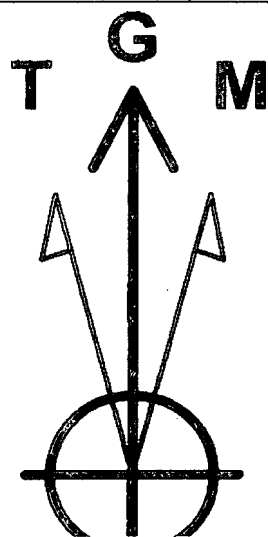
1/27/20 KS

Revisions to Operator-Submitted EC Data for Sundry Notice #484086

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH SR	APDCH SR
Lease:	NMLC063667	NMLC063667
Agreement:		891000326X (NMNM68294X)
Operator:	XTO ENERGY INC 6401 HOLIDAY HILL RD #5 MIDLAND, TX 79707 Ph: 432-218-3671	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	CASSIE EVANS REGULATORY ANALYST E-Mail: cassie_evans@xtoenergy.com Ph: 432-218-3671	CASSIE EVANS REGULATORY ANALYST E-Mail: cassie_evans@xtoenergy.com Ph: 432-218-3671
Tech Contact:	CASSIE EVANS REGULATORY ANALYST E-Mail: cassie_evans@xtoenergy.com Ph: 432-218-3671	CASSIE EVANS REGULATORY ANALYST E-Mail: cassie_evans@xtoenergy.com Ph: 432-218-3671
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	WC WILLIAMS SINK; WB	WC WILLIAMS SINK-BONE SPRING
Well/Facility:	BIG EDDY UNIT 30 QUI GON 102H Sec 14 T20S R31E Mer NMP NWSW 1065FSL 435FWL 32.568980 N Lat, 103.847042 W Lon	BIG EDDY UNIT 30E QUI-GON 102H Sec 14 T20S R31E NWSW 1065FSL 435FWL 32.568981 N Lat, 103.847038 W Lon



XTO Energy Inc.



Azimuths to Grid North
True North: -0.26°
Magnetic North: 6.66°

Magnetic Field
Strength: 47935.3nT
Dip Angle: 60.26°
Date: 9/16/2019

XTO Energy Inc.

Eddy County, NM (NAD27) Big Eddy Unit 30E (Grid)

API#

Big Eddy Unit 30E Qui-Gon 102H

SHL: (1065' FSL - 465' FWL)

Wellbore #1

Plan: Plan 1

Please review plan for SCC Application or Non-Mag Spacing.

Highlighted plan sections are within the Short Collar Correction (SCC) Instability Zone.

Sperry Drilling Services

Combo Report

18 October, 2019

Well Coordinates: 32.56886071
-103.84644340

NAD 1927 (NADCON CONUS)
New Mexico East 3001
571,006.50 N
649,994.80 E

Ground Level: 3,452.00 usft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Centered on Well Big Eddy Unit 30E Qui-Gon 102H

RKB (Precision 595) 25' + GL(3452') @ 3477.00usft

N

Grid

Midcon (2 decimal)

Version: 5000.15 Build: 91

Report Version: Midcon Combo v1.14

HALLIBURTON

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
686.00	0.00	0.00	686.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	Rustler
700.00	0.00	0.00	700.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
820.00	0.00	0.00	820.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	18 5/8"
900.00	0.00	0.00	900.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,040.00	0.00	0.00	1,040.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	Salado/Top of Salt
1,100.00	0.00	0.00	1,100.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	Base of Salt
2,400.00	0.00	0.00	2,400.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,475.00	0.00	0.00	2,475.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	13 3/8"
2,500.00	0.00	0.00	2,500.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,515.00	0.00	0.00	2,515.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	Capitan Reef
2,600.00	0.00	0.00	2,600.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
3,100.00	0.00	0.00	3,100.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00 N	0.00 E	571,006.50	649,994.80	0.00	0.00	0.00	Build
3,600.00	1.00	160.00	3,599.99	0.82 S	0.30 E	571,005.68	649,995.10	1.00	0.22	160.00	
3,700.00	2.00	160.00	3,699.96	3.28 S	1.19 E	571,003.22	649,995.99	1.00	0.87	0.00	
3,800.00	3.00	160.00	3,799.86	7.38 S	2.69 E	570,999.12	649,997.49	1.00	1.95	0.00	
3,900.00	4.00	160.00	3,899.68	13.12 S	4.77 E	570,993.38	649,999.57	1.00	3.46	0.00	
4,000.00	5.00	160.00	3,999.37	20.49 S	7.46 E	570,986.01	650,002.26	1.00	5.41	0.00	Build & Turn
4,017.70	4.76	158.66	4,017.00	21.90 S	7.99 E	570,984.60	650,002.79	1.50	5.80	-155.24	Delaware Sand
4,100.00	3.69	150.19	4,099.08	27.38 S	10.55 E	570,979.12	650,005.35	1.50	7.80	-153.90	
4,110.94	3.56	148.69	4,110.00	27.97 S	10.90 E	570,978.53	650,005.70	1.50	8.10	-145.46	9 5/8"
4,200.00	2.60	131.09	4,198.93	31.66 S	13.86 E	570,974.84	650,008.66	1.50	10.68	-143.96	
4,300.00	2.09	95.84	4,298.85	33.34 S	17.38 E	570,973.16	650,012.18	1.50	14.02	-126.38	
4,400.00	2.55	59.80	4,398.77	32.40 S	21.12 E	570,974.10	650,015.92	1.50	17.83	-91.16	
4,500.00	3.62	39.92	4,498.63	28.86 S	25.07 E	570,977.64	650,019.87	1.50	22.11	-55.15	
4,600.00	4.92	29.77	4,598.35	22.71 S	29.23 E	570,983.79	650,024.03	1.50	26.85	-35.30	
4,700.00	6.31	23.96	4,697.87	13.96 S	33.59 E	570,992.54	650,028.39	1.50	32.06	-25.17	
4,800.00	7.74	20.26	4,797.11	2.62 S	38.16 E	571,003.88	650,032.96	1.50	37.72	-19.39	
4,804.93	7.82	20.12	4,802.00	1.99 S	38.39 E	571,004.51	650,033.19	1.50	38.01	-15.72	Manzanita Marker
4,900.00	9.20	17.72	4,896.02	11.31 N	42.93 E	571,017.81	650,037.73	1.50	43.83	-15.57	
5,000.00	10.66	15.87	4,994.52	27.83 N	47.89 E	571,034.33	650,042.69	1.50	50.39	-13.20	
5,100.00	12.14	14.46	5,092.54	46.91 N	53.04 E	571,053.41	650,047.84	1.50	57.40	-11.38	
5,200.00	13.62	13.35	5,190.03	68.54 N	58.39 E	571,075.04	650,053.19	1.50	64.85	-10.00	
5,300.00	15.10	12.46	5,286.90	92.71 N	63.92 E	571,099.21	650,058.72	1.50	72.73	-8.92	
5,360.56	16.00	12.00	5,345.24	108.58 N	67.36 E	571,115.08	650,062.16	1.50	77.71	-8.06	Hold 16"
5,400.00	16.00	12.00	5,383.16	119.21 N	69.62 E	571,125.71	650,064.42	0.00	81.00	0.00	
5,500.00	16.00	12.00	5,479.28	146.17 N	75.35 E	571,152.67	650,070.15	0.00	89.36	0.00	
5,600.00	16.00	12.00	5,575.41	173.13 N	81.08 E	571,179.63	650,075.88	0.00	97.71	0.00	
5,700.00	16.00	12.00	5,671.53	200.10 N	86.81 E	571,206.60	650,081.61	0.00	106.07	0.00	
5,800.00	16.00	12.00	5,767.66	227.06 N	92.54 E	571,233.56	650,087.34	0.00	114.42	0.00	
5,818.04	16.00	12.00	5,785.00	231.92 N	93.57 E	571,238.42	650,088.37	0.00	115.93	0.00	Brushy Canyon Ss.
5,900.00	16.00	12.00	5,863.79	254.02 N	98.27 E	571,260.52	650,093.07	0.00	122.78	0.00	
6,000.00	16.00	12.00	5,959.91	280.98 N	104.00 E	571,287.48	650,098.80	0.00	131.13	0.00	
6,100.00	16.00	12.00	6,056.04	307.94 N	109.73 E	571,314.44	650,104.53	0.00	139.49	0.00	
6,200.00	16.00	12.00	6,152.17	334.90 N	115.46 E	571,341.40	650,110.26	0.00	147.84	0.00	

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
6,300.00	16.00	12.00	6,248.29	361.86 N	121.19 E	571,368.36	650,115.99	0.00	156.20	0.00	
6,400.00	16.00	12.00	6,344.42	388.83 N	126.92 E	571,395.33	650,121.72	0.00	164.55	0.00	
6,500.00	16.00	12.00	6,440.54	415.79 N	132.66 E	571,422.29	650,127.46	0.00	172.91	0.00	
6,600.00	16.00	12.00	6,536.67	442.75 N	138.39 E	571,449.25	650,133.19	0.00	181.26	0.00	
6,700.00	16.00	12.00	6,632.80	469.71 N	144.12 E	571,476.21	650,138.92	0.00	189.62	0.00	
6,800.00	16.00	12.00	6,728.92	496.67 N	149.85 E	571,503.17	650,144.65	0.00	197.97	0.00	
6,900.00	16.00	12.00	6,825.05	523.63 N	155.58 E	571,530.13	650,150.38	0.00	206.33	0.00	
7,000.00	16.00	12.00	6,921.17	550.59 N	161.31 E	571,557.09	650,156.11	0.00	214.68	0.00	
7,100.00	16.00	12.00	7,017.30	577.56 N	167.04 E	571,584.06	650,161.84	0.00	223.04	0.00	
7,200.00	16.00	12.00	7,113.43	604.52 N	172.77 E	571,611.02	650,167.57	0.00	231.39	0.00	
7,226.60	16.00	12.00	7,139.00	611.69 N	174.30 E	571,618.19	650,169.10	0.00	233.61	0.00	Lower Brushy Canyon Ss
7,300.00	16.00	12.00	7,209.55	631.48 N	178.50 E	571,637.98	650,173.30	0.00	239.75	0.00	
7,400.00	16.00	12.00	7,305.68	658.44 N	184.23 E	571,664.94	650,179.03	0.00	248.10	0.00	
7,467.95	16.00	12.00	7,371.00	676.76 N	188.13 E	571,683.26	650,182.93	0.00	253.78	0.00	Bone Spring Lm.
7,500.00	16.00	12.00	7,401.81	685.40 N	189.96 E	571,691.90	650,184.76	0.00	256.46	0.00	
7,600.00	16.00	12.00	7,497.93	712.36 N	195.69 E	571,718.86	650,190.49	0.00	264.81	0.00	
7,636.48	16.00	12.00	7,533.00	722.20 N	197.78 E	571,728.70	650,192.58	0.00	267.86	0.00	Avalon Ss
7,654.17	16.00	12.00	7,550.00	726.97 N	198.80 E	571,733.47	650,193.60	0.00	269.34	0.00	Upper Avalon Carb.
7,700.00	16.00	12.00	7,594.06	739.32 N	201.42 E	571,745.82	650,196.22	0.00	273.17	0.00	
7,706.18	16.00	12.00	7,600.00	740.99 N	201.78 E	571,747.49	650,196.58	0.00	273.68	0.00	Upper Avalon Sh.
7,800.00	16.00	12.00	7,690.18	766.29 N	207.16 E	571,772.79	650,201.96	0.00	281.52	0.00	
7,820.56	16.00	12.00	7,709.95	771.83 N	208.33 E	571,778.33	650,203.13	0.00	283.24	0.00	Drop
7,900.00	14.81	12.00	7,786.53	792.47 N	212.72 E	571,798.97	650,207.52	1.50	289.64	-180.00	
7,984.03	13.55	12.00	7,868.00	812.60 N	217.00 E	571,819.10	650,211.80	1.50	295.87	-180.00	Lw. Avalon Carb.
8,000.00	13.31	12.00	7,883.53	816.23 N	217.77 E	571,822.73	650,212.57	1.50	297.00	-180.00	
8,100.00	11.81	12.00	7,981.14	837.50 N	222.29 E	571,844.00	650,217.09	1.50	303.59	-180.00	
8,200.00	10.31	12.00	8,079.28	856.26 N	226.28 E	571,862.76	650,221.08	1.50	309.40	-180.00	
8,200.73	10.30	12.00	8,080.00	856.38 N	226.31 E	571,862.88	650,221.11	1.50	309.44	-180.00	Lw. Avalon Sh.
8,300.00	8.81	12.00	8,177.89	872.50 N	229.73 E	571,879.00	650,224.53	1.50	314.44	-180.00	
8,400.00	7.31	12.00	8,276.90	886.21 N	232.65 E	571,892.71	650,227.45	1.50	318.68	-180.00	
8,413.21	7.11	12.00	8,290.00	887.83 N	232.99 E	571,894.33	650,227.79	1.50	319.19	-180.00	Bone Spring Carb.
8,500.00	5.81	12.00	8,376.24	897.38 N	235.02 E	571,903.88	650,229.82	1.50	322.15	-180.00	
8,600.00	4.31	12.00	8,475.85	906.01 N	236.85 E	571,912.51	650,231.65	1.50	324.82	-180.00	
8,700.00	2.81	12.00	8,575.65	912.08 N	238.14 E	571,918.58	650,232.94	1.50	326.70	-180.00	
8,701.35	2.79	12.00	8,577.00	912.14 N	238.16 E	571,918.64	650,232.96	1.50	326.72	-180.00	First Bone Spring Ss
8,800.00	1.31	12.00	8,675.59	915.59 N	238.89 E	571,922.09	650,233.69	1.50	327.79	-180.00	
8,887.23	0.00	0.00	8,762.81	916.56 N	239.10 E	571,923.06	650,233.90	1.50	328.09	-180.00	Vertical

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
8,900.00	0.00	0.00	8,775.58	916.56 N	239.10 E	571,923.06	650,233.90	0.00	328.09	0.00	
8,935.42	0.00	0.00	8,811.00	916.56 N	239.10 E	571,923.06	650,233.90	0.00	328.09	0.00	Second Bone Spring Carb.
9,000.00	0.00	0.00	8,875.58	916.56 N	239.10 E	571,923.06	650,233.90	0.00	328.09	0.00	
9,100.00	0.00	0.00	8,975.58	916.56 N	239.10 E	571,923.06	650,233.90	0.00	328.09	0.00	
9,175.46	0.00	0.00	9,051.04	916.56 N	239.10 E	571,923.06	650,233.90	0.00	328.09	0.00	KOP/Built 10°/100'
9,200.00	2.45	89.56	9,075.57	916.57 N	239.62 E	571,923.07	650,234.42	10.00	328.61	89.56	
9,250.00	7.45	89.56	9,125.37	916.60 N	243.94 E	571,923.10	650,238.74	10.00	332.91	0.00	
9,288.15	11.27	89.56	9,163.00	916.65 N	250.14 E	571,923.15	650,244.94	10.00	339.09	0.00	Second Bone Spring Ss.
9,300.00	12.45	89.56	9,174.60	916.67 N	252.58 E	571,923.17	650,247.38	10.00	341.52	0.00	
9,350.00	17.45	89.56	9,222.89	916.77 N	265.48 E	571,923.27	650,260.28	10.00	354.36	0.00	
9,400.00	22.45	89.56	9,269.87	916.90 N	282.53 E	571,923.40	650,277.33	10.00	371.35	0.00	
9,450.00	27.45	89.56	9,315.19	917.07 N	303.62 E	571,923.57	650,298.42	10.00	392.35	0.00	
9,500.00	32.45	89.56	9,358.50	917.26 N	328.58 E	571,923.76	650,323.38	10.00	417.20	0.00	
9,550.00	37.45	89.56	9,399.47	917.48 N	357.21 E	571,923.98	650,352.01	10.00	445.72	0.00	
9,600.00	42.45	89.56	9,437.78	917.73 N	389.31 E	571,924.23	650,384.11	10.00	477.69	0.00	
9,650.00	47.45	89.56	9,473.16	918.01 N	424.63 E	571,924.51	650,419.43	10.00	512.86	0.00	
9,700.00	52.45	89.56	9,505.32	918.30 N	462.89 E	571,924.80	650,457.69	10.00	550.97	0.00	
9,750.00	57.45	89.56	9,534.02	918.62 N	503.81 E	571,925.12	650,498.61	10.00	591.72	0.00	
9,800.00	62.45	89.56	9,559.05	918.96 N	547.08 E	571,925.46	650,541.88	10.00	634.81	0.00	
9,850.00	67.45	89.56	9,580.21	919.31 N	592.36 E	571,925.81	650,587.16	10.00	679.91	0.00	
9,874.17	69.87	89.55	9,589.00	919.48 N	614.87 E	571,925.98	650,609.67	10.00	702.32	0.00	Third Bone Spring Shale
9,900.00	72.45	89.56	9,597.34	919.67 N	639.31 E	571,926.17	650,634.11	10.00	726.67	0.00	
9,950.00	77.45	89.56	9,610.32	920.05 N	687.58 E	571,926.55	650,682.38	10.00	774.74	0.00	
10,000.00	82.45	89.56	9,619.04	920.43 N	736.80 E	571,926.93	650,731.60	10.00	823.76	0.00	
10,050.00	87.45	89.56	9,623.43	920.82 N	786.59 E	571,927.32	650,781.39	10.00	873.34	0.00	
10,069.26	89.38	89.56	9,623.96	920.97 N	805.84 E	571,927.47	650,800.64	10.00	892.52	0.00	Landing 89.38°
10,072.57	89.38	89.56	9,624.00	920.99 N	809.14 E	571,927.49	650,803.94	0.00	895.81	0.00	Landing Point
10,100.00	89.38	89.56	9,624.30	921.20 N	836.57 E	571,927.70	650,831.37	0.00	923.13	0.00	
10,200.00	89.38	89.56	9,625.38	921.98 N	936.57 E	571,928.48	650,931.37	0.00	1,022.71	0.00	
10,300.00	89.38	89.56	9,626.46	922.76 N	1,036.56 E	571,929.26	651,031.36	0.00	1,122.29	0.00	
10,400.00	89.38	89.56	9,627.54	923.53 N	1,136.55 E	571,930.03	651,131.35	0.00	1,221.87	0.00	
10,500.00	89.38	89.56	9,628.63	924.31 N	1,236.54 E	571,930.81	651,231.34	0.00	1,321.46	0.00	
10,600.00	89.38	89.56	9,629.71	925.09 N	1,336.53 E	571,931.59	651,331.33	0.00	1,421.04	0.00	
10,700.00	89.38	89.56	9,630.79	925.86 N	1,436.52 E	571,932.36	651,431.32	0.00	1,520.62	0.00	
10,800.00	89.38	89.56	9,631.87	926.64 N	1,536.51 E	571,933.14	651,531.31	0.00	1,620.21	0.00	
10,900.00	89.38	89.56	9,632.95	927.42 N	1,636.50 E	571,933.92	651,631.30	0.00	1,719.79	0.00	

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
Northings	Eastings		Northings	Eastings							
(usft)	(usft)		(usft)	(usft)							
11,000.00	89.38	89.56	9,634.04	928.19 N	1,736.50 E	571,934.69	651,731.30	0.00	1,819.37	0.00	
11,100.00	89.38	89.56	9,635.12	928.97 N	1,836.49 E	571,935.47	651,831.29	0.00	1,918.95	0.00	
11,200.00	89.38	89.56	9,636.20	929.75 N	1,936.48 E	571,936.25	651,931.28	0.00	2,018.54	0.00	
11,300.00	89.38	89.56	9,637.28	930.52 N	2,036.47 E	571,937.02	652,031.27	0.00	2,118.12	0.00	
11,400.00	89.38	89.56	9,638.36	931.30 N	2,136.46 E	571,937.80	652,131.26	0.00	2,217.70	0.00	
11,500.00	89.38	89.56	9,639.45	932.08 N	2,236.45 E	571,938.58	652,231.25	0.00	2,317.28	0.00	
11,600.00	89.38	89.56	9,640.53	932.85 N	2,336.44 E	571,939.35	652,331.24	0.00	2,416.87	0.00	
11,700.00	89.38	89.56	9,641.61	933.63 N	2,436.43 E	571,940.13	652,431.23	0.00	2,516.45	0.00	
11,800.00	89.38	89.56	9,642.69	934.41 N	2,536.42 E	571,940.91	652,531.22	0.00	2,616.03	0.00	
11,900.00	89.38	89.56	9,643.77	935.18 N	2,636.42 E	571,941.68	652,631.22	0.00	2,715.61	0.00	
12,000.00	89.38	89.56	9,644.86	935.96 N	2,736.41 E	571,942.46	652,731.21	0.00	2,815.20	0.00	
12,100.00	89.38	89.56	9,645.94	936.74 N	2,836.40 E	571,943.24	652,831.20	0.00	2,914.78	0.00	
12,200.00	89.38	89.56	9,647.02	937.51 N	2,936.39 E	571,944.01	652,931.19	0.00	3,014.36	0.00	
12,300.00	89.38	89.56	9,648.10	938.29 N	3,036.38 E	571,944.79	653,031.18	0.00	3,113.95	0.00	
12,400.00	89.38	89.56	9,649.18	939.07 N	3,136.37 E	571,945.57	653,131.17	0.00	3,213.53	0.00	
12,500.00	89.38	89.56	9,650.27	939.84 N	3,236.36 E	571,946.34	653,231.16	0.00	3,313.11	0.00	
12,600.00	89.38	89.56	9,651.35	940.62 N	3,336.35 E	571,947.12	653,331.15	0.00	3,412.69	0.00	
12,700.00	89.38	89.56	9,652.43	941.40 N	3,436.34 E	571,947.90	653,431.14	0.00	3,512.28	0.00	
12,800.00	89.38	89.56	9,653.51	942.17 N	3,536.34 E	571,948.67	653,531.14	0.00	3,611.86	0.00	
12,900.00	89.38	89.56	9,654.59	942.95 N	3,636.33 E	571,949.45	653,631.13	0.00	3,711.44	0.00	
13,000.00	89.38	89.56	9,655.68	943.73 N	3,736.32 E	571,950.23	653,731.12	0.00	3,811.02	0.00	
13,100.00	89.38	89.56	9,656.76	944.50 N	3,836.31 E	571,951.00	653,831.11	0.00	3,910.61	0.00	
13,200.00	89.38	89.56	9,657.84	945.28 N	3,936.30 E	571,951.78	653,931.10	0.00	4,010.19	0.00	
13,300.00	89.38	89.56	9,658.92	946.06 N	4,036.29 E	571,952.56	654,031.09	0.00	4,109.77	0.00	
13,307.17	89.38	89.56	9,659.00	946.11 N	4,043.46 E	571,952.61	654,038.26	0.00	4,116.91	0.00	Third Bone Spring Lime
13,400.00	89.38	89.56	9,660.00	946.83 N	4,136.28 E	571,953.33	654,131.08	0.00	4,209.35	0.00	
13,500.00	89.38	89.56	9,661.09	947.61 N	4,236.27 E	571,954.11	654,231.07	0.00	4,308.94	0.00	
13,600.00	89.38	89.56	9,662.17	948.39 N	4,336.26 E	571,954.89	654,331.06	0.00	4,408.52	0.00	
13,700.00	89.38	89.56	9,663.25	949.16 N	4,436.26 E	571,955.66	654,431.06	0.00	4,508.10	0.00	
13,800.00	89.38	89.56	9,664.33	949.94 N	4,536.25 E	571,956.44	654,531.05	0.00	4,607.69	0.00	
13,900.00	89.38	89.56	9,665.41	950.72 N	4,636.24 E	571,957.22	654,631.04	0.00	4,707.27	0.00	
14,000.00	89.38	89.56	9,666.50	951.49 N	4,736.23 E	571,957.99	654,731.03	0.00	4,806.85	0.00	
14,100.00	89.38	89.56	9,667.58	952.27 N	4,836.22 E	571,958.77	654,831.02	0.00	4,906.43	0.00	
14,200.00	89.38	89.56	9,668.66	953.05 N	4,936.21 E	571,959.55	654,931.01	0.00	5,006.02	0.00	
14,300.00	89.38	89.56	9,669.74	953.82 N	5,036.20 E	571,960.32	655,031.00	0.00	5,105.60	0.00	
14,400.00	89.38	89.56	9,670.82	954.60 N	5,136.19 E	571,961.10	655,130.99	0.00	5,205.18	0.00	
14,500.00	89.38	89.56	9,671.91	955.38 N	5,236.18 E	571,961.88	655,230.98	0.00	5,304.76	0.00	

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
14600.00	89.38	89.56	9,672.99	956.15 N	5,336.18 E	571,962.65	655,330.98	0.00	5,404.35	0.00	
14700.00	89.38	89.56	9,674.07	956.93 N	5,436.17 E	571,963.43	655,430.97	0.00	5,503.93	0.00	
14800.00	89.38	89.56	9,675.15	957.71 N	5,536.16 E	571,964.21	655,530.96	0.00	5,603.51	0.00	
14900.00	89.38	89.56	9,676.24	958.48 N	5,636.15 E	571,964.98	655,630.95	0.00	5,703.09	0.00	
15000.00	89.38	89.56	9,677.32	959.26 N	5,736.14 E	571,965.76	655,730.94	0.00	5,802.68	0.00	
15100.00	89.38	89.56	9,678.40	960.04 N	5,836.13 E	571,966.54	655,830.93	0.00	5,902.26	0.00	
15200.00	89.38	89.56	9,679.48	960.81 N	5,936.12 E	571,967.31	655,930.92	0.00	6,001.84	0.00	
15300.00	89.38	89.56	9,680.56	961.59 N	6,036.11 E	571,968.09	656,030.91	0.00	6,101.43	0.00	
15400.00	89.38	89.56	9,681.65	962.37 N	6,136.10 E	571,968.87	656,130.90	0.00	6,201.01	0.00	
15500.00	89.38	89.56	9,682.73	963.14 N	6,236.10 E	571,969.64	656,230.90	0.00	6,300.59	0.00	
15600.00	89.38	89.56	9,683.81	963.92 N	6,336.09 E	571,970.42	656,330.89	0.00	6,400.17	0.00	
15700.00	89.38	89.56	9,684.89	964.70 N	6,436.08 E	571,971.20	656,430.88	0.00	6,499.76	0.00	
15800.00	89.38	89.56	9,685.97	965.47 N	6,536.07 E	571,971.97	656,530.87	0.00	6,599.34	0.00	
15900.00	89.38	89.56	9,687.06	966.25 N	6,636.06 E	571,972.75	656,630.86	0.00	6,698.92	0.00	
16000.00	89.38	89.56	9,688.14	967.03 N	6,736.05 E	571,973.53	656,730.85	0.00	6,798.50	0.00	
16100.00	89.38	89.56	9,689.22	967.80 N	6,836.04 E	571,974.30	656,830.84	0.00	6,898.09	0.00	
16200.00	89.38	89.56	9,690.30	968.58 N	6,936.03 E	571,975.08	656,930.83	0.00	6,997.67	0.00	
16300.00	89.38	89.56	9,691.38	969.36 N	7,036.02 E	571,975.86	657,030.82	0.00	7,097.25	0.00	
16400.00	89.38	89.56	9,692.47	970.13 N	7,136.02 E	571,976.63	657,130.82	0.00	7,196.83	0.00	
16500.00	89.38	89.56	9,693.55	970.91 N	7,236.01 E	571,977.41	657,230.81	0.00	7,296.42	0.00	
16600.00	89.38	89.56	9,694.63	971.69 N	7,336.00 E	571,978.19	657,330.80	0.00	7,396.00	0.00	
16700.00	89.38	89.56	9,695.71	972.46 N	7,435.99 E	571,978.96	657,430.79	0.00	7,495.58	0.00	
16800.00	89.38	89.56	9,696.79	973.24 N	7,535.98 E	571,979.74	657,530.78	0.00	7,595.17	0.00	
16900.00	89.38	89.56	9,697.88	974.01 N	7,635.97 E	571,980.51	657,630.77	0.00	7,694.75	0.00	
17000.00	89.38	89.56	9,698.96	974.79 N	7,735.96 E	571,981.29	657,730.76	0.00	7,794.33	0.00	
17100.00	89.38	89.56	9,700.04	975.57 N	7,835.95 E	571,982.07	657,830.75	0.00	7,893.91	0.00	
17200.00	89.38	89.56	9,701.12	976.34 N	7,935.95 E	571,982.84	657,930.75	0.00	7,993.50	0.00	
17300.00	89.38	89.56	9,702.20	977.12 N	8,035.94 E	571,983.62	658,030.74	0.00	8,093.08	0.00	
17400.00	89.38	89.56	9,703.29	977.90 N	8,135.93 E	571,984.40	658,130.73	0.00	8,192.66	0.00	
17500.00	89.38	89.56	9,704.37	978.67 N	8,235.92 E	571,985.17	658,230.72	0.00	8,292.24	0.00	
17600.00	89.38	89.56	9,705.45	979.45 N	8,335.91 E	571,985.95	658,330.71	0.00	8,391.83	0.00	
17700.00	89.38	89.56	9,706.53	980.23 N	8,435.90 E	571,986.73	658,430.70	0.00	8,491.41	0.00	
17800.00	89.38	89.56	9,707.61	981.00 N	8,535.89 E	571,987.50	658,530.69	0.00	8,590.99	0.00	
17900.00	89.38	89.56	9,708.70	981.78 N	8,635.88 E	571,988.28	658,630.68	0.00	8,690.57	0.00	
18000.00	89.38	89.56	9,709.78	982.56 N	8,735.87 E	571,989.06	658,730.67	0.00	8,790.16	0.00	
18100.00	89.38	89.56	9,710.86	983.33 N	8,835.87 E	571,989.83	658,830.67	0.00	8,889.74	0.00	
18200.00	89.38	89.56	9,711.94	984.11 N	8,935.86 E	571,990.61	658,930.66	0.00	8,989.32	0.00	

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1**

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
18,300.00	89.38	89.56	9,713.02	984.89 N	9,035.85 E	571,991.39	659,030.65	0.00	9,088.91	0.00	
18,400.00	89.38	89.56	9,714.11	985.66 N	9,135.84 E	571,992.16	659,130.64	0.00	9,188.49	0.00	
18,500.00	89.38	89.56	9,715.19	986.44 N	9,235.83 E	571,992.94	659,230.63	0.00	9,288.07	0.00	
18,600.00	89.38	89.56	9,716.27	987.22 N	9,335.82 E	571,993.72	659,330.62	0.00	9,387.65	0.00	
18,700.00	89.38	89.56	9,717.35	987.99 N	9,435.81 E	571,994.49	659,430.61	0.00	9,487.24	0.00	
18,800.00	89.38	89.56	9,718.44	988.77 N	9,535.80 E	571,995.27	659,530.60	0.00	9,586.82	0.00	
18,900.00	89.38	89.56	9,719.52	989.55 N	9,635.79 E	571,996.05	659,630.59	0.00	9,686.40	0.00	
19,000.00	89.38	89.56	9,720.60	990.32 N	9,735.79 E	571,996.82	659,730.59	0.00	9,785.98	0.00	
19,100.00	89.38	89.56	9,721.68	991.10 N	9,835.78 E	571,997.60	659,830.58	0.00	9,885.57	0.00	
19,200.00	89.38	89.56	9,722.76	991.88 N	9,935.77 E	571,998.38	659,930.57	0.00	9,985.15	0.00	
19,300.00	89.38	89.56	9,723.85	992.65 N	10,035.76 E	571,999.15	660,030.56	0.00	10,084.73	0.00	
19,311.04	89.38	89.56	9,723.96	992.74 N	10,046.80 E	571,999.24	660,041.60	0.00	10,095.73	0.00	TD at 19311.04 - 7'

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,500.00	3,500.00	0.00	0.00	Build
4,000.00	3,999.37	-20.49	7.46	Build & Turn
5,360.56	5,345.24	108.58	67.36	Hold 16°
7,820.56	7,709.95	771.83	208.33	Drop
8,887.23	8,762.81	916.56	239.10	Vertical
9,175.46	9,051.04	916.56	239.10	KOP/Buil 10°/100'
10,069.26	9,623.96	920.97	805.84	Landing 89.38°
19,311.04	9,724.00	993.00	10,046.80	TD at 19311.04

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/-S (usft)	+E/-W (usft)	
User	No Target (Freehand)	84.36	Slot	0.00	0.00	0.00

Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	9,175.46	Plan 1	3_MWD
9,175.46	19,311.04	Plan 1	3_MWD+IFR1

Casing Details

Measured Depth (usft)	Vertical Depth (usft)		Name	Casing Diameter (")	Hole Diameter (")
820.00	820.00	18 5/8"		18-5/8	24
2,475.00	2,475.00	13 3/8"		13-3/8	17-1/2
4,110.94	4,110.00	9 5/8"		9-5/8	12-1/4
19,311.04	9,723.96	7"		7	8-3/4

HALLIBURTON**Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1****Formation Details**

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
686.00	686.00	-2,791.00	Rustler			
1,040.00	1,040.00	-2,437.00	Salado/Top of Salt			
2,300.00	2,300.00	-1,177.00	Base of Salt			
2,515.00	2,515.00	-962.00	Capitan Reef			
4,017.70	4,017.00	540.00	Delaware Sand			
4,804.93	4,802.00	1,325.00	Manzanita Marker			
5,818.04	5,785.00	2,308.00	Brushy Canyon Ss.			
7,226.60	7,139.00	3,662.00	Lower Brushy Canyon Ss.			
7,467.95	7,371.00	3,894.00	Bone Spring Lm.			
7,636.48	7,533.00	4,056.00	Avalon Ss.			
7,654.17	7,550.00	4,073.00	Upper Avalon Carb.			
7,706.18	7,600.00	4,123.00	Upper Avalon Sh.			
7,984.03	7,868.00	4,391.00	Lw. Avalon Carb.			
8,200.73	8,080.00	4,603.00	Lw. Avalon Sh.			
8,413.21	8,290.00	4,813.00	Bone Spring Carb.			
8,701.35	8,577.00	5,100.00	First Bone Spring Ss.			
8,935.42	8,811.00	5,334.00	Second Bone Spring Carb.			
9,288.15	9,163.00	5,686.00	Second Bone Spring Ss.			
9,874.17	9,589.00	6,112.00	Third Bone Spring Shale			
10,072.57	9,624.00	6,147.00	Landing Point			
13,307.17	9,659.00	6,182.00	Third Bone Spring Lime			
19,311.04	9,724.00	6,247.00	TD		0.00	

Plan Report for Big Eddy Unit 30E Qui-Gon 102H - Plan 1

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									

Qui-Gon 102H LTP (1980' FSL - 100' FEL) ()

0.00	0.00	0.00	992.70	9,996.80	571,999.20	659,991.60	32.57145948	-103.81397872
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- plan misses target center by 9722.85usft at 19155.83usft MD (9722.29 TVD, 991.53 N, 9891.60 E)

- Point

Qui-Gon 102H LTP (1980' FSL - 660' FWL) ()

0.00	0.00	9,624.00	917.00	190.20	571,923.50	650,185.00	32.57137891	-103.814581238
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- plan misses target center by 272.62usft at 9600.00usft MD (9437.78 TVD, 917.73 N, 389.31 E)

- Point

Qui-Gon 102H BHL (1980' FSL - 50' FEL) ()

0.00	0.00	9,731.00	993.00	10,046.80	571,999.50	660,041.60	32.57145963	-103.81381641
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- plan misses target center by 7.04usft at 19311.04usft MD (9723.96 TVD, 992.74 N, 10046.80 E)

- Point

Directional Difficulty Index

Average Dogleg over Survey:	0.68 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 10,069.26 usft
Net Tortousity applicable to Plans:	0.68 °/100usft	Directional Difficulty Index:	6.542

Audit Info

North Reference Sheet for Big Eddy Unit 30E (Grid) - Big Eddy Unit 30E Qui-Gon 102H - Wellbore #1

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB (Precision 595) 25' + GL(3452') @ 3477.00usft. Northing and Easting are relative to Big Eddy Unit 30E Qui-Gon 102H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.3333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99993486

Grid Coordinates of Well: 571,006.50 usft N, 649,994.80 usft E

Geographical Coordinates of Well: 32.56886071, -103.84644340

Grid Convergence at Surface is: 0.26°

Based upon Minimum Curvature type calculations, at a Measured Depth of 19,311.04usft

the Bottom Hole Displacement is 10,095.73usft in the Direction of 84.36° (Grid).

Magnetic Convergence at surface is: -6.66° (16 September 2019, . BGGM2018)

