

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTEMNRD-OCD ARTESIA
REC'D: 6/04/2020FORM 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 re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.****SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMLC065431
2. Name of Operator XTO PERMIAN OPERATING LLC Contact: KELLY KARDOS E-Mail: kelly_kardos@xtoenergy.com		6. If Indian, Allottee or Tribe Name
3a. Address 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-620-4374	7. If Unit or CA/Agreement, Name and/or No. NMNM68294X
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T20S R31E Mer NMP SWNE 2050FNL 1873FEL 2145FNL 1855FEL		8. Well Name and No. BIG EDDY UNIT 5E HAN SOLO 104H
		9. API Well No. 30-015-46834
		10. Field and Pool or Exploratory Area WILDCAT 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			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompletable 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 recompletable 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, LLC requests permission to make the following changes to the original APD:

Change the SHL from 2050FNL & 1873FEL to 2145FNL & 1855FEL *NO SURFACE DISTURBANCE*

Change the BHL from 1980FSL & 200FEL to 1980FSL & 50FEL

Change the casing/cement design per the attached drilling program.

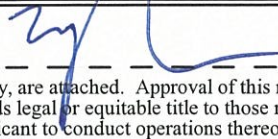
XTO requests the following variances:

Approval to utilize a spudder rig to pre-set surface casing per the attached Description of Operations.

Surface good same COA'S BR 6-3-20
06/02/20 - AM All cons apply. Additional cons regarding shell testing apply.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #515003 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 05/12/2020 ()	
Name (Printed/Typed) KELLY KARDOS	Title REGULATORY COORDINATOR
Signature (Electronic Submission)	Date 05/12/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title AFM-Resources	Date 03 Jun 2020
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 LWMPO2000	

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)

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

Additional data for EC transaction #515003 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

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 104H
30-015-46834

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

EMNRD-OCD ARTESIA
REC'D: 6/04/2020 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 30-015-46834	² Pool Code 98232	³ Pool Name WC-015 G-06 S203127G; BONE SPRING
⁴ Property Code	⁵ Property Name BIG EDDY UNIT 5E HAN SOLO	⁶ Well Number 104H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.	⁹ Elevation 3,525'

¹⁰ Surface Location

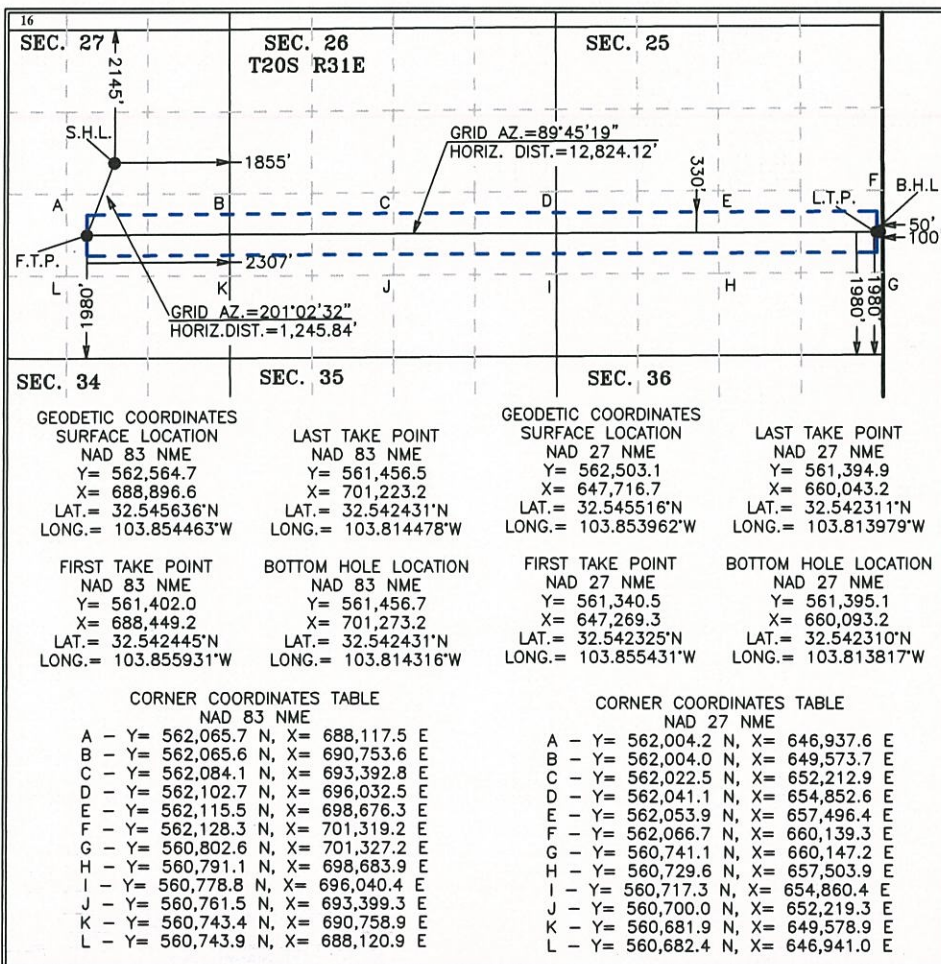
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	27	20 S	31 E		2,145	NORTH	1,855	EAST	EDDY

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
I	25	20 S	31 E		1,980	SOUTH	50	EAST	EDDY

¹² Dedicated Acres 400	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



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.

Kelly Kardos

05-08-20

Signature

Date

Kelly Kardos

Printed Name

kelly_kardos@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.

7-9-2019

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786

Certificate Number

RR

2017081346

RWP 6/11/2020

Intent ☒ As Drilled ☐

API # 30-015-46834								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name: Big Eddy Unit 5E Han Solo			Well Number 104H		

Kick Off Point (KOP)

UL G	Section 27	Township 20S	Range 31E	Lot	Feet 2145	From N/S North	Feet 1855	From E/W East	County Eddy
Latitude 32.545636					Longitude -103.854463				NAD 83

First Take Point (FTP)

UL J	Section 27	Township 20S	Range 31E	Lot	Feet 1980	From N/S South	Feet 2307	From E/W East	County Eddy
Latitude 32.542445					Longitude -103.855931				NAD 83

Last Take Point (LTP)

UL I	Section 25	Township 20S	Range 31E	Lot	Feet 1980	From N/S South	Feet 100	From E/W East	County Eddy
Latitude 32.542431					Longitude -103.814478				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 #								
Operator Name: XTO PERMIAN OPERATING, LLC			Property Name:			Well Number		

KZ 06/29/2018

Big Eddy Unit SE Han Solo 104H
 Projected TD: 22366' MD / 9570' TVD
 SHL: 2145' FNL & 1855' FEL, Section 27, T20S, R31E
 BHL: 1980' FSL & 50' FEL, Section 25, T20S, 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/TO 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' – 22366'	5-1/2"	17#	BTC	P-110	New	1.12	1.58	2.24

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.
 - 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: 730 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 22366'	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 104H
Projected TD: 22366' MD / 9570' TVD
SHL: 2145' FNL & 1855' FEL , Section 27, T20S, R31E
BHL: 1980' FSL & 50' FEL , Section 25, 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	9273'	Water/Oil/Gas
2nd Bone Spring Ss B	9497'	Water/Oil/Gas
Target/Land Curve	9570'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

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	1.34	2.11	3.11
8-3/4" x 8-1/2"	0' – 22366'	5-1/2"	17#	BTC	P-110	New	1.12	1.58	2.24

- 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

- 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 +/- 22366'

Lead: 730 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 2622 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 nipping up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nipping 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 22366'	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 104H - Slot BEU 5E HAN SOLO 104H

BEU 5E HAN SOLO 104H

Plan: BEU 5E HAN SOLO 104H

Standard Planning Report - Geographic

08 April, 2020

Halliburton

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy DI5	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Project	New Mexico, XTO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Big Eddy DI5				
Site Position:		Northing:	562,560.46 usft	Latitude:	32° 32' 44.282 N
From:	Map	Easting:	688,097.24 usft	Longitude:	103° 51' 25.405 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.26 °

Well	BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H					
Well Position	+N/-S	0.0 usft	Northing:	562,565.17 usft	Latitude:	32° 32' 44.293 N
	+E/-W	0.0 usft	Easting:	688,897.42 usft	Longitude:	103° 51' 16.056 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,525.0 usft

Wellbore	BEU 5E HAN SOLO 104H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	12/31/2009	7.92	60.47	48,924.12256124

Design	BEU 5E HAN SOLO 104H				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	95.12	

Plan Survey Tool Program	Date	4/8/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	4,000.0 BEU 5E HAN SOLO 104H (BEU	OWSG GYRO-NS		
			OWSG Gyrocompass Gyro		
2	4,000.0	22,366.1 BEU 5E HAN SOLO 104H (BEU	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-S		

Halliburton
Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy DI5	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,950.0	5.00	80.00	2,949.7	1.9	10.7	2.00	2.00	0.00	80.00	
3,300.0	5.00	80.00	3,298.4	7.2	40.8	0.00	0.00	0.00	0.00	
3,550.0	0.00	0.00	3,548.0	9.1	51.5	2.00	-2.00	0.00	180.00	
4,050.0	0.00	0.00	4,048.0	9.1	51.5	0.00	0.00	0.00	0.00	
4,781.0	14.62	208.90	4,771.2	-72.1	6.7	2.00	2.00	0.00	208.90	
9,071.5	14.62	208.90	8,922.7	-1,020.3	-516.7	0.00	0.00	0.00	0.00	
10,042.1	90.00	89.76	9,550.0	-1,160.8	52.5	10.00	7.77	-12.27	-118.35 FTP	16-1
22,366.1	90.00	89.76	9,550.0	-1,108.4	12,376.4	0.00	0.00	0.00	0.00 BHL	16-1

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Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy D15	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
100.0	0.00	0.00	100.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
200.0	0.00	0.00	200.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
300.0	0.00	0.00	300.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
400.0	0.00	0.00	400.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
500.0	0.00	0.00	500.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
600.0	0.00	0.00	600.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
700.0	0.00	0.00	700.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
800.0	0.00	0.00	800.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
900.0	0.00	0.00	900.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	562,565.17	688,897.42	32° 32' 44.293 N	103° 51' 16.056 W
Start Build 2.00									
2,800.0	2.00	80.00	2,800.0	0.3	1.7	562,565.47	688,899.14	32° 32' 44.296 N	103° 51' 16.036 W
2,900.0	4.00	80.00	2,899.8	1.2	6.9	562,566.38	688,904.29	32° 32' 44.305 N	103° 51' 15.976 W
2,950.0	5.00	80.00	2,949.7	1.9	10.7	562,567.06	688,908.15	32° 32' 44.311 N	103° 51' 15.931 W
Start 350.0 hold at 2950.0 MD									
3,000.0	5.00	80.00	2,999.5	2.6	15.0	562,567.82	688,912.45	32° 32' 44.319 N	103° 51' 15.880 W
3,100.0	5.00	80.00	3,099.1	4.2	23.6	562,569.33	688,921.03	32° 32' 44.333 N	103° 51' 15.780 W
3,200.0	5.00	80.00	3,198.7	5.7	32.2	562,570.84	688,929.61	32° 32' 44.348 N	103° 51' 15.680 W
3,300.0	5.00	80.00	3,298.4	7.2	40.8	562,572.36	688,938.20	32° 32' 44.363 N	103° 51' 15.579 W
Start Drop -2.00									
3,400.0	3.00	80.00	3,398.1	8.4	47.6	562,573.57	688,945.06	32° 32' 44.374 N	103° 51' 15.499 W
3,500.0	1.00	80.00	3,498.0	9.0	51.1	562,574.18	688,948.50	32° 32' 44.380 N	103° 51' 15.459 W
3,550.0	0.00	0.00	3,548.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
Start 500.0 hold at 3550.0 MD									
3,600.0	0.00	0.00	3,598.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
3,700.0	0.00	0.00	3,698.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
3,800.0	0.00	0.00	3,798.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
3,900.0	0.00	0.00	3,898.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
4,000.0	0.00	0.00	3,998.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
4,050.0	0.00	0.00	4,048.0	9.1	51.5	562,574.25	688,948.93	32° 32' 44.381 N	103° 51' 15.454 W
Start Build 2.00									
4,100.0	1.00	208.90	4,098.0	8.7	51.3	562,573.87	688,948.72	32° 32' 44.377 N	103° 51' 15.456 W
4,200.0	3.00	208.90	4,198.0	5.6	49.6	562,570.81	688,947.03	32° 32' 44.347 N	103° 51' 15.476 W

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Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy DI5	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
4,300.0	5.00	208.90	4,297.7	-0.5	46.2	562,564.71	688,943.66	32° 32' 44.287 N	103° 51' 15.516 W
4,400.0	7.00	208.90	4,397.2	-9.6	41.2	562,555.56	688,938.61	32° 32' 44.196 N	103° 51' 15.575 W
4,500.0	9.00	208.90	4,496.2	-21.8	34.5	562,543.37	688,931.89	32° 32' 44.076 N	103° 51' 15.655 W
4,600.0	11.00	208.90	4,594.7	-37.0	26.1	562,528.17	688,923.50	32° 32' 43.926 N	103° 51' 15.753 W
4,700.0	13.00	208.90	4,692.5	-55.2	16.0	562,509.97	688,913.45	32° 32' 43.746 N	103° 51' 15.872 W
4,781.0	14.62	208.90	4,771.2	-72.1	6.7	562,493.03	688,904.10	32° 32' 43.579 N	103° 51' 15.982 W
Start 4290.5 hold at 4781.0 MD									
4,800.0	14.62	208.90	4,789.5	-76.3	4.4	562,488.84	688,901.79	32° 32' 43.538 N	103° 51' 16.009 W
4,900.0	14.62	208.90	4,886.3	-98.4	-7.8	562,466.74	688,889.59	32° 32' 43.320 N	103° 51' 16.153 W
5,000.0	14.62	208.90	4,983.0	-120.5	-20.0	562,444.65	688,877.39	32° 32' 43.102 N	103° 51' 16.296 W
5,100.0	14.62	208.90	5,079.8	-142.6	-32.2	562,422.55	688,865.19	32° 32' 42.883 N	103° 51' 16.440 W
5,200.0	14.62	208.90	5,176.6	-164.7	-44.4	562,400.45	688,852.99	32° 32' 42.665 N	103° 51' 16.584 W
5,300.0	14.62	208.90	5,273.3	-186.8	-56.6	562,378.35	688,840.80	32° 32' 42.447 N	103° 51' 16.727 W
5,400.0	14.62	208.90	5,370.1	-208.9	-68.8	562,356.25	688,828.60	32° 32' 42.229 N	103° 51' 16.871 W
5,500.0	14.62	208.90	5,466.8	-231.0	-81.0	562,334.15	688,816.40	32° 32' 42.011 N	103° 51' 17.015 W
5,600.0	14.62	208.90	5,563.6	-253.1	-93.2	562,312.05	688,804.20	32° 32' 41.793 N	103° 51' 17.158 W
5,700.0	14.62	208.90	5,660.4	-275.2	-105.4	562,289.95	688,792.00	32° 32' 41.575 N	103° 51' 17.302 W
5,800.0	14.62	208.90	5,757.1	-297.3	-117.6	562,267.85	688,779.80	32° 32' 41.356 N	103° 51' 17.446 W
5,900.0	14.62	208.90	5,853.9	-319.4	-129.8	562,245.75	688,767.60	32° 32' 41.138 N	103° 51' 17.589 W
6,000.0	14.62	208.90	5,950.7	-341.5	-142.0	562,223.65	688,755.41	32° 32' 40.920 N	103° 51' 17.733 W
6,100.0	14.62	208.90	6,047.4	-363.6	-154.2	562,201.55	688,743.21	32° 32' 40.702 N	103° 51' 17.877 W
6,200.0	14.62	208.90	6,144.2	-385.7	-166.4	562,179.45	688,731.01	32° 32' 40.484 N	103° 51' 18.020 W
6,300.0	14.62	208.90	6,240.9	-407.8	-178.6	562,157.36	688,718.81	32° 32' 40.266 N	103° 51' 18.164 W
6,400.0	14.62	208.90	6,337.7	-429.9	-190.8	562,135.26	688,706.61	32° 32' 40.048 N	103° 51' 18.308 W
6,500.0	14.62	208.90	6,434.5	-452.0	-203.0	562,113.16	688,694.41	32° 32' 39.829 N	103° 51' 18.451 W
6,600.0	14.62	208.90	6,531.2	-474.1	-215.2	562,091.06	688,682.22	32° 32' 39.611 N	103° 51' 18.595 W
6,700.0	14.62	208.90	6,628.0	-496.2	-227.4	562,068.96	688,670.02	32° 32' 39.393 N	103° 51' 18.739 W
6,800.0	14.62	208.90	6,724.7	-518.3	-239.6	562,046.86	688,657.82	32° 32' 39.175 N	103° 51' 18.882 W
6,900.0	14.62	208.90	6,821.5	-540.4	-251.8	562,024.76	688,645.62	32° 32' 38.957 N	103° 51' 19.026 W
7,000.0	14.62	208.90	6,918.3	-562.5	-264.0	562,002.66	688,633.42	32° 32' 38.739 N	103° 51' 19.170 W
7,100.0	14.62	208.90	7,015.0	-584.6	-276.2	561,980.56	688,621.22	32° 32' 38.521 N	103° 51' 19.313 W
7,200.0	14.62	208.90	7,111.8	-606.7	-288.4	561,958.46	688,609.03	32° 32' 38.303 N	103° 51' 19.457 W
7,300.0	14.62	208.90	7,208.6	-628.8	-300.6	561,936.36	688,596.83	32° 32' 38.084 N	103° 51' 19.601 W
7,400.0	14.62	208.90	7,305.3	-650.9	-312.8	561,914.26	688,584.63	32° 32' 37.866 N	103° 51' 19.744 W
7,500.0	14.62	208.90	7,402.1	-673.0	-325.0	561,892.17	688,572.43	32° 32' 37.648 N	103° 51' 19.888 W
7,600.0	14.62	208.90	7,498.8	-695.1	-337.2	561,870.07	688,560.23	32° 32' 37.430 N	103° 51' 20.032 W
7,700.0	14.62	208.90	7,595.6	-717.2	-349.4	561,847.97	688,548.03	32° 32' 37.212 N	103° 51' 20.175 W
7,800.0	14.62	208.90	7,692.4	-739.3	-361.6	561,825.87	688,535.83	32° 32' 36.994 N	103° 51' 20.319 W
7,900.0	14.62	208.90	7,789.1	-761.4	-373.8	561,803.77	688,523.64	32° 32' 36.776 N	103° 51' 20.463 W
8,000.0	14.62	208.90	7,885.9	-783.5	-386.0	561,781.67	688,511.44	32° 32' 36.557 N	103° 51' 20.606 W
8,100.0	14.62	208.90	7,982.6	-805.6	-398.2	561,759.57	688,499.24	32° 32' 36.339 N	103° 51' 20.750 W
8,200.0	14.62	208.90	8,079.4	-827.7	-410.4	561,737.47	688,487.04	32° 32' 36.121 N	103° 51' 20.894 W
8,300.0	14.62	208.90	8,176.2	-849.8	-422.6	561,715.37	688,474.84	32° 32' 35.903 N	103° 51' 21.037 W
8,400.0	14.62	208.90	8,272.9	-871.9	-434.8	561,693.27	688,462.64	32° 32' 35.685 N	103° 51' 21.181 W
8,500.0	14.62	208.90	8,369.7	-894.0	-447.0	561,671.17	688,450.45	32° 32' 35.467 N	103° 51' 21.325 W
8,600.0	14.62	208.90	8,466.5	-916.1	-459.2	561,649.07	688,438.25	32° 32' 35.249 N	103° 51' 21.468 W
8,700.0	14.62	208.90	8,563.2	-938.2	-471.4	561,626.97	688,426.05	32° 32' 35.031 N	103° 51' 21.612 W
8,800.0	14.62	208.90	8,660.0	-960.3	-483.6	561,604.88	688,413.85	32° 32' 34.812 N	103° 51' 21.756 W
8,900.0	14.62	208.90	8,756.7	-982.4	-495.8	561,582.78	688,401.65	32° 32' 34.594 N	103° 51' 21.899 W
9,000.0	14.62	208.90	8,853.5	-1,004.5	-508.0	561,560.68	688,389.45	32° 32' 34.376 N	103° 51' 22.043 W

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Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy D15	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,071.5	14.62	208.90	8,922.7	-1,020.3	-516.7	561,544.88	688,380.73	32° 32' 34.220 N	103° 51' 22.146 W
Start DLS 10.00 TFO -118.35									
9,100.0	13.50	198.09	8,950.3	-1,026.6	-519.5	561,538.56	688,377.96	32° 32' 34.158 N	103° 51' 22.178 W
9,200.0	14.06	155.23	9,047.7	-1,048.8	-518.0	561,516.38	688,379.43	32° 32' 33.938 N	103° 51' 22.162 W
9,300.0	20.24	127.91	9,143.4	-1,070.5	-499.2	561,494.67	688,398.22	32° 32' 33.723 N	103° 51' 21.944 W
9,400.0	28.61	114.45	9,234.4	-1,091.1	-463.7	561,474.08	688,433.75	32° 32' 33.517 N	103° 51' 21.530 W
9,500.0	37.73	106.88	9,318.1	-1,109.9	-412.5	561,455.23	688,484.95	32° 32' 33.329 N	103° 51' 20.933 W
9,600.0	47.17	101.95	9,391.8	-1,126.5	-347.1	561,438.71	688,550.27	32° 32' 33.162 N	103° 51' 20.171 W
9,700.0	56.76	98.35	9,453.3	-1,140.2	-269.7	561,425.02	688,627.71	32° 32' 33.023 N	103° 51' 19.267 W
9,800.0	66.43	95.46	9,500.9	-1,150.6	-182.5	561,414.56	688,714.93	32° 32' 32.916 N	103° 51' 18.248 W
9,900.0	76.15	92.98	9,532.9	-1,157.5	-88.1	561,407.66	688,809.27	32° 32' 32.843 N	103° 51' 17.147 W
10,000.0	85.89	90.69	9,548.5	-1,160.6	10.5	561,404.53	688,907.87	32° 32' 32.808 N	103° 51' 15.995 W
10,042.1	90.00	89.76	9,550.0	-1,160.8	52.5	561,404.36	688,949.95	32° 32' 32.804 N	103° 51' 15.503 W
Start 12324.0 hold at 10042.1 MD									
10,100.0	90.00	89.76	9,550.0	-1,160.6	110.4	561,404.61	689,007.83	32° 32' 32.804 N	103° 51' 14.827 W
10,200.0	90.00	89.76	9,550.0	-1,160.1	210.4	561,405.03	689,107.83	32° 32' 32.804 N	103° 51' 13.659 W
10,300.0	90.00	89.76	9,550.0	-1,159.7	310.4	561,405.46	689,207.83	32° 32' 32.804 N	103° 51' 12.491 W
10,400.0	90.00	89.76	9,550.0	-1,159.3	410.4	561,405.88	689,307.83	32° 32' 32.804 N	103° 51' 11.322 W
10,500.0	90.00	89.76	9,550.0	-1,158.9	510.4	561,406.31	689,407.83	32° 32' 32.803 N	103° 51' 10.154 W
10,600.0	90.00	89.76	9,550.0	-1,158.4	610.4	561,406.74	689,507.83	32° 32' 32.803 N	103° 51' 8.986 W
10,700.0	90.00	89.76	9,550.0	-1,158.0	710.4	561,407.16	689,607.83	32° 32' 32.803 N	103° 51' 7.818 W
10,800.0	90.00	89.76	9,550.0	-1,157.6	810.4	561,407.59	689,707.83	32° 32' 32.803 N	103° 51' 6.649 W
10,900.0	90.00	89.76	9,550.0	-1,157.2	910.4	561,408.01	689,807.83	32° 32' 32.802 N	103° 51' 5.481 W
11,000.0	90.00	89.76	9,550.0	-1,156.7	1,010.4	561,408.44	689,907.83	32° 32' 32.802 N	103° 51' 4.313 W
11,100.0	90.00	89.76	9,550.0	-1,156.3	1,110.4	561,408.86	690,007.83	32° 32' 32.802 N	103° 51' 3.145 W
11,200.0	90.00	89.76	9,550.0	-1,155.9	1,210.4	561,409.29	690,107.82	32° 32' 32.801 N	103° 51' 1.977 W
11,300.0	90.00	89.76	9,550.0	-1,155.5	1,310.4	561,409.71	690,207.82	32° 32' 32.801 N	103° 51' 0.808 W
11,400.0	90.00	89.76	9,550.0	-1,155.0	1,410.4	561,410.14	690,307.82	32° 32' 32.801 N	103° 50' 59.640 W
11,500.0	90.00	89.76	9,550.0	-1,154.6	1,510.4	561,410.56	690,407.82	32° 32' 32.801 N	103° 50' 58.472 W
11,600.0	90.00	89.76	9,550.0	-1,154.2	1,610.4	561,410.99	690,507.82	32° 32' 32.800 N	103° 50' 57.304 W
11,700.0	90.00	89.76	9,550.0	-1,153.8	1,710.4	561,411.41	690,607.82	32° 32' 32.800 N	103° 50' 56.135 W
11,800.0	90.00	89.76	9,550.0	-1,153.3	1,810.4	561,411.84	690,707.82	32° 32' 32.800 N	103° 50' 54.967 W
11,900.0	90.00	89.76	9,550.0	-1,152.9	1,910.4	561,412.26	690,807.82	32° 32' 32.799 N	103° 50' 53.799 W
12,000.0	90.00	89.76	9,550.0	-1,152.5	2,010.4	561,412.69	690,907.82	32° 32' 32.799 N	103° 50' 52.631 W
12,100.0	90.00	89.76	9,550.0	-1,152.1	2,110.4	561,413.11	691,007.82	32° 32' 32.799 N	103° 50' 51.462 W
12,200.0	90.00	89.76	9,550.0	-1,151.6	2,210.4	561,413.54	691,107.82	32° 32' 32.799 N	103° 50' 50.294 W
12,300.0	90.00	89.76	9,550.0	-1,151.2	2,310.4	561,413.97	691,207.81	32° 32' 32.798 N	103° 50' 49.126 W
12,400.0	90.00	89.76	9,550.0	-1,150.8	2,410.4	561,414.39	691,307.81	32° 32' 32.798 N	103° 50' 47.958 W
12,500.0	90.00	89.76	9,550.0	-1,150.4	2,510.4	561,414.82	691,407.81	32° 32' 32.798 N	103° 50' 46.789 W
12,600.0	90.00	89.76	9,550.0	-1,149.9	2,610.4	561,415.24	691,507.81	32° 32' 32.797 N	103° 50' 45.621 W
12,700.0	90.00	89.76	9,550.0	-1,149.5	2,710.4	561,415.67	691,607.81	32° 32' 32.797 N	103° 50' 44.453 W
12,800.0	90.00	89.76	9,550.0	-1,149.1	2,810.4	561,416.09	691,707.81	32° 32' 32.797 N	103° 50' 43.285 W
12,900.0	90.00	89.76	9,550.0	-1,148.7	2,910.4	561,416.52	691,807.81	32° 32' 32.796 N	103° 50' 42.117 W
13,000.0	90.00	89.76	9,550.0	-1,148.2	3,010.4	561,416.94	691,907.81	32° 32' 32.796 N	103° 50' 40.948 W
13,100.0	90.00	89.76	9,550.0	-1,147.8	3,110.4	561,417.37	692,007.81	32° 32' 32.796 N	103° 50' 39.780 W
13,200.0	90.00	89.76	9,550.0	-1,147.4	3,210.4	561,417.79	692,107.81	32° 32' 32.795 N	103° 50' 38.612 W
13,300.0	90.00	89.76	9,550.0	-1,146.9	3,310.4	561,418.22	692,207.81	32° 32' 32.795 N	103° 50' 37.444 W
13,400.0	90.00	89.76	9,550.0	-1,146.5	3,410.4	561,418.64	692,307.80	32° 32' 32.795 N	103° 50' 36.275 W
13,500.0	90.00	89.76	9,550.0	-1,146.1	3,510.4	561,419.07	692,407.80	32° 32' 32.794 N	103° 50' 35.107 W
13,600.0	90.00	89.76	9,550.0	-1,145.7	3,610.4	561,419.49	692,507.80	32° 32' 32.794 N	103° 50' 33.939 W
13,700.0	90.00	89.76	9,550.0	-1,145.2	3,710.4	561,419.92	692,607.80	32° 32' 32.794 N	103° 50' 32.771 W

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Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy DI5	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,800.0	90.00	89.76	9,550.0	-1,144.8	3,810.4	561,420.35	692,707.80	32° 32' 32.793 N	103° 50' 31.602 W
13,900.0	90.00	89.76	9,550.0	-1,144.4	3,910.4	561,420.77	692,807.80	32° 32' 32.793 N	103° 50' 30.434 W
14,000.0	90.00	89.76	9,550.0	-1,144.0	4,010.4	561,421.20	692,907.80	32° 32' 32.793 N	103° 50' 29.266 W
14,100.0	90.00	89.76	9,550.0	-1,143.5	4,110.4	561,421.62	693,007.80	32° 32' 32.792 N	103° 50' 28.098 W
14,200.0	90.00	89.76	9,550.0	-1,143.1	4,210.4	561,422.05	693,107.80	32° 32' 32.792 N	103° 50' 26.929 W
14,300.0	90.00	89.76	9,550.0	-1,142.7	4,310.4	561,422.47	693,207.80	32° 32' 32.791 N	103° 50' 25.761 W
14,400.0	90.00	89.76	9,550.0	-1,142.3	4,410.4	561,422.90	693,307.80	32° 32' 32.791 N	103° 50' 24.593 W
14,500.0	90.00	89.76	9,550.0	-1,141.8	4,510.4	561,423.32	693,407.79	32° 32' 32.791 N	103° 50' 23.425 W
14,600.0	90.00	89.76	9,550.0	-1,141.4	4,610.4	561,423.75	693,507.79	32° 32' 32.790 N	103° 50' 22.257 W
14,700.0	90.00	89.76	9,550.0	-1,141.0	4,710.4	561,424.17	693,607.79	32° 32' 32.790 N	103° 50' 21.088 W
14,800.0	90.00	89.76	9,550.0	-1,140.6	4,810.4	561,424.60	693,707.79	32° 32' 32.790 N	103° 50' 19.920 W
14,900.0	90.00	89.76	9,550.0	-1,140.1	4,910.4	561,425.02	693,807.79	32° 32' 32.789 N	103° 50' 18.752 W
15,000.0	90.00	89.76	9,550.0	-1,139.7	5,010.4	561,425.45	693,907.79	32° 32' 32.789 N	103° 50' 17.584 W
15,100.0	90.00	89.76	9,550.0	-1,139.3	5,110.4	561,425.87	694,007.79	32° 32' 32.788 N	103° 50' 16.415 W
15,200.0	90.00	89.76	9,550.0	-1,138.9	5,210.4	561,426.30	694,107.79	32° 32' 32.788 N	103° 50' 15.247 W
15,300.0	90.00	89.76	9,550.0	-1,138.4	5,310.4	561,426.72	694,207.79	32° 32' 32.788 N	103° 50' 14.079 W
15,400.0	90.00	89.76	9,550.0	-1,138.0	5,410.4	561,427.15	694,307.79	32° 32' 32.787 N	103° 50' 12.911 W
15,500.0	90.00	89.76	9,550.0	-1,137.6	5,510.4	561,427.58	694,407.79	32° 32' 32.787 N	103° 50' 11.742 W
15,600.0	90.00	89.76	9,550.0	-1,137.2	5,610.4	561,428.00	694,507.78	32° 32' 32.786 N	103° 50' 10.574 W
15,700.0	90.00	89.76	9,550.0	-1,136.7	5,710.4	561,428.43	694,607.78	32° 32' 32.786 N	103° 50' 9.406 W
15,800.0	90.00	89.76	9,550.0	-1,136.3	5,810.4	561,428.85	694,707.78	32° 32' 32.786 N	103° 50' 8.238 W
15,900.0	90.00	89.76	9,550.0	-1,135.9	5,910.4	561,429.28	694,807.78	32° 32' 32.785 N	103° 50' 7.069 W
16,000.0	90.00	89.76	9,550.0	-1,135.5	6,010.4	561,429.70	694,907.78	32° 32' 32.785 N	103° 50' 5.901 W
16,100.0	90.00	89.76	9,550.0	-1,135.0	6,110.4	561,430.13	695,007.78	32° 32' 32.784 N	103° 50' 4.733 W
16,200.0	90.00	89.76	9,550.0	-1,134.6	6,210.4	561,430.55	695,107.78	32° 32' 32.784 N	103° 50' 3.565 W
16,300.0	90.00	89.76	9,550.0	-1,134.2	6,310.4	561,430.98	695,207.78	32° 32' 32.783 N	103° 50' 2.397 W
16,400.0	90.00	89.76	9,550.0	-1,133.8	6,410.4	561,431.40	695,307.78	32° 32' 32.783 N	103° 50' 1.228 W
16,500.0	90.00	89.76	9,550.0	-1,133.3	6,510.4	561,431.83	695,407.78	32° 32' 32.783 N	103° 50' 0.060 W
16,600.0	90.00	89.76	9,550.0	-1,132.9	6,610.4	561,432.25	695,507.78	32° 32' 32.782 N	103° 49' 58.892 W
16,700.0	90.00	89.76	9,550.0	-1,132.5	6,710.4	561,432.68	695,607.77	32° 32' 32.782 N	103° 49' 57.724 W
16,800.0	90.00	89.76	9,550.0	-1,132.1	6,810.4	561,433.10	695,707.77	32° 32' 32.781 N	103° 49' 56.555 W
16,900.0	90.00	89.76	9,550.0	-1,131.6	6,910.4	561,433.53	695,807.77	32° 32' 32.781 N	103° 49' 55.387 W
17,000.0	90.00	89.76	9,550.0	-1,131.2	7,010.4	561,433.96	695,907.77	32° 32' 32.780 N	103° 49' 54.219 W
17,100.0	90.00	89.76	9,550.0	-1,130.8	7,110.4	561,434.38	696,007.77	32° 32' 32.780 N	103° 49' 53.051 W
17,200.0	90.00	89.76	9,550.0	-1,130.4	7,210.4	561,434.81	696,107.77	32° 32' 32.779 N	103° 49' 51.882 W
17,300.0	90.00	89.76	9,550.0	-1,129.9	7,310.4	561,435.23	696,207.77	32° 32' 32.779 N	103° 49' 50.714 W
17,400.0	90.00	89.76	9,550.0	-1,129.5	7,410.3	561,435.66	696,307.77	32° 32' 32.779 N	103° 49' 49.546 W
17,500.0	90.00	89.76	9,550.0	-1,129.1	7,510.3	561,436.08	696,407.77	32° 32' 32.778 N	103° 49' 48.378 W
17,600.0	90.00	89.76	9,550.0	-1,128.7	7,610.3	561,436.51	696,507.77	32° 32' 32.778 N	103° 49' 47.210 W
17,700.0	90.00	89.76	9,550.0	-1,128.2	7,710.3	561,436.93	696,607.77	32° 32' 32.777 N	103° 49' 46.041 W
17,800.0	90.00	89.76	9,550.0	-1,127.8	7,810.3	561,437.36	696,707.76	32° 32' 32.777 N	103° 49' 44.873 W
17,900.0	90.00	89.76	9,550.0	-1,127.4	7,910.3	561,437.78	696,807.76	32° 32' 32.776 N	103° 49' 43.705 W
18,000.0	90.00	89.76	9,550.0	-1,127.0	8,010.3	561,438.21	696,907.76	32° 32' 32.776 N	103° 49' 42.537 W
18,100.0	90.00	89.76	9,550.0	-1,126.5	8,110.3	561,438.63	697,007.76	32° 32' 32.775 N	103° 49' 41.368 W
18,200.0	90.00	89.76	9,550.0	-1,126.1	8,210.3	561,439.06	697,107.76	32° 32' 32.775 N	103° 49' 40.200 W
18,300.0	90.00	89.76	9,550.0	-1,125.7	8,310.3	561,439.48	697,207.76	32° 32' 32.774 N	103° 49' 39.032 W
18,400.0	90.00	89.76	9,550.0	-1,125.3	8,410.3	561,439.91	697,307.76	32° 32' 32.774 N	103° 49' 37.864 W
18,500.0	90.00	89.76	9,550.0	-1,124.8	8,510.3	561,440.33	697,407.76	32° 32' 32.773 N	103° 49' 36.695 W
18,600.0	90.00	89.76	9,550.0	-1,124.4	8,610.3	561,440.76	697,507.76	32° 32' 32.773 N	103° 49' 35.527 W
18,700.0	90.00	89.76	9,550.0	-1,124.0	8,710.3	561,441.19	697,607.76	32° 32' 32.772 N	103° 49' 34.359 W
18,800.0	90.00	89.76	9,550.0	-1,123.6	8,810.3	561,441.61	697,707.76	32° 32' 32.772 N	103° 49' 33.191 W
18,900.0	90.00	89.76	9,550.0	-1,123.1	8,910.3	561,442.04	697,807.75	32° 32' 32.771 N	103° 49' 32.023 W

Halliburton

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy D15	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
19,000.0	90.00	89.76	9,550.0	-1,122.7	9,010.3	561,442.46	697,907.75	32° 32' 32.771 N	103° 49' 30.854 W
19,100.0	90.00	89.76	9,550.0	-1,122.3	9,110.3	561,442.89	698,007.75	32° 32' 32.770 N	103° 49' 29.686 W
19,200.0	90.00	89.76	9,550.0	-1,121.9	9,210.3	561,443.31	698,107.75	32° 32' 32.770 N	103° 49' 28.518 W
19,300.0	90.00	89.76	9,550.0	-1,121.4	9,310.3	561,443.74	698,207.75	32° 32' 32.769 N	103° 49' 27.350 W
19,400.0	90.00	89.76	9,550.0	-1,121.0	9,410.3	561,444.16	698,307.75	32° 32' 32.769 N	103° 49' 26.181 W
19,500.0	90.00	89.76	9,550.0	-1,120.6	9,510.3	561,444.59	698,407.75	32° 32' 32.768 N	103° 49' 25.013 W
19,600.0	90.00	89.76	9,550.0	-1,120.2	9,610.3	561,445.01	698,507.75	32° 32' 32.768 N	103° 49' 23.845 W
19,700.0	90.00	89.76	9,550.0	-1,119.7	9,710.3	561,445.44	698,607.75	32° 32' 32.767 N	103° 49' 22.677 W
19,800.0	90.00	89.76	9,550.0	-1,119.3	9,810.3	561,445.86	698,707.75	32° 32' 32.767 N	103° 49' 21.508 W
19,900.0	90.00	89.76	9,550.0	-1,118.9	9,910.3	561,446.29	698,807.75	32° 32' 32.766 N	103° 49' 20.340 W
20,000.0	90.00	89.76	9,550.0	-1,118.5	10,010.3	561,446.71	698,907.74	32° 32' 32.765 N	103° 49' 19.172 W
20,100.0	90.00	89.76	9,550.0	-1,118.0	10,110.3	561,447.14	699,007.74	32° 32' 32.765 N	103° 49' 18.004 W
20,200.0	90.00	89.76	9,550.0	-1,117.6	10,210.3	561,447.56	699,107.74	32° 32' 32.764 N	103° 49' 16.835 W
20,300.0	90.00	89.76	9,550.0	-1,117.2	10,310.3	561,447.99	699,207.74	32° 32' 32.764 N	103° 49' 15.667 W
20,400.0	90.00	89.76	9,550.0	-1,116.8	10,410.3	561,448.42	699,307.74	32° 32' 32.763 N	103° 49' 14.499 W
20,500.0	90.00	89.76	9,550.0	-1,116.3	10,510.3	561,448.84	699,407.74	32° 32' 32.763 N	103° 49' 13.331 W
20,600.0	90.00	89.76	9,550.0	-1,115.9	10,610.3	561,449.27	699,507.74	32° 32' 32.762 N	103° 49' 12.163 W
20,700.0	90.00	89.76	9,550.0	-1,115.5	10,710.3	561,449.69	699,607.74	32° 32' 32.762 N	103° 49' 10.994 W
20,800.0	90.00	89.76	9,550.0	-1,115.1	10,810.3	561,450.12	699,707.74	32° 32' 32.761 N	103° 49' 9.826 W
20,900.0	90.00	89.76	9,550.0	-1,114.6	10,910.3	561,450.54	699,807.74	32° 32' 32.760 N	103° 49' 8.658 W
21,000.0	90.00	89.76	9,550.0	-1,114.2	11,010.3	561,450.97	699,907.74	32° 32' 32.760 N	103° 49' 7.490 W
21,100.0	90.00	89.76	9,550.0	-1,113.8	11,110.3	561,451.39	700,007.73	32° 32' 32.759 N	103° 49' 6.321 W
21,200.0	90.00	89.76	9,550.0	-1,113.3	11,210.3	561,451.82	700,107.73	32° 32' 32.759 N	103° 49' 5.153 W
21,300.0	90.00	89.76	9,550.0	-1,112.9	11,310.3	561,452.24	700,207.73	32° 32' 32.758 N	103° 49' 3.985 W
21,400.0	90.00	89.76	9,550.0	-1,112.5	11,410.3	561,452.67	700,307.73	32° 32' 32.758 N	103° 49' 2.817 W
21,500.0	90.00	89.76	9,550.0	-1,112.1	11,510.3	561,453.09	700,407.73	32° 32' 32.757 N	103° 49' 1.648 W
22,366.1	90.00	89.76	9,550.0	-1,108.4	12,376.4	561,456.76	701,273.82	32° 32' 32.752 N	103° 48' 51.531 W
TD at 22366.1									

Design Targets									
Target Name		Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	
- hit/miss target									Latitude
- Shape									Longitude
FTP 16-1		90.00	323.33	9,550.0	-1,160.8	52.5	561,404.36	688,949.95	32° 32' 32.804 N
- plan hits target center									103° 51' 15.503 W
- Rectangle (sides W200.0 H50.0 D0.0)									
BHL 16-1		90.00	274.51	9,550.0	-1,108.4	12,376.4	561,456.76	701,273.82	32° 32' 32.752 N
- plan hits target center									103° 48' 51.531 W
- Rectangle (sides W200.0 H50.0 D0.0)									

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

Halliburton

Planning Report - Geographic

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well BEU 5E HAN SOLO 104H - Slot BEU 5E HAN SOLO 104H
Company:	Delaware Basin Asset	TVD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Project:	New Mexico, XTO	MD Reference:	BEU 5E HAN SOLO 104H Default @ 3555.0usft
Site:	Big Eddy DI5	North Reference:	Grid
Well:	BEU 5E HAN SOLO 104H	Survey Calculation Method:	Minimum Curvature
Wellbore:	BEU 5E HAN SOLO 104H		
Design:	BEU 5E HAN SOLO 104H		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700.0	2,700.0	0.0	0.0	Start Build 2.00
2,950.0	2,949.7	1.9	10.7	Start 350.0 hold at 2950.0 MD
3,300.0	3,298.4	7.2	40.8	Start Drop -2.00
3,550.0	3,548.0	9.1	51.5	Start 500.0 hold at 3550.0 MD
4,050.0	4,048.0	9.1	51.5	Start Build 2.00
4,781.0	4,771.2	-72.1	6.7	Start 4290.5 hold at 4781.0 MD
9,071.5	8,922.7	-1,020.3	-516.7	Start DLS 10.00 TFO -118.35
10,042.1	9,550.0	-1,160.8	52.5	Start 12324.0 hold at 10042.1 MD
22,366.1	9,550.0	-1,108.4	12,376.4	TD at 22366.1

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 nipped 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.