Form 3160-5 (June 2015)

UNITED STATES **EMNRD-OCD ARTESIA** DEPARTMENT OF THE INTERIOR REC'D: 6/19/2020 BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. NMLC065431

	NOTICES AND INEL OIL		NINEGOOSTOT			
Do not use the abandoned we	is form for proposals to d II. Use form 3160-3 (APD)	rill or to re-enter an for such proposals.	6. If Indian, Allottee	or Tribe Name		
SUBMIT IN	TRIPLICATE - Other instru	uctions on page 2	7. If Unit or CA/Agr NMNM68294X	reement, Name and/or No.		
1. Type of Well			8. Well Name and No	o. T 5E HAN SOLO 101H		
Oil Well Gas Well Ot				SE HAN SOLO TOTH		
2. Name of Operator XTO PERMIAN OPERATING	Contact: K LLC E-Mail: kelly_kardos	ELLY KARDOS @xtoenergy.com	9. API Well No. 30-015-46832			
Ba. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707		3b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Pool of WILDCAT BO			
Location of Well (Footage, Sec., 7	T., R., M., or Survey Description)		11. County or Parish	, State		
Sec 27 T20S R31E Mer NMF	SWNE 1920FNL 1873FEL	= 1670FNL 1855FEL	EDDY COUNT	TY, NM		
12. CHECK THE A	PPROPRIATE BOX(ES) T	O INDICATE NATURE O	 F NOTICE, REPORT, OR OT	HER DATA		
TYPE OF SUBMISSION	The state of the s	TYPE OF	ACTION			
- Notice of Intent	Acidize	Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off		
Notice of Intent ■ Notice of Intent	Alter Casing	☐ Hydraulic Fracturing	Reclamation	☐ Well Integrity		
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	Recomplete	Other		
☐ Final Abandonment Notice	Change Plans	Plug and Abandon	☐ Temporarily Abandon	Change to Original A PD		
_	Convert to Injection	Plug Back	☐ Water Disposal			
testing has been completed. Final Al determined that the site is ready for a XTO Permian Operating, LLC	inal inspection.			a and the operator has		
Change the SHL from 1920FI	NL & 1873FEL to 1670FNL	& 1885FEL *NO SURFACE	E DISTURBANCE*			
Change the BHL from 660FS						
Change the casing/cement de	esign per the attached drillin	ng program.				
XTO requests the following va	ariances:					
Approval to utilize a spudder of Operations.	rig to pre-set surface casing	per the attached Description	on of 3-20			
All COAS MORN. Add	thonal COAS rega	oding Shell 485				
4. Thereby certify that the foregoing is	true and correct. Electronic Submission #51 For XTO PERMIAN	5002 verified by the BLM Wel	I Information System			
Name (Printed/Typed) KELLY KA	- The state of the	Title REGUL	ATORY COORDINATOR			
Name (17th car Typea) NEELT N	NI DOG	The NEGOL	ATORT COORDINATOR			
Signature (Electronic S	Submission)	Date 05/12/20	020			
	THIS SPACE FOR	FEDERAL OR STATE (OFFICE USE			
Approved By	7-1	Title AF	1-RESOURCES	Date Date		
nditions of approval, if any, are attache tify that the applicant holds legal or equich would entitle the applicant to condi-	iitable title to those rights in the si	ot warrant or ubject lease Office	1-R650UPGS/ NMPUZOOO			

Additional data for EC transaction #515002 that would not fit on the form

32. Additional remarks, continued

Batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole

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A variance is requested to cement offline for the surface and intermediate casing strings.

Attachments: C102 & Supplement Casing/Cement Design Directional Plan Spudder Rig Description of Operations

Conditions of Approval

Big Eddy Unit 5E Han Solo 101H 30-015-46832

BOP Break Testing Variance (Note: Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater)

- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer prior to the commencement of any BOP Break Testing operations.

A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

✓ AMENDED REPORT

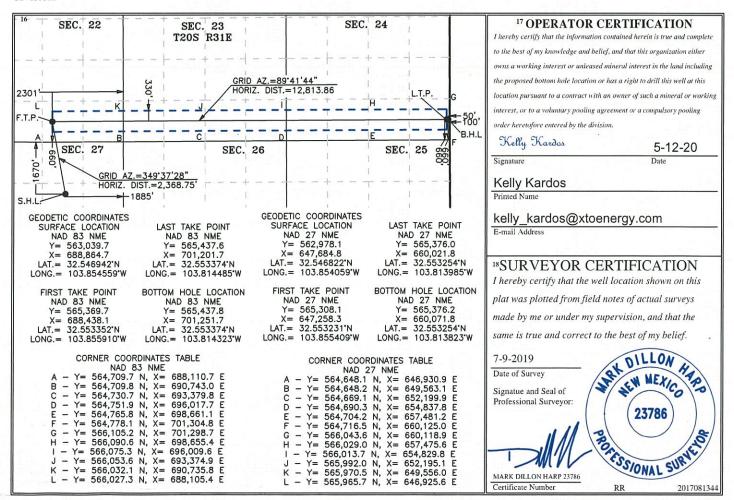
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool N	ame
30-015-46832	98232	WC-015 G-06 S203127G; BONE	SPRING
⁴ Property Code			⁶ Well Number
327350	327350 BIG EDDY UNIT 5E HAN SOLO		101H
7 OGRID No.		8 Operator Name	⁹ Elevation
373075 XTO PERMIA		ERMIAN OPERATING, LLC.	3,525'
3 2 1 1 1 2 2 2		Curface I coation	

¹⁰ Surface Location

UL or lot no. G	Section 27	Township 20 S	Range 31 E	Lot Idn	Feet from the	North/South line NORTH	Feet from the 1,885	East/West line EAST	County EDDY
		1641	11 Bott	om Hol	e Location If	Different Fron	Surface		- 1 THE E
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	20 S	31 E		660	SOUTH	50	EAST	EDDY
12 Dedicated Acre 400	s 13 Joint of	r Infill 14 C	onsolidation C	ode 15 Or	der 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.



	015-468 erator Nai	me:	06 324 3 3354 13803				perty Name		111991				Well Numbe
XTC) PERM	IIAN OPI	ERATIN	G, LL	С	Big	Eddy Uni	t 5E	HAN	SOL	.0		101H
												Manual Commen	
ick (Off Point												
JL }	Section 27	Township 20S	Range 31E	Lot	Feet 1670		From N/S North	Feet 188		From Eas	n E/W t	County Eddy	
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	Take Poir							_				,	
))	Section 22	Township 20S	Range 31E	Lot	Feet 660		From N/S South	Feet 230		From	n E/W t	County Eddy	
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												I.	
st 1	Гake Poin	t (LTP)											
JL	Section	t (LTP) Township 20S	Range 31E	Lot	Feet 660		m N/S Fee uth 100		From East		Count		
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KZ 06/29/2018

Big Eddy Unit 5E Han Solo 101H

Projected TD: 22631' MD / 9523' TVD SHL: 1670' FNL & 1885' FEL , Section 27, T205, R31E BHL: 660' FSL & 50' FEL , Section 24, T205, R31E

Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 810' (139' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 2757' and circulating cement to surface. The Capitan Reef zone will be isolated by setting 9-5/8 inch casing at 4050'. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to the 13-3/8 inch casing shoe.

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' - 810'	18-5/8"	87.5#	STC	H-40	New	1.90	1.70	7.89
17-1/2"	0' - 2757'	13-3/8"	54.5#	STC	J-55	New	2.90	1.30	3.42
12-1/4"	0' - 4050'	9-5/8"	36#	LTC	J-55	New	1.34	2.11	3.11
8-3/4" x 8-1/2"	0' - 22631'	5-1/2"	17#	втс	P-110	New	1.12	1.59	2.20

XTO requests to not utilize centralizers in the curve and lateral

13-3/8 & 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35.

WELLHEAD:

Temporary Wellhead

18-5/8" SOW bottom x 21-1/4" 2M top flange.

Permanent Wellhead – GE RSH Multibowl System

- A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange
- Wellhead will be installed by manufacturer's representatives.
 - · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - \cdot Operator will test the 9-5/8" casing per Onshore Order 2.
- · Wellhead manufacturer representative may not be present for BOP test plug installation

Cement Program

Surface Casing:

Lead: 680 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 550 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

1st Intermediate Casing:

 Lead: 1590 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

 Tail: 620 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

 Compressives:
 12-hr =
 900 psi
 24 hr = 1500 psi

2nd Intermediate Casing:

ECP/DV Tool to be set at 2790'

1st Stage

Lead: 80 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)
Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1151 psi

2nd Stage

Lead: 10 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)
Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx.water)
Compressives: 12-hr = 900 psi 24 hr = 1151 psi

Production Casing:

Lead: 760 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)
Tail: 2570 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)
Compressives: 12-hr = 1375 psi - 24 hr = 2285 psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 810'	24"	FW/Native	8.3 - 9.5	35-40	NC
810' - 2757'	17-1/2"	Brine	9.8-10.2	30-35	NC
2757' to 4050'	12-1/4"	FW / Cut Brine	8.3-9.0	30-32	NC .
4050' to 22631'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer/ OBM	9.2 - 9.5	29-32	NC - 20

DRILLING PLAN: BLM COMPLIANCE

(Supplement to BLM 3160-3)

XTO Energy Inc. BEU 5E Han Solo 101H

Projected TD: 22631' MD / 9523' TVD
SHL: 1670' FNL & 1885' FEL , Section 27, T20S, R31E
BHL: 660' FSL & 50' FEL , Section 24, T20S, R31E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	673'	Water
Top of Salt	949'	Water
Base of Salt	2657'	Water
Capitan	2861'	Water
Delaware	3943'	Water
Bone Spring	8404'	Water/Oil/Gas
1st Bone Spring Ss	8743'	Water/Oil/Gas
2nd Bone Spring Ss	9365'	Water/Oil/Gas
2nd Bone Spring Ss B	9553'	Water/Oil/Gas
Target/Land Curve	9523'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 810' (139' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 2757' and circulating cement to surface. The Capitan Reef zone will be isolated by setting 9-5/8 inch casing at 4050'. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to the 13-3/8 inch casing shoe.

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' - 810'	18-5/8"	87.5#	STC	H-40	New	1.90	1.70	7.89
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12-1/4"	0' - 4050'	9-5/8"	36#	LTC	J-55	New	1.35	2.11	3.11
8-3/4" x 8-1/2"	0' - 22631'	5-1/2"	17#	BTC	P-110	New	1.12	1.59	2.20

- XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 13-3/8" & 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Temporary Wellhead

• 18-5/8" SOW bottom x 21-1/4" 2M top flange.

Permanent Wellhead – GE RSH Multibowl System

- A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal.
 - Operator will test the 9-5/8" casing per BLM Onshore Order 2

^{***} Groundwater depth 40' (per NM State Engineers Office).

Wellhead manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5# New H-40, STC casing to be set at +/- 810'

Lead: 680 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 550 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

1st Intermediate Casing: 13-3/8", 54.5# New J-55, STC casing to be set at +/- 2757'

Lead: 1590 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)

Tail: 620 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9-5/8", 36# New J-55, LTC casing to be set at +/- 4050' ECP/DV Tool to be set at 2790'

1st Stage

Lead: 80 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)
Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 10 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)
Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 5-1/2", 17# New P-110, BTC casing to be set at +/- 22631'

Lead: 760 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)
Tail: 2570 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)
Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for on surf casing / temp. wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 856 psi.

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 3M 3-Ram BOP. MASP should not exceed 2609 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure but no greater than casing 70% burst. When nippling up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 810'	24"	FW/Native	8.3 - 9.5	35-40	NC
810' - 2757'	17-1/2"	Brine	9.8-10.2	30-35	NC
2757' to 4050'	12-1/4"	FW / Cut Brine	8.3-9.0	30-32	NC
4050' to 22631'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer/ OBM	9.2 - 9.5	29-32	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 18-5/8" surface casing with brine solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

Delaware Basin Asset

New Mexico, XTO
Big Eddy DI5
BEU 5E HAN SOLO 101H - Slot BEU 5E HAN SOLO 101H

BEU 5E HAN SOLO 101H

Plan: BEU 5E HAN SOLO 101H

Standard Planning Report - Geographic

07 April, 2020

Planning Report - Geographic

EDM 5000.1 Single User Db Database: Local Co-ordinate Reference: Site Big Eddy DI5 Company: Delaware Basin Asset BEU 5E HAN SOLO 101H Default @ TVD Reference: 3555.0usft BEU 5E HAN SOLO 101H Default @ Project: New Mexico, XTO MD Reference: 3555.0usft Site: Big Eddy DI5 Grid North Reference: BEU 5E HAN SOLO 101H Well: Survey Calculation Method: Minimum Curvature Wellbore: BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H Design: Project New Mexico, XTO Map System: US State Plane 1983 System Datum: Mean Sea Level North American Datum 1983 Geo Datum: Map Zone: New Mexico Eastern Zone

Site Big Eddy DI5 Northing: 562,560.46 usft Site Position: Latitude: 32° 32' 44.282 N Easting: 688,097.24 usft 103° 51' 25,405 W Мар Longitude: From: Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " 0.26 **Grid Convergence:**

BEU 5E HAN SOLO 101H - Slot BEU 5E HAN SOLO 101H Well Well Position +N/-S 479.7 usft Northing: 563,040,16 usft Latitude: 32° 32' 48,995 N +E/-W 768.2 usft Easting: 688.865.39 usft Longitude: 103° 51' 16.405 W **Position Uncertainty** 0.0 usft Wellhead Elevation: **Ground Level:** 3,525.0 usft

BEU 5E HAN SOLO 101H Wellbore **Model Name** Sample Date Declination Dip Angle Field Strength Magnetics (°) (°) (nT) IGRF2020 4/7/2020 6.84 60.19 47,778.73560945

BEU 5E HAN SOLO 101H Design Audit Notes: PLAN 0.0 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 479.7 768.2 79.04

Plan Survey Tool Program Date 4/7/2020 Depth From Depth To **Tool Name** (usft) (usft) Survey (Wellbore) Remarks 0.0 4,000.0 BEU 5E HAN SOLO 101H (BEU **OWSG GYRO-NS** OWSG Gyrocompass Gyro 4,000.0 22,631.1 BEU 5E HAN SOLO 101H (BEU MWD+IFR1+MS 2 OWSG MWD + IFR1 + Multi-S

Planning Report - Geographic

Database: Company: EDM 5000.1 Single User Db Delaware Basin Asset

Project:

New Mexico, XTO

Site: Well:

Wellbore: Design:

Big Eddy DI5

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Site Big Eddy DI5

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555,0usft

Grid

Measured			Vertical			Dogleg	Build	Turn		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	479.7	768.2	0.00	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	479.7	768.2	0.00	0.00	0.00	0.00	
3,000.0	6.00	40.00	2,999.5	491.7	778.2	2.00	2.00	0.00	40.00	
3,150.0	6.00	40.00	3,148.6	503.7	788.3	0.00	0.00	0.00	0.00	
4,088.7	21.59	345.00	4,060.0	710.0	775.0	2.00	1.66	-5.86	-69.50	
9,363.9	21.59	345.00	8,965.0	2,585.1	272.4	0.00	0.00	0.00	0.00	
10,317.4	90.00	89.69	9,550.0	2,812.1	841.7	10.00	7.17	10.98	103.71 FTP	14-1
22,631.2	90.00	89.69	9,550,0	2,877,8	13,155,3	0.00	0.00	0.00	0,00 BHL	14-1

Planning Report - Geographic

Database: Company:

EDM 5000.1 Single User Db

Delaware Basin Asset

New Mexico, XTO

Project: Site:

Well: Wellbore:

Design:

Big Eddy DI5

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site Big Eddy DI5

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555.0usft Grid

Minimum Curvature

Planned Survey

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.0		0.00	0.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16.405
100.0	0.00	0.00	100.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
200.0	0.00	0.00	200.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16.405
300.0	0.00	0.00	300.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
400.0	0.00	0.00	400.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
500.0	0.00	0.00	500.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
600.0	0.00	0.00	600.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51′ 16.405
700.0	0.00	0.00	700.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
800.0	0.00	0.00	0.008	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
900.0	0.00	0.00	900.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16.405
1,000.0	0.00	0.00	1,000.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
1,100.0	0.00	0.00	1,100.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16.405
1,200.0	0.00	0.00	1,200.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16.405
1,300.0	0.00	0.00	1,300.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16.405
1,400.0	0.00	0.00	1,400.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
1,500.0	0.00	0.00	1,500.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
1,600.0	0.00	0.00	1,600.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48.995 N	103° 51' 16,405
1,700.0	0.00	0.00	1,700.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
1,800.0	0.00	0.00	1,800.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48.995 N	103° 51' 16.405
1,900.0	0.00	0.00	1,900.0	479.7	768.2	563,040.16	688,865.39	32° 32′ 48,995 N	103° 51' 16,405
2,000.0	0.00	0.00	2,000.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
2,100.0	0.00	0.00	2,100.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
2,200.0	0.00	0.00	2,200.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48.995 N	103° 51' 16.405
2,300.0	0.00	0.00	2,300.0	479.7	768.2	563,040.16	688,865,39	32° 32' 48,995 N	103° 51' 16,405
2,400.0	0.00	0.00	2,400.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48.995 N	103° 51' 16.405
2,500.0	0.00	0.00	2,500.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48.995 N	103° 51' 16.405
2,600.0	0.00	0.00	2,600.0	479.7	768.2	563,040.16	688,865.39	32° 32' 48,995 N	103° 51' 16.405
2,700.0	0.00	0.00	2,700.0	479.7	768.2	563,040.16	688,865,39	32° 32' 48,995 N	103° 51' 16.405
2,800.0	2.00	40.00	2,800.0	481.0	769.3	563,041.50	688,866.51	32° 32' 49,008 N	103° 51' 16,392
2,900.0	4.00	40.00	2,899.8	485.0	772.6	563,045.51	688,869,88	32° 32' 49.048 N	103° 51' 16.353
3,000.0	6.00	40.00	2,999.5	491.7	778.2	563,052.18	688,875.48	32° 32' 49,113 N	103° 51' 16.287
3,100.0	6.00	40.00	3,098.9	499.7	785.0	563,060.19	688,882.20	32° 32' 49.192 N	103° 51' 16,208
3,150.0	6.00	40.00	3,148.6	503.7	788.3	563,064.20	688,885,56	32° 32' 49,232 N	103° 51' 16,168
3,200.0	6.42	31.59	3,198.3	508.1	791.5	563,068.58	688,888.70	32° 32' 49,275 N	103° 51' 16.131
3,300.0	7.59	18.21	3,297.6	519.2	796.5	563,079.61	688,893.69	32° 32' 49.384 N	103° 51' 16.073
3,400.0	9.05	8.74	3,396.5	533.2	799.7	563,093,66	688,896.95	32° 32' 49.523 N	103° 51' 16,034
3,500.0	10.69	2.02	3,495.1	550.2	801.2	563,110.71	688,898.48	32° 32' 49,691 N	103° 51' 16.015
3,600.0	12.43	357.11	3,593.0	570.3	801.0	563,130.73	688,898.26	32° 32' 49.889 N	103° 51' 16.017
3,700.0	14.24	353.41	3,690.3	593.2	799.1	563,153.70	688,896.30	32° 32' 50.117 N	103° 51' 16.038
3,800.0	16.10	350.54	3,786.8	619.1	795.4	563,179.60	688,892.61	32° 32' 50,373 N	103° 51' 16.080
3,900.0	17.98	348.25	3,882.5	647.9	790.0	563,208,38	688,887.19	32° 32' 50,658 N	103° 51' 16.142
4,000.0	19.89	346.38	3,977.0	679.6	782.8	563,240.03	688,880.04	32° 32' 50,972 N	103° 51' 16.224
4,088.7	21.59	345.00	4,060.0	710.0	775.0	563,270.47	688,872.26	32° 32' 51.273 N	103° 51' 16.313
4,100.0	21.59	345,00	4,070.5	714.0	774.0	563,274.47	688,871,19	32° 32' 51,313 N	103° 51' 16.325
4,200.0	21.59	345.00	4,163.5	749.6	764.4	563,310.02	688,861.66	32° 32' 51.665 N	103° 51' 16.435
4,300.0	21.59	345.00	4,256.5	785.1	754.9	563,345.57	688,852.13	32° 32' 52.017 N	103° 51' 16.544
4,400.0	21.59	345.00	4,349.4	820.7	745.4	563,381.11	688,842.60	32° 32' 52.370 N	103° 51' 16.654
4,500.0	21.59	345.00	4,442.4	856.2	735.8	563,416.66	688,833.08	32° 32' 52.722 N	103° 51' 16.763
4,600.0	21.59	345.00	4,535.4	891.7	726.3	563,452,21	688,823.55	32° 32' 53.074 N	103° 51' 16,872
4,700.0	21.59	345.00	4,628.4	927.3	716.8	563,487.75	688,814.02	32° 32' 53.426 N	103° 51' 16.982
4,800.0	21.59	345.00	4,721.4	962.8	707.3	563,523.30	688,804.49	32° 32' 53.778 N	103° 51' 17.091
4,900.0	21.59	345.00	4,721.4	998.4	697.7	563,558.84	688,794.97	32° 32' 54.130 N	103° 51' 17.201
5,000.0	21.59	345.00	4,907.3	1,033.9	688.2	563,594.39	688,785.44	32° 32' 54.483 N	103° 51' 17.310

Planning Report - Geographic

Database: Company: EDM 5000.1 Single User Db

Delaware Basin Asset

Project:

New Mexico, XTO

Site: Well:

Wellbore: Design:

Big Eddy DI5 BEU 5E HAN SOLO 101H

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site Big Eddy DI5

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555.0usft

Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.0		345.00	5,000.3	1,069.5	678.7	563,629.94	688,775.91	32° 32' 54,835 N	103° 51' 17.420
5,200.0		345.00	5,093.3	1,105.0	669.2	563,665.48	688,766.39	32° 32′ 55.187 N	103° 51' 17.529
5,300.0		345.00	5,186.3	1,140.6	659.6	563,701.03	688,756.86	32° 32' 55.539 N	103° 51' 17.63
5,400.0		345.00	5,279.3	1,176.1	650.1	563,736.58	688,747:33	32° 32' 55,891 N	103° 51' 17.74
5,500.0		345.00	5,372.3	1,211.7	640.6	563,772.12	688,737.80	32° 32' 56,243 N	103° 51' 17.85
5,600.0		345.00	5,465.2	1,247.2	631.0	563,807.67	688,728.28	32° 32' 56,596 N	103° 51' 17.96
5,700.0		345.00	5,558.2	1,282.8	621.5	563,843.21	688,718.75	32° 32' 56.948 N	103° 51' 18.07
5,800.0		345.00	5,651.2	1,318.3	612.0	563,878.76	688,709.22	32° 32' 57,300 N	103° 51' 18.18
5,900.0		345.00	5,744.2	1,353.8	602.5	563,914.31	688,699.70	32° 32' 57,652 N	103° 51' 18.29
6,000.0		345.00	5,837.2	1,389.4	592.9	563,949.85	688,690.17	32° 32′ 58.004 N	103° 51' 18.40
6,100.0		345.00	5,930.1	1,424.9	583.4	563,985.40	688,680.64	32° 32' 58,356 N	103° 51' 18.51
6,200.0		345.00	6,023.1	1,460.5	573.9	564,020.95	688,671.11	32° 32′ 58,709 N	103° 51' 18.62
6,300.0		345.00	6,116.1	1,496.0	564.4	564,056.49	688,661.59	32° 32' 59,061 N	103° 51' 18.73
6,400.0		345.00	6,209.1	1,531.6	554.8	564,092.04	688,652.06	32° 32' 59.413 N	103° 51' 18.84
6,500.0		345.00	6,302.1	1,567.1	545.3	564,127.58	688,642.53	32° 32′ 59.765 N	103° 51' 18.95
6,600.0		345.00	6,395.1	1,602.7	535.8	564,163.13	688,633.00	32° 33′ 0.117 N	103° 51' 19.06
6,700.0		345.00	6,488.0	1,638.2	526.2	564,198.68	688,623.48	32° 33' 0,469 N	103° 51' 19.17
6,800.0		345.00	6,581.0	1,673.8	516.7	564,234.22	688,613.95	32° 33' 0.821 N	103° 51' 19.28
6,900.0		345.00	6,674.0	1,709.3	507.2	564,269.77	688,604.42	32° 33′ 1.174 N	103° 51' 19.39
7,000.0		345.00	6,767.0	1,744.9	497.7	564,305.32	688,594.90	32° 33' 1.526 N	103° 51' 19.49
7,100.0		345.00	6,860.0	1,780.4	488.1	564,340.86	688,585.37	32° 33' 1.878 N	103° 51' 19.60
7,200.0		345.00	6,952.9	1,815.9	478.6	564,376.41	688,575.84	32° 33′ 2.230 N	103° 51' 19.71
7,300.0		345.00	7,045.9	1,851.5	469.1	564,411.95	688,566.31	32° 33' 2.582 N	103° 51' 19.82
7,400.0		345.00	7,138.9	1,887.0	459.6	564,447.50	688,556.79	32° 33' 2.934 N	103° 51' 19.93
7,500.0		345.00	7,231.9	1,922.6	450.0	564,483.05	688,547.26	32° 33' 3,287 N	103° 51' 20.04
7,600.0		345.00	7,324.9	1,958.1	440.5	564,518.59	688,537.73	32° 33' 3.639 N	103° 51' 20.15
7,700.0		345.00	7,417.9	1,993.7	431.0	564,554.14	688,528.20	32° 33' 3.991 N	103° 51' 20.26
7,800.0		345.00	7,510.8	2,029.2	421.4	564,589.69	688,518.68	32° 33′ 4.343 N	103° 51' 20.37
7,900.0		345.00	7,603.8	2,064.8	411.9	564,625,23	688,509.15	32° 33' 4.695 N	103° 51' 20.48
8,000.0		345.00	7,696.8	2,100.3	402.4	564,660.78	688,499.62	32° 33' 5.047 N	103° 51' 20.59
8,100.0		345.00	7,789.8	2,135.9	392.9	564,696.32	688,490.10	32° 33' 5.400 N	103° 51' 20.70
8,200.0		345.00	7,882.8	2,171.4	383.3	564,731.87	688,480.57	32° 33' 5,752 N	103° 51' 20.81
8,300.0		345.00	7,975.8	2,207.0	373.8	564,767.42	688,471.04	32° 33' 6,104 N	103° 51' 20.92
8,400.0		345.00	8,068.7	2,242.5	364.3	564,802.96	688,461.51	32° 33' 6.456 N	103° 51' 21.03
8,500.0		345.00	8,161.7	2,278.0	354.8	564,838.51	688,451.99	32° 33' 6.808 N	103° 51' 21.14
8,600.0		345.00	8,254.7	2,313.6	345.2	564,874.06	688,442.46	32° 33' 7.160 N	103° 51' 21.25
8,700.0		345.00	8,347.7	2,349.1	335.7	564,909.60	688,432.93	32° 33' 7,513 N	103° 51' 21.36
8,800.0		345.00	8,440.7	2,384.7	326.2	564,945.15	688,423.40	32° 33' 7.865 N	103° 51' 21.46
8,900.0		345.00	8,533.6	2,420.2	316.6	564,980.69	688,413.88	32° 33' 8.217 N	103° 51' 21.57
9,000.0		345.00	8,626.6	2,455.8	307.1	565,016.24	688,404.35	32° 33' 8,569 N	103° 51' 21.68
9,100.0		345.00	8,719.6	2,491.3	297.6	565,051.79	688,394.82	. 32° 33' 8.921 N	103° 51' 21.79
9,200.0		345.00	8,812.6	2,526.9	288.1	565,087.33	688,385.30	32° 33' 9.273 N	103° 51' 21.90
9,300.0		345.00	8,905.6	2,562.4	278.5	565,122.88	688,375.77	32° 33' 9.625 N	103° 51' 22.01
9,363.9		345.00	8,965.0	2,585.1	272.4	565,145,58	688,369.68	32° 33' 9.850 N	103° 51' 22.08
9,400.0		354.83	8,998.6	2,598.0	270.1	565,158.46	688,367.38	32° 33' 9.978 N	103° 51' 22.11
9,500.0		21.79	9,091.8	2,633.7	275.6	565,194.14	688,372.86	32° 33′ 10.331 N	103° 51' 22.04
9,600.0	27.51	42.39	9,182.5	2,668.6	298.3	565,229.02	688,395.58	32° 33′ 10.675 N	103° 51' 21.77
9,700.0		56.06	9,268.2	2,701.6	337.6	565,262.03	688,434.84	32° 33' 11,000 N	103° 51' 21.31
9,800.0	42.83	65,30	9,346.2	2,731.7	392.2	565,292.19	688,489.45	32° 33' 11.296 N	103° 51' 20.67
9,900.0	51.55	72.00	9,414.2	2,758.1	460.5	565,318.56	688,557.75	32° 33' 11.554 N	103° 51' 19.88
10,000.0	60.57	77.22	9,470.0	2,779.9	540.4	565,340.34	688,637.66	32° 33' 11.766 N	103° 51' 18.94
10,100.0	69.76	81.58 85.44	9,511.9 9,538.8	2,796.4 2,807.2	629,5 725,1	565,356.89	688,726,77	32° 33′ 11.925 N	103° 51' 17.903

Planning Report - Geographic

Database: Company: EDM 5000.1 Single User Db

Delaware Basin Asset

New Mexico, XTO

Project: Site:

Big Eddy DI5

Well: Wellbore: Design: BEU 5E HAN SOLO 101H

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Site Big Eddy DI5

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555.0usft

Grid

ned Survey						V- Was harper state of the state of		AN EMPEROR PER KINGS CHARLES	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,300.0	88.37	89.07	9,549.8	2,811.9	824.3	565,372.40	688,921.51	32° 33' 12.070 N	103° 51' 15.627
10,317.4	90.00	89.69	9,550.0	2,812.1	841.7	565,372.59	688,938.94	32° 33' 12,071 N	103° 51' 15.423
10,400.0	90.00	89.69	9,550.0	2,812.6	924.3	565,373.03	689,021.50	32° 33′ 12.072 N	103° 51' 14.459
10,500.0	90.00	89.69	9,550.0	2,813.1	1,024.3	565,373.57	689,121.50	32° 33' 12,073 N	103° 51' 13.290
10,600.0	90.00	89.69	9,550.0	2,813.6	1,124.3	565,374.10	689,221.50	32° 33′ 12.074 N	103° 51' 12.12
10,700.0	90.00	89.69	9,550.0	2,814.2	1,224.3	565,374.63	689,321.50	32° 33′ 12.075 N	103° 51' 10.95
10,800.0	90.00	89.69	9,550.0	2,814.7	1,324.3	565,375.17	689,421.50	32° 33' 12.075 N	103° 51' 9.78
10,900.0	90.00	89.69	9,550.0	2,815.2	1,424.3	565,375.70	689,521.49	32° 33' 12.076 N	103° 51' 8.61
11,000.0	90.00	89.69	9,550.0	2,815.8	1,524.3	565,376.23	689,621.49	32° 33' 12.077 N	103° 51' 7.44
11,100.0	90.00	89.69	9,550.0	2,816.3	1,624.3	565,376.77	689,721.49	32° 33' 12.078 N	103° 51' 6.28
11,200.0	90.00	89.69	9,550.0	2,816.8	1,724.3	565,377.30	689,821.49	32° 33′ 12.079 N	103° 51' 5.11:
11,300.0	90.00	89.69	9,550.0	2,817.4	1,824.3	565,377.83	689,921.49	32° 33′ 12.079 N	103° 51′ 3.94
11,400.0	90.00	89.69	9,550.0	2,817.9	1,924.3	565,378,37	690,021.49	32° 33′ 12.080 N	103° 51' 2.77
11,500.0	90.00	89.69	9,550.0	2,818.4	2,024.3	565,378.90	690,121.49	32° 33' 12.081 N	103° 51' 1.60
11,600.0	90.00	89.69	9,550.0	2,819.0	2,124.2	565,379.43	690,221.48	32° 33′ 12.082 N	103° 51' 0.43
11,700.0	90.00	89.69	9,550.0	2,819.5	2,224.2	565,379.97	690,321.48	32° 33′ 12.083 N	103° 50′ 59.27
11,800.0	90.00	89.69	9,550.0	2,820.0	2,324.2	565,380.50	690,421.48	32° 33′ 12.083 N	103° 50′ 58.10
11,900.0	90.00	89.69	9,550.0	2,820.6	2,424.2	565,381.03	690,521.48	32° 33′ 12.084 N	103° 50' 56.93
12,000.0	90.00	89.69	9,550.0	2,821.1	2,524.2	565,381.57	690,621.48	32° 33′ 12.085 N	103° 50' 55.76
12,100.0	90.00	89.69	9,550.0	2,821.6	2,624.2	565,382.10	690,721.48	32° 33′ 12,086 N	103° 50' 54.59
12,200.0	90.00	89.69	9,550.0	2,822.2	2,724.2	565,382.63	690,821.48	32° 33′ 12,086 N	103° 50' 53.42
12,300.0	90.00	89.69	9,550.0	2,822.7	2,824.2	565,383.17	690,921.47	32° 33′ 12.087 N	103° 50′ 52.26
12,400.0	90.00	89.69	9,550.0	2,823.2	2,924.2	565,383.70	691,021.47	32° 33′ 12.088 N	103° 50' 51.09
12,500.0	90.00	89.69	9,550.0	2,823.8	3,024.2	565,384.23	691,121.47	32° 33' 12,089 N	103° 50' 49.92
12,600.0	90.00		9,550.0	2,824.3	3,124.2	565,384.77	691,221.47	32° 33′ 12.089 N	103° 50' 48.75
12,700.0	90.00	89.69	9,550.0	2,824.8	3,224.2	565,385.30	691,321.47	32° 33′ 12.090 N	103° 50' 47.58
12,800.0	90.00	89.69	9,550.0	2,825.4	3,324.2	565,385.83	691,421.47	32° 33′ 12.091 N	103° 50' 46.41
12,900.0	90.00	89.69	9,550.0	2,825.9	3,424.2	565,386.37	691,521.47	32° 33' 12.092 N	103° 50' 45.24
13,000.0	90.00	89.69	9,550.0	2,826.4	3,524.2	565,386.90	691,621.46	32° 33' 12.092 N	103° 50' 44.08
13,100.0	90.00	89.69	9,550.0	2,827.0	3,624.2	565,387.43	691,721.46	32° 33′ 12.093 N	103° 50' 42.91
13,200.0	90.00	89.69	9,550.0	2,827.5	3,724.2	565,387.97	691,821.46	32° 33' 12.094 N	103° 50' 41.74
13,300.0	90.00	89.69	9,550.0	2,828.0	3,824.2	565,388.50	691,921.46	32° 33′ 12.095 N	103° 50' 40.57
13,400.0	90.00	89.69	9,550.0	2,828.6	3,924.2	565,389.03	692,021.46	32° 33′ 12.095 N	103° 50′ 39.40′
13,500.0	90.00	89,69	9,550.0	2,829.1	4,024.2	565,389.57	692,121.46	32° 33′ 12.096 N	103° 50' 38.23
13,600.0	90.00	89.69	9,550.0	2,829.6	4,124.2	565,390.10	692,221.46	32° 33' 12.097 N	103° 50' 37.07
13,700.0	90.00	89.69	9,550.0	2,830.2	4,224.2	565,390.63	692,321.45	32° 33' 12.098 N	103° 50' 35.90
13,800.0	90.00	89.69	9,550.0	2,830.7	4,324.2	565,391.17	692,421.45	32° 33′ 12,098 N	103° 50' 34.73
13,900.0	90.00	89.69	9,550.0	2,831.2	4,424.2	565,391.70	692,521.45	32° 33' 12.099 N	103° 50' 33,560
14,000.0	90.00	89.69	9,550.0	2,831.8	4,524.2	565,392.23	692,621.45	32° 33' 12.100 N	103° 50' 32.39
14,100.0	90.00	89.69	9,550.0	2,832.3	4,624.2	565,392.77	692,721.45	32° 33' 12.100 N	103° 50' 31.22
14,200.0	90.00	89,69	9,550.0	2,832.8	4,724.2	565,393,30	692,821.45	32° 33' 12,101 N .	103° 50' 30.060
14,300.0	90.00	89.69	9,550.0	2,833.4	4,824.2	565,393.83	692,921.45	32° 33' 12.102 N	103° 50' 28.892
14,400.0	90.00	89.69	9,550.0	2,833.9	4,924.2	565,394.37	693,021.45	32° 33' 12.103 N	103° 50' 27.724
14,500.0	90.00	89.69	9,550.0	2,834.4	5,024.2	565,394.90	693,121.44	32° 33' 12.103 N	103° 50' 26.555
14,600.0	90.00	89.69	9,550.0	2,835.0	5,124.2	565,395.43	693,221.44	32° 33' 12.104 N	103° 50' 25,387
14,700.0	90.00	89.69	9,550.0	2,835.5	5,224.2	565,395.97	693,321.44	32° 33' 12.105 N	103° 50' 24.219
14,800.0	90.00	89.69	9,550.0	2,836.0	5,324.2	565,396.50	693,421.44	32° 33' 12.105 N	103° 50' 23.050
14,900.0	90.00	89.69	9,550.0	2,836.6	5,424.2	565,397.03	693,521.44	32° 33' 12.106 N	103° 50' 21.882
15,000.0	90.00	89.69	9,550.0	2,837.1	5,524.2	565,397.57	693,621.44	32° 33' 12.107 N	103° 50' 20.713
15,100.0	90.00	89.69	9,550.0	2,837.6	5,624.2	565,398.10	693,721.44	32° 33' 12.107 N	103° 50' 19.545
15,200.0	90.00	89.69	9,550.0	2,838.2	5,724.2	565,398.63	693,821.43	32° 33' 12.108 N	103° 50' 18.377
15,300.0	90.00 90.00	89.69 89.69	9,550.0 9,550.0	2,838.7 2,839.2	5,824.2 5,924.2	565,399.17 565,399.70	693,921.43 694,021.43	32° 33' 12.109 N 32° 33' 12.109 N	103° 50' 17,208 103° 50' 16,040

Planning Report - Geographic

Database: Company:

Project:

Site:

EDM 5000.1 Single User Db

Delaware Basin Asset

New Mexico, XTO

Local Co-ordinate Reference:

Site Big Eddy DI5

TVD Reference:

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555.0usft

Big Eddy DI5

Well:
Wellbore:
Design:

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H North Reference:

Survey Calculation Method:

Grid

Measured			Vertical			Мар	Мар		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
15,500.0	90.00	89,69	9,550.0	2,839.8	6,024.2	565,400.23	694,121,43	32° 33' 12.110 N	103° 50' 14.872
15,600.0	90.00	89.69	9,550.0	2,840.3	6,124.2	565,400.77	694,221.43	32° 33' 12,111 N	103° 50' 13.703
15,700.0	90.00	89.69	9,550.0	2,840.8	6,224.2	565,401.30	694,321.43	32° 33' 12.111 N	103° 50' 12.535
15,800.0	90.00	89.69	9,550.0	2,841.4	6,324.2	565,401.83	694,421.43	32° 33' 12.112 N	103° 50' 11.366
15,900.0	90.00	89.69	9,550.0	2,841.9	6,424.2	565,402.37	694,521.42	32° 33' 12.113 N	103° 50' 10.198
16,000.0	90.00	89.69	9,550.0	2,842.4	6,524.2	565,402.90	694,621.42	32° 33' 12,113 N	103° 50' 9,03
16,100.0	90.00	89.69	9,550.0	2,843.0	6,624.2	565,403.43	694,721.42	32° 33' 12,114 N	103° 50′ 7.86
16,200.0	90.00	89.69	9,550.0	2,843.5	6,724.2	565,403.97	694,821.42	32° 33' 12,115 N	103° 50' 6.69
16,300.0	90.00	89.69	9,550.0	2,844.0	6,824.2	565,404.50	694,921.42	32° 33' 12,115 N	103° 50′ 5.52
16,400.0	90.00	89.69	9,550.0	2,844.6	6,924.2	565,405.03	695,021.42	32° 33' 12,116 N	103° 50′ 4,35
16,500.0	90.00	89.69	9,550.0	2,845.1	7,024.2	565,405.57	695,121.42	32° 33' 12.117 N	103° 50' 3.18
16,600.0	90.00	89.69	9,550.0	2,845.6	7,124.2	565,406.10	695,221.41	32° 33' 12,117 N	103° 50' 2.01
16,700.0	90.00	89,69	9,550.0	2,846.2	7,224.2	565,406.63	695,321.41	32° 33' 12,118 N	103° 50' 0.85
16,800.0	90.00	89.69	9,550.0	2,846.7	7,324.2	565,407.17	695,421.41	32° 33' 12.119 N	103° 49' 59.68
16,900.0	90.00	89.69	9,550.0	2,847.2	7,424.2	565,407.70	695,521.41	32° 33' 12.119 N	103° 49' 58.51
17,000.0	90.00	89.69	9,550.0	2,847.8	7,524.2	565,408.23	695,621.41	32° 33' 12,120 N	103° 49' 57.34
17,100.0	90.00	89,69	9,550.0	2,848.3	7,624.2	565,408.77	695,721.41	32° 33' 12,120 N	103° 49' 56,17
17,200.0	90.00	89.69	9,550.0	2,848.8	7,724.2	565,409.30	695,821.41	32° 33' 12.121 N	103° 49' 55.00
17,300.0	90.00	89.69	9,550.0	2,849.4	7,824.2	565,409.83	695,921.40	32° 33' 12.122 N	103° 49' 53.84
17,400.0	90.00	89.69	9,550.0	2,849.9	7,924.2	565,410.37	696,021.40	32° 33' 12,122 N	103° 49' 52.67
17,500.0	90.00	89.69	9,550.0	2,850.4	8,024.2	565,410.90	696,121.40	32° 33' 12,123 N	103° 49' 51,50
17,600.0	90.00	89.69	9,550.0	2,851.0	8,124.2	565,411.43	696,221.40	32° 33′ 12.124 N	103° 49' 50.33
17,700.0	90.00	89.69	9,550.0	2,851.5	8,224.2	565,411.97	696,321.40	32° 33′ 12.124 N	103° 49' 49.16
17,800.0	90.00	89.69	9,550.0	2,852.0	8,324.2	565,412.50	696,421.40	32° 33' 12,125 N	103° 49' 47.99
17,900.0	90.00	89.69	9,550.0	2,852.6	8,424.2	565,413.03	696,521.40	32° 33' 12,125 N	103° 49' 46.83
18,000.0	90.00	89.69	9,550.0	2,853.1	8,524.2	565,413.57	696,621.39	32° 33' 12,126 N	103° 49' 45.66
18,100.0	90.00	89.69	9,550.0	2,853.6	8,624.2	565,414.10	696,721.39	32° 33' 12.127 N	103° 49' 44.49
18,200.0	90.00	89.69	9,550.0	2,854.2	8,724.2	565,414.63	696,821.39	32° 33' 12,127 N	103° 49' 43.32
18,300.0	90.00	89.69	9,550.0	2,854.7	8,824.2	565,415.17	696,921.39	32° 33' 12,128 N	103° 49' 42.15
18,400.0	90.00	89.69	9,550.0	2,855.2	8,924.2	565,415.70	697,021.39	32° 33' 12,128 N	103° 49' 40.98
18,500.0	90.00	89.69	9,550.0	2,855.8	9,024.2	565,416.23	697,121.39	32° 33' 12,129 N	103° 49' 39.82
18,600.0	90.00	89.69	9,550.0	2,856.3	9,124.1	565,416.77	697,221.39	32° 33' 12,129 N	103° 49' 38.65
18,700.0	90.00	89.69	9,550.0	2,856.8	9,224.1	565,417.30	697,321.38	32° 33' 12,130 N	103° 49' 37.48
18,800.0	90.00	89.69	9,550.0	2,857.4	9,324.1	565,417.83	697,421.38	32° 33' 12,131 N	103° 49' 36.31
18,900.0	90.00	89.69	9,550.0	2,857.9	9,424.1	565,418.37	697,521.38	32° 33' 12.131 N	103° 49' 35.14
19,000.0	90.00	89.69	9,550.0	2,858.4	9,524.1	565,418.90	697,621.38	32° 33' 12.132 N	103° 49' 33.97
19,100.0	90.00	89.69	9,550.0	2,859.0	9,624.1	565,419.43	697,721.38	32° 33' 12.132 N	103° 49' 32.81
19,200.0	90.00	89.69	9,550.0	2,859.5	9,724.1	565,419.97	697,821.38	32° 33' 12.133 N	103° 49' 31.64
19,300.0	90.00	89.69	9,550.0	2,860.0	9,824.1	565,420.50	697,921.38	32° 33' 12.133 N	103° 49' 30.47
19,400.0	90.00	89.69	9,550.0	2,860.6	9,924.1	565,421.03	698,021.37	32° 33' 12.134 N	103° 49' 29.30
19,500.0	90.00	89.69	9,550.0	2,861.1	10,024.1	565,421.57	698,121.37	32° 33' 12,135 N	103° 49' 28.13
19,600.0	90.00	89.69	9,550.0	2,861.6	10,124.1	565,422.10	698,221.37	32° 33' 12.135 N	103° 49' 26.96
19,700.0	90.00	89.69	9,550.0	2,862.2	10,224.1	565,422.63	698,321.37	32° 33' 12.136 N	103° 49' 25.80
19,800.0	90.00	89.69	9,550.0	2,862.7	10,324.1	565,423.17	698,421.37	32° 33' 12,136 N	103° 49' 24.63
19,900.0	90.00	89,69	9,550.0	2,863.2	10,424.1	565,423.70	698,521.37	32° 33' 12,137 N	103° 49' 23.46
20,000.0	90.00	89.69	9,550.0	2,863.8	10,524.1	565,424.23	698,621.37	32° 33' 12.137 N	103° 49' 22.29
20,100.0	90.00	89.69	9,550.0	2,864.3	10,624.1	565,424.77	698,721.36	32° 33' 12.138 N	103° 49' 21.12
20,200.0	90.00	89,69	9,550.0	2,864.8	10,724.1	565,425.30	698,821.36	32° 33' 12,138 N	103° 49' 19.95
20,300.0	90.00	89.69	9,550.0	2,865.4	10,824.1	565,425.83	698,921.36	32° 33' 12,139 N	103° 49' 18.79
20,400.0	90.00	89.69	9,550.0	2,865.9	10,924.1	565,426.37	699,021.36	32° 33' 12.139 N	103° 49' 17.62
20,500.0	90.00	89.69	9,550.0	2,866.4	11,024.1	565,426.90	699,121.36	32° 33' 12.140 N	103° 49' 16.45
20,600.0	90.00	89,69	9,550.0	2,867.0	11,124.1	565,427.43	699,221.36	32° 33' 12,140 N	103° 49' 15.28
20,700.0	90.00	89.69	9,550.0	2,867.5	11,224.1	565,427.97	699,321.36	32° 33' 12,141 N	103° 49' 14.11

Planning Report - Geographic

Database: Company:

EDM 5000.1 Single User Db

Delaware Basin Asset

Project:

New Mexico, XTO

Site: Well: Big Eddy DI5

Wellbore: Design:

BEU 5E HAN SOLO 101H BEU 5E HAN SOLO 101H

BEU 5E HAN SOLO 101H

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference: Survey Calculation Method: Site Big Eddy DI5

BEU 5E HAN SOLO 101H Default @

3555.0usft

BEU 5E HAN SOLO 101H Default @

3555.0usft

Grid

Measured			Vertical			Мар	Мар		
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
20,800.0	90.00	89.69	9,550.0	2,868.0	11,324.1	565,428.50	699,421.35	32° 33' 12.141 N	103° 49' 12.948 W
20,900.0	90.00	89.69	9,550.0	2,868.6	11,424.1	565,429.03	699,521.35	32° 33' 12.142 N	103° 49' 11.779 W
21,000.0	90.00	89.69	9,550.0	2,869.1	11,524.1	565,429.57	699,621.35	32° 33' 12.142 N	103° 49' 10.611 W
21,100.0	90.00	89.69	9,550.0	2,869.6	11,624.1	565,430.10	699,721.35	32° 33' 12.143 N	103° 49' 9.443 W
21,200.0	90.00	89.69	9,550.0	2,870.2	11,724.1	565,430.63	699,821.35	32° 33' 12,143 N	103° 49' 8.274 W
21,300.0	90.00	89.69	9,550.0	2,870.7	11,824.1	565,431.17	699,921.35	32° 33' 12.144 N	103° 49' 7.106 W
21,400.0	90.00	89.69	9,550.0	2,871.2	11,924.1	565,431.70	700,021.35	32° 33' 12.144 N	103° 49' 5.938 W
21,500.0	90.00	89.69	9,550.0	2,871.8	12,024.1	565,432,23	700,121.34	32° 33' 12,145 N	103° 49' 4.769 W
22,631.2	90.00	89.69	9,550.0	2,877.8	13,155,3	565,438,25	701,252,57	32° 33' 12,150 N	103° 48' 51,552 W

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP 14-1 - plan hits target ce - Rectangle (sides		196.41 D0.0)	9,550.0	2,812.1	841.7	565,372.59	688,938.94	32° 33′ 12.071 N	103° 51' 15.423 W
BHL 14-1 - plan hits target ce - Rectangle (sides		257.38 D0.0)	9,550.0	2,877.8	13,155.3	565,438.25	701,252.57	32° 33′ 12.150 N	103° 48' 51.552 W

Casing Points							
	Measured	Vertical			Casing	Hole	
	Depth	Depth			Diameter	Diameter	
	(usft)	(usft)		Name	(")	(")	
	1,000.0	1,000.0	17.75		17-3/4	17-3/4	TON COLUMN

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

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