

Well Name: SHADY PINES 24-36 STATE FED COM	Well Location: T26S / R29E / SEC 24 / SWSE /	County or Parish/State:
Well Number: 71H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM017225A	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001550011	Well Status: Approved Application for Permit to Drill	Operator: XTO ENERGY INCORPORATED

Notice of Intent

Sundry ID: 2694767

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 09/26/2022

Time Sundry Submitted: 02:04

Date proposed operation will begin: 10/14/2022

Procedure Description: ** Well Name Change, Pool Change, Bottom Hole Location Change, First and Last Take Point Changes and Casing/Cement Changes XTO Energy, Inc. requests permission to make the following changes to the original APD: Well Name from Change Shady Pines 24-36 to Shady Pines State Fed Com. Well Pool Change from Wildcat; Bone Spring to Purple Sage; Wolfcamp No Additional Surface Disturbance. Change BHL from 50’FSL & 2090’FEL to 50’FSL & 2280’FEL, Section 36-T26S-R29E Change FTP fr/100’FNL & 2090’FEL to 330’FNL & 1860’FEL Change LTP fr/100’FSL & 2090’FEL to 330’FSL & 2263’FEL Casing/Cement changes per the attached drilling program. Attachments: C102 Drilling Program Directional Plan Multibowl Diagram

NOI Attachments

Procedure Description

Shady_Pines_24_36_State_Fed_Com_71H_Attachments_20220926140207.pdf

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Conditions of Approval

Additional

Sundry_2694767_Shady_Pines_24_36_State_Fed_Com_071H_COAs_20221014073319.pdf

Operator

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JESSICA DOOLING	Signed on: SEP 26, 2022 02:03 PM
Name: XTO ENERGY INCORPORATED	
Title: Lead Regulatory Coordinator	
Street Address: 6401 HOLIDAY HILL ROAD BLDG 5	
City: MIDLAND	State: TX
Phone: (970) 769-6048	
Email address: JESSICA.DOOLING@EXXONMOBIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 10/17/2022
Signature: Chris Walls	

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
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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 30-015- 50011	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp
⁴ Property Code	⁵ Property Name SHADY PINES 24-36 STATE FED COM	
⁷ OGRID No. 005380	⁸ Operator Name XTO ENERGY, INC.	⁶ Well Number 71H
		⁹ Elevation 2,977'

¹⁰ Surface Location

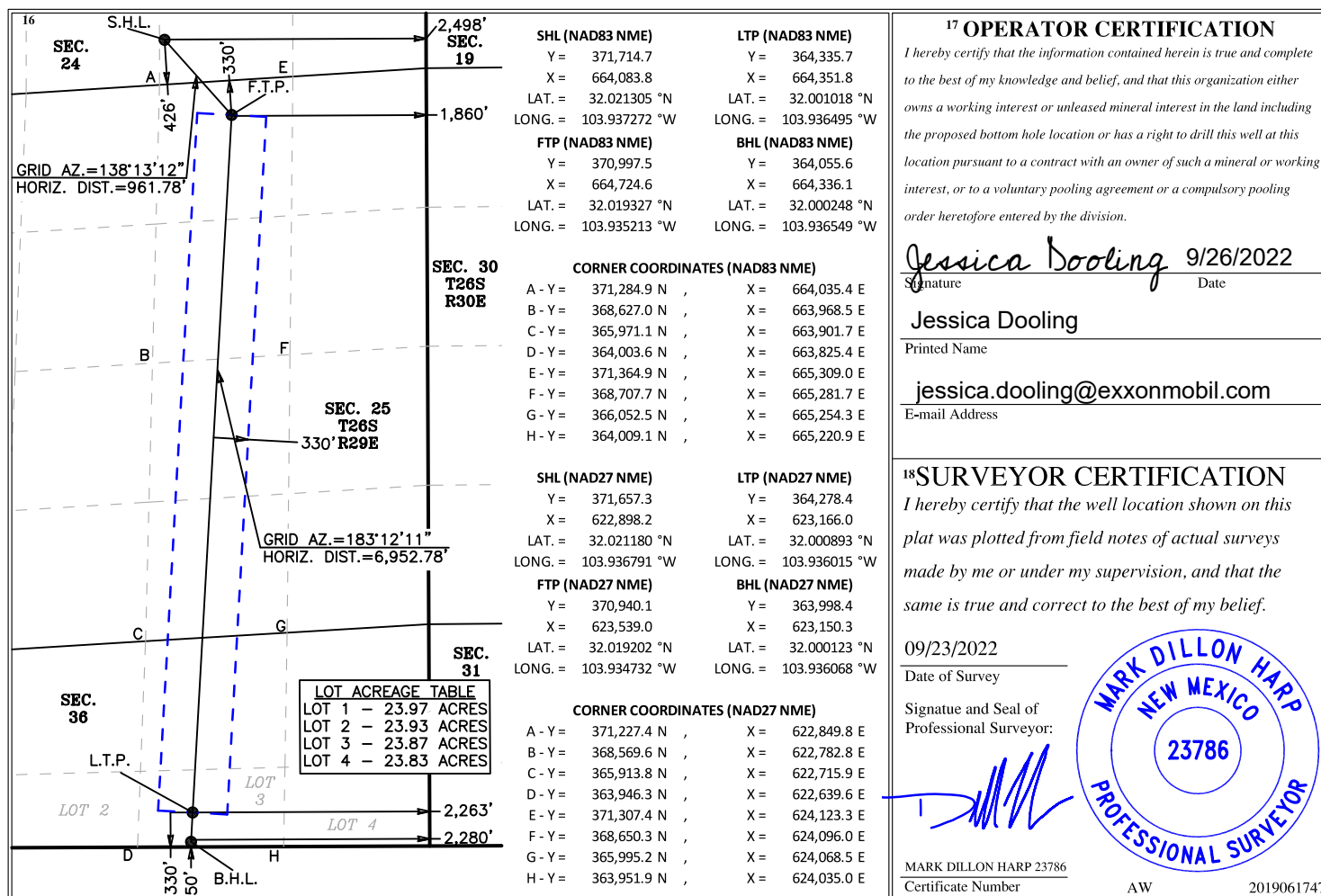
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	24	26 S	29 E		426	SOUTH	2,498	EAST	EDDY

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
3	36	26 S	29 E		50	SOUTH	2,280	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
447.7			

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.



DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
Shady Pines 24-36 State Fed Com 71H
Projected TD: 17384' MD / 10502' TVD
SHL: 426' FSL & 2498' FEL , Section 24, T26S, R29E
BHL: 50' FSL & 2280' FEL , Section 36, T26S, R29E
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	879'	Water
Top of Salt	1369'	Water
Base of Salt	2998'	Water
Delaware	3171'	Water
Brushy Canyon	5352'	Water/Oil/Gas
Bone Spring	6924'	Water
1st Bone Spring Ss	7892'	Water/Oil/Gas
2nd Bone Spring Ss	8683'	Water/Oil/Gas
3rd Bone Spring Sh	9354'	Water/Oil/Gas
Wolfcamp	10124'	Water/Oil/Gas
Wolfcamp X	10149'	Water/Oil/Gas
Wolfcamp Y	10227'	Water/Oil/Gas
Wolfcamp A	10252'	Water/Oil/Gas
Target/Land Curve	10502'	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 13.375 inch casing @ 1344' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3098' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9600' and cementing to surface. A 6.75 inch curve and 6.75 inch lateral hole will be drilled to 17384 MD/TD and 5.5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9100 feet).

3. Casing Design

Hole Size	MD	TVD	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' – 1344'	1344'	13.375	54.5	J-55	BTC	New	3.11	1.95	11.65
12.25	0' – 3098'	3096'	9.625	40	J-55	BTC	New	1.45	2.87	5.08
8.75	0' – 3198'	3195'	7.625	29.7	RY P-110	Flush Joint	New	2.23	3.32	1.96
8.75	3198' – 9600'	9568'	7.625	29.7	HC L-80	Flush Joint	New	1.62	2.78	2.14
6.75	0' – 9500'	9468'	5.5	20	RY P-110	Semi-Premium	New	1.05	1.87	2.43
6.75	9500' - 17384'	10502'	5.5	20	RY P-110	Semi-Flush	New	1.05	1.69	6.76

· Production casing meets the clearance requirements as tapered string crosses over before encountering the intermediate shoe, per Onshore Order 2.3.B.1

· XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface and intermediate 1 casing per this Sundry

· XTO requests to not utilize centralizers in the curve and lateral

· 9.625 Collapse analyzed using 50% evacuation based on regional experience.

· 7.625 Collapse analyzed using 50% evacuation based on regional experience.

· 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

· Test on 5M annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less

· XTO requests the option to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M 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 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 1344'

Lead: 770 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 250 psi 24 hr = 500 psi

Due to the high probability of not getting cement to surface during conventional top-out jobs in the area, ~10-20 ppb gravel will be added on the backside using 1" pipe to get cement to surface, if required.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3098'

Lead: 1260 sxs Class C (mixed at 12.9 ppg, 1.39 ft³/sx, 10.13 gal/sx water)
 Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 Top of Cement: Surface
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9600'

1st Stage

Optional Lead: 130 sxs Class C (mixed at 10.5 ppg, 2.77 ft³/sx, 15.59 gal/sx water)
 TOC: 2898
 Tail: 390 sxs Class C (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)
 TOC: Brushy Canyon @ 5352
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft³/sx, 9.61 gal/sx water)
 Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Top of Cement: 0
 Compressives: 12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (5352') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5.5, 20 New Semi-Flush, RY P-110 casing to be set at +/- 17384'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft³/sx, 15.00 gal/sx water) Top of Cement: 9100 feet
 Tail: 540 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft³/sx, 8.38 gal/sx water) Top of Cement: 9818 feet
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with no pressure on the csg annulus, as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4243 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. When nipping up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nipping up on the 7.625, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M 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.

XTO requests a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

A variance is requested to **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 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

A variance is requested to cement offline for the surface and intermediate casing strings according to attached offline cementing supporting documentation.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1344'	17.5	FW/Native	8.3-8.8	35-40	NC
1344' - 3098'	12.25	Brine	9.7-10.2	30-32	NC
3098' - 9600'	8.75	BDE/OBM or FW/Brine	9.7-10.2	30-32	NC
9600' - 17384'	6.75	OBM	12-12.5	50-60	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 13-3/8" surface casing with brine solution. A 10.0 ppg -10.5 ppg 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.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 6553 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after BLM approval. Move in operations and drilling is expected to take 40 days.

COMPANY Delaware Basin Asset (Plans)
FIELD Eddy County
SITE Shady Pines
WELL 71H
WELLPATH OH
DESIGN Plan 1
DEPTHUNT (ft)

WELL INFO

MAP DATUM NAD 1927
(NADCON
CONUS)
US State
Plane 1927
(Exact
solution)
MAP SYSTEM New Mexico East 3001
MAP ZONE 32.02118
WELL LAT -103.936791
WELL LON 622898.2
WELL EW MAP 371657.3
WELL NS MAP 0.21
CONVERGENCE IGRF2020
MAGMODEL 6.56
DECLINATION Grid
NORTH REF 2977
GROUND ELEVN 3010
KB ELEVN 176.7
VS AZI

SURVEY TYPE INFORMATION

H 0.00 - 17383.56 PLAN 1 : XOMR2_OWSG MWD+IFR1+MS

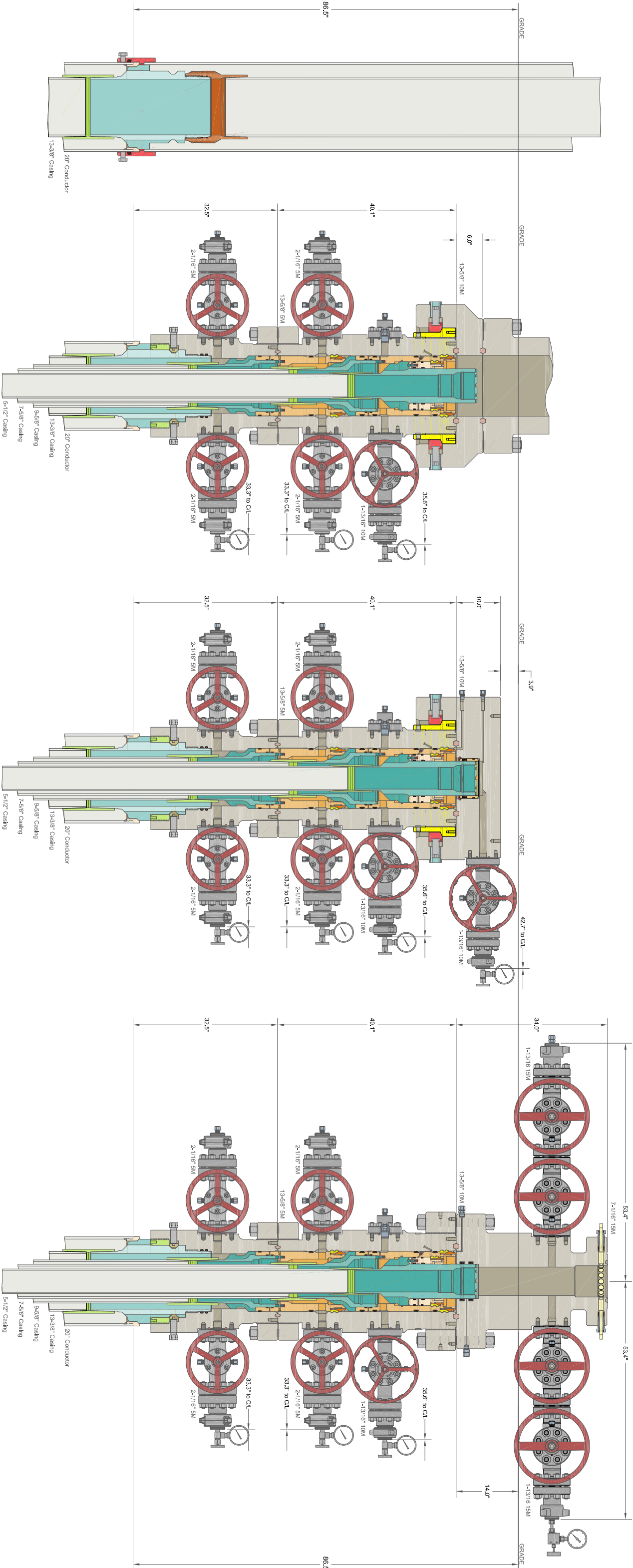
SURVEY LIST

Measured Depth MD	Inclination INC	Azimuth AZI	Course Length CL	True Vertical				Local N/-S NS	Local E/-W EW	Easting X	Northing Y	Latitude LAT	Longitude LON	Dogleg Severity DLS	Build Rate BLD	Turn Rate TRN	Vertical Section VS
				Depth(TVD) TVD	SubSea TVD SSTVD												
0	0.00	0.00	0.00	0	0	3010		0	0	622898.2	371657.3	32.02118	-103.936791	0	0	0	0
2000	0.00	0.00	0.00	2000	2000	1010		0	0	622898.2	371657.3	32.02118	-103.936791	0	0	0	0
2100	2.00	140.75	100	2099.98	910.02	-1.351	1.104	622899.304	371655.949	32.021176	-103.936787	2	2	2	2	0	1.413
2200	4.00	140.75	100	2199.838	810.162	-5.404	4.415	622902.615	371651.896	32.021165	-103.936777	2	2	2	2	0	5.649
2284	5.69	140.75	84.314	2283.848	726.152	-10.916	8.919	622907.119	371646.384	32.02115	-103.936762	2	2	2	2	0	11.412
2300	5.69	140.75	15.686	2299.456	710.544	-12.12	9.903	622908.103	371645.18	32.021147	-103.936759	0	0	0	0	0	12.67
2400	5.69	140.75	100	2398.964	611.036	-19.792	16.172	622914.372	371637.508	32.021126	-103.936739	0	0	0	0	0	20.691
2500	5.69	140.75	100	2498.472	511.528	-27.465	22.441	622920.641	371629.835	32.021104	-103.936719	0	0	0	0	0	28.712
2600	5.69	140.75	100	2597.98	412.02	-35.138	28.71	622926.91	371622.162	32.021083	-103.936699	0	0	0	0	0	36.733
2700	5.69	140.75	100	2697.488	312.512	-42.81	34.979	622933.179	371614.49	32.021062	-103.936679	0	0	0	0	0	44.754
2800	5.69	140.75	100	2796.996	213.004	-50.483	41.248	622939.448	371606.817	32.021041	-103.936658	0	0	0	0	0	52.775
2900	5.69	140.75	100	2896.504	113.496	-58.156	47.517	622945.717	371599.144	32.02102	-103.936638	0	0	0	0	0	60.796
3000	5.69	140.75	100	2996.012	13.988	-65.828	53.787	622951.987	371591.472	32.020999	-103.936618	0	0	0	0	0	68.817
3100	5.69	140.75	100	3095.52	-85.52	-73.501	60.056	622958.256	371583.799	32.020977	-103.936598	0	0	0	0	0	76.839
3200	5.69	140.75	100	3195.028	-185.028	-81.173	66.325	622964.525	371576.127	32.020956	-103.936578	0	0	0	0	0	84.86
3300	5.69	140.75	100	3294.536	-284.536	-88.846	72.594	622970.794	371568.454	32.020935	-103.936558	0	0	0	0	0	92.881

3400	5.69	140.75	100	3394.044	-384.044	-96.519	78.863	622977.063	371560.781	32.020914	-103.936538	0	0	0	100.902
3500	5.69	140.75	100	3493.552	-483.552	-104.191	85.132	622983.332	371553.109	32.020893	-103.936517	0	0	0	108.923
3600	5.69	140.75	100	3593.059	-583.059	-111.864	91.401	622989.601	371545.436	32.020872	-103.936497	0	0	0	116.944
3700	5.69	140.75	100	3692.567	-682.567	-119.537	97.671	622995.871	371537.763	32.020851	-103.936477	0	0	0	124.965
3800	5.69	140.75	100	3792.075	-782.075	-127.209	103.94	623002.14	371530.091	32.020829	-103.936457	0	0	0	132.986
3900	5.69	140.75	100	3891.583	-881.583	-134.882	110.209	623008.409	371522.418	32.020808	-103.936437	0	0	0	141.007
4000	5.69	140.75	100	3991.091	-981.091	-142.555	116.478	623014.678	371514.745	32.020787	-103.936417	0	0	0	149.028
4100	5.69	140.75	100	4090.599	-1080.599	-150.227	122.747	623020.947	371507.073	32.020766	-103.936397	0	0	0	157.049
4200	5.69	140.75	100	4190.107	-1180.107	-157.9	129.016	623027.216	371499.4	32.020745	-103.936377	0	0	0	165.07
4300	5.69	140.75	100	4289.615	-1279.615	-165.573	135.285	623033.485	371491.727	32.020724	-103.936356	0	0	0	173.091
4400	5.69	140.75	100	4389.123	-1379.123	-173.245	141.554	623039.754	371484.055	32.020702	-103.936336	0	0	0	181.112
4500	5.69	140.75	100	4488.631	-1478.631	-180.918	147.824	623046.024	371476.382	32.020681	-103.936316	0	0	0	189.133
4600	5.69	140.75	100	4588.139	-1578.139	-188.59	154.093	623052.293	371468.71	32.02066	-103.936296	0	0	0	197.155
4700	5.69	140.75	100	4687.647	-1677.647	-196.263	160.362	623058.562	371461.037	32.020639	-103.936276	0	0	0	205.176
4800	5.69	140.75	100	4787.155	-1777.155	-203.936	166.631	623064.831	371453.364	32.020618	-103.936256	0	0	0	213.197
4900	5.69	140.75	100	4886.663	-1876.663	-211.608	172.9	623071.1	371445.692	32.020597	-103.936236	0	0	0	221.218
5000	5.69	140.75	100	4986.17	-1976.17	-219.281	179.169	623077.369	371438.019	32.020576	-103.936215	0	0	0	229.239
5100	5.69	140.75	100	5085.678	-2075.678	-226.954	185.438	623083.638	371430.346	32.020554	-103.936195	0	0	0	237.26
5200	5.69	140.75	100	5185.186	-2175.186	-234.626	191.707	623089.907	371422.674	32.020533	-103.936175	0	0	0	245.281
5300	5.69	140.75	100	5284.694	-2274.694	-242.299	197.977	623096.177	371415.001	32.020512	-103.936155	0	0	0	253.302
5400	5.69	140.75	100	5384.202	-2374.202	-249.972	204.246	623102.446	371407.328	32.020491	-103.936135	0	0	0	261.323
5500	5.69	140.75	100	5483.71	-2473.71	-257.644	210.515	623108.715	371399.656	32.02047	-103.936115	0	0	0	269.344
5600	5.69	140.75	100	5583.218	-2573.218	-265.317	216.784	623114.984	371391.983	32.020449	-103.936095	0	0	0	277.365
5700	5.69	140.75	100	5682.726	-2672.726	-272.99	223.053	623121.253	371384.31	32.020427	-103.936074	0	0	0	285.386
5800	5.69	140.75	100	5782.234	-2772.234	-280.662	229.322	623127.522	371376.638	32.020406	-103.936054	0	0	0	293.407
5900	5.69	140.75	100	5881.742	-2871.742	-288.335	235.591	623133.791	371368.965	32.020385	-103.936034	0	0	0	301.428
6000	5.69	140.75	100	5981.25	-2971.25	-296.008	241.861	623140.061	371361.292	32.020364	-103.936014	0	0	0	309.449
6100	5.69	140.75	100	6080.758	-3070.758	-303.68	248.13	623146.33	371353.62	32.020343	-103.935994	0	0	0	317.47
6200	5.69	140.75	100	6180.266	-3170.266	-311.353	254.399	623152.599	371345.947	32.020322	-103.935974	0	0	0	325.492
6300	5.69	140.75	100	6279.774	-3269.774	-319.025	260.668	623158.868	371338.275	32.020301	-103.935954	0	0	0	333.513
6400	5.69	140.75	100	6379.282	-3369.282	-326.698	266.937	623165.137	371330.602	32.020279	-103.935934	0	0	0	341.534
6500	5.69	140.75	100	6478.789	-3468.789	-334.371	273.206	623171.406	371322.929	32.020258	-103.935913	0	0	0	349.555
6600	5.69	140.75	100	6578.297	-3568.297	-342.043	279.475	623177.675	371315.257	32.020237	-103.935893	0	0	0	357.576
6700	5.69	140.75	100	6677.805	-3667.805	-349.716	285.744	623183.944	371307.584	32.020216	-103.935873	0	0	0	365.597
6800	5.69	140.75	100	6777.313	-3767.313	-357.389	292.014	623190.214	371299.911	32.020195	-103.935853	0	0	0	373.618
6900	5.69	140.75	100	6876.821	-3866.821	-365.061	298.283	623196.483	371292.239	32.020174	-103.935833	0	0	0	381.639
7000	5.69	140.75	100	6976.329	-3966.329	-372.734	304.552	623202.752	371284.566	32.020152	-103.935813	0	0	0	389.66
7100	5.69	140.75	100	7075.837	-4065.837	-380.407	310.821	623209.021	371276.893	32.020131	-103.935793	0	0	0	397.681
7200	5.69	140.75	100	7175.345	-4165.345	-388.079	317.09	623215.29	371269.221	32.02011	-103.935772	0	0	0	405.702
7300	5.69	140.75	100	7274.853	-4264.853	-395.752	323.359	623221.559	371261.548	32.020089	-103.935752	0	0	0	413.723
7400	5.69	140.75	100	7374.361	-4364.361	-403.425	329.628	623227.828	371253.875	32.020068	-103.935732	0	0	0	421.744
7500	5.69	140.75	100	7473.869	-4463.869	-411.097	335.897	623234.097	371246.203	32.020047	-103.935712	0	0	0	429.765
7600	5.69	140.75	100	7573.377	-4563.377	-418.77	342.167	623240.367	371238.53	32.020025	-103.935692	0	0	0	437.786
7700	5.69	140.75	100	7672.885	-4662.885	-426.442	348.436	623246.636	371230.858	32.020004	-103.935672	0	0	0	445.807
7800	5.69	140.75	100	7772.393	-4762.393	-434.115	354.705	623252.905	371223.185	32.019983	-103.935652	0	0	0	453.829
7900	5.69	140.75	100	7871.901	-4861.901	-441.788	360.974	623259.174	371215.512	32.019962	-103.935631	0	0	0	461.85
8000	5.69	140.75	100	7971.408	-4961.408	-449.46	367.243	623265.443	371207.84	32.019941	-103.935611	0	0	0	469.871
8100	5.69	140.75	100	8070.916	-5060.916	-457.133	373.512	623271.712	371200.167	32.01992	-103.935591	0	0	0	477.892
8200	5.69	140.75	100	8170.424	-5160.424	-464.806	379.781	623277.981	371192.494	32.019899	-103.935571	0	0	0	485.913
8300	5.69	140.75	100	8269.932	-5259.932	-472.478	386.05	623284.25	371184.822	32.019877	-103.935551	0	0	0	493.934
8400	5.69	140.75	100	8369.44	-5359.44	-480.151	392.32	623290.52	371177.149	32.019856	-103.935531	0	0	0	501.955
8500	5.69	140.75	100	8468.948	-5458.948	-487.824	398.589	623296.789	371169.476	32.019835	-103.935511	0	0	0	509.976
8533	5.69	140.75	33.369	8502.152	-5492.152	-490.384	400.681	623298.881	371166.916	32.019828	-103.935504	0	0	0	512.652

8600	4.35	140.75	66.631	8568.527	-5558.527	-494.899	404.37	623302.57	371162.401	32.019816	-103.935492	2	-2	0	517.372
8700	2.35	140.75	100	8668.35	-5658.35	-499.428	408.071	623306.271	371157.872	32.019803	-103.93548	2	-2	0	522.108
8800	0.35	140.75	100	8768.317	-5758.317	-501.258	409.565	623307.765	371156.042	32.019798	-103.935475	2	-2	0	524.02
8818	0.00	0.00	17.683	8786	-5776	-501.3	409.6	623307.8	371156	32.019798	-103.935475	2	-2	0	524.064
8900	0.00	0.00	82.317	8868.317	-5858.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9000	0.00	0.00	100	8968.317	-5958.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9100	0.00	0.00	100	9068.317	-6058.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9200	0.00	0.00	100	9168.317	-6158.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9300	0.00	0.00	100	9268.317	-6258.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9400	0.00	0.00	100	9368.317	-6358.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9500	0.00	0.00	100	9468.317	-6458.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9600	0.00	0.00	100	9568.317	-6558.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9700	0.00	0.00	100	9668.317	-6658.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9800	0.00	0.00	100	9768.317	-6758.317	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9818	0.00	0.00	17.683	9786	-6776	-501.3	409.6	623307.8	371156	32.019798	-103.935475	0	0	0	524.064
9850	2.59	179.74	32.317	9818.306	-6808.306	-502.029	409.603	623307.803	371155.271	32.019796	-103.935475	8	8	0	524.792
9900	6.59	179.74	50	9868.136	-6858.136	-506.025	409.621	623307.821	371151.275	32.019785	-103.935475	8	8	0	528.783
9950	10.59	179.74	50	9917.566	-6907.566	-513.488	409.655	623307.855	371143.812	32.019764	-103.935475	8	8	0	536.235
10000	14.59	179.74	50	9966.355	-6956.355	-524.38	409.704	623307.904	371132.92	32.019734	-103.935475	8	8	0	547.112
10050	18.59	179.74	50	10014.265	-7004.265	-538.65	409.769	623307.969	371118.65	32.019695	-103.935475	8	8	0	561.362
10100	22.59	179.74	50	10061.063	-7051.063	-556.226	409.848	623308.048	371101.074	32.019647	-103.935475	8	8	0	578.913
10150	26.59	179.74	50	10106.521	-7096.521	-577.024	409.942	623308.142	371080.276	32.01959	-103.935475	8	8	0	599.682
10200	30.59	179.74	50	10150.417	-7140.417	-600.942	410.05	623308.25	371056.358	32.019524	-103.935475	8	8	0	623.567
10250	34.59	179.74	50	10192.538	-7182.538	-627.864	410.172	623308.372	371029.436	32.01945	-103.935475	8	8	0	650.451
10300	38.59	179.74	50	10232.678	-7222.678	-657.659	410.306	623308.506	370999.641	32.019368	-103.935475	8	8	0	680.204
10350	42.59	179.74	50	10270.642	-7260.642	-690.181	410.453	623308.653	370967.119	32.019279	-103.935475	8	8	0	712.681
10400	46.59	179.74	50	10306.245	-7296.245	-725.272	410.612	623308.812	370932.028	32.019182	-103.935475	8	8	0	747.723
10450	50.59	179.74	50	10339.314	-7329.314	-762.761	410.781	623308.981	370894.539	32.019079	-103.935475	8	8	0	785.159
10500	54.59	179.74	50	10369.686	-7359.686	-802.466	410.96	623309.16	370854.834	32.01897	-103.935474	8	8	0	824.808
10550	58.59	179.74	50	10397.216	-7387.216	-844.192	411.149	623309.349	370813.108	32.018855	-103.935474	8	8	0	866.476
10600	62.59	179.74	50	10421.767	-7411.767	-887.737	411.345	623309.545	370769.563	32.018736	-103.935474	8	8	0	909.96
10650	66.59	179.74	50	10443.221	-7433.221	-932.889	411.549	623309.749	370724.411	32.018611	-103.935474	8	8	0	955.049
10700	70.59	179.74	50	10461.473	-7451.473	-979.427	411.76	623309.96	370677.873	32.018484	-103.935474	8	8	0	1001.522
10750	74.59	179.74	50	10476.434	-7466.434	-1027.125	411.975	623310.175	370630.175	32.018352	-103.935474	8	8	0	1049.153
10800	78.59	179.74	50	10488.031	-7478.031	-1075.751	412.195	623310.395	370581.549	32.018219	-103.935474	8	8	0	1097.71
10850	82.59	179.74	50	10496.209	-7486.209	-1125.067	412.417	623310.617	370532.233	32.018083	-103.935474	8	8	0	1146.957
10900	86.59	179.74	50	10500.926	-7490.926	-1174.833	412.642	623310.842	370482.467	32.017946	-103.935473	8	8	0	1196.654
10943	90.00	179.74	42.705	10502.197	-7492.197	-1217.512	412.835	623311.035	370439.788	32.017829	-103.935473	8	8	0	1239.273
11000	90.00	179.74	57.295	10502.195	-7492.195	-1274.807	413.094	623311.294	370382.493	32.017672	-103.935473	0	0	0	1296.488
11100	90.00	179.74	100	10502.192	-7492.192	-1374.806	413.545	623311.745	370282.494	32.017397	-103.935473	0	0	0	1396.347
11200	90.00	179.74	100	10502.189	-7492.189	-1474.805	413.997	623312.197	370182.495	32.017122	-103.935473	0	0	0	1496.206
11300	90.00	179.74	100	10502.186	-7492.186	-1574.804	414.449	623312.649	370082.496	32.016847	-103.935472	0	0	0	1596.064
11400	90.00	179.74	100	10502.183	-7492.183	-1674.803	414.9	623313.1	369982.497	32.016572	-103.935472	0	0	0	1695.923
11500	90.00	179.74	100	10502.18	-7492.18	-1774.802	415.352	623313.552	369882.498	32.016297	-103.935472	0	0	0	1795.782
11600	90.00	179.74	100	10502.177	-7492.177	-1874.801	415.804	623314.004	369782.499	32.016022	-103.935472	0	0	0	1895.641
11700	90.00	179.74	100	10502.174	-7492.174	-1974.8	416.255	623314.455	369682.5	32.015747	-103.935471	0	0	0	1995.5
11800	90.00	179.74	100	10502.171	-7492.171	-2074.799	416.707	623314.907	369582.501	32.015472	-103.935471	0	0	0	2095.359
11900	90.00	179.74	100	10502.168	-7492.168	-2174.798	417.159	623315.359	369482.502	32.015197	-103.935471	0	0	0	2195.218
12000	90.00	179.74	100	10502.165	-7492.165	-2274.797	417.61	623315.81	369382.503	32.014922	-103.935471	0	0	0	2295.077
12100	90.00	179.74	100	10502.162	-7492.162	-2374.796	418.062	623316.262	369282.504	32.014648	-103.93547	0	0	0	2394.936
12200	90.00	179.74	100	10502.158	-7492.158	-2474.794	418.514	623316.714	369182.506	32.014373	-103.93547	0	0	0	2494.795
12300	90.00	179.74	100	10502.155	-7492.155	-2574.793	418.965	623317.165	369082.507	32.014098	-103.93547	0	0	0	2594.654
12400	90.00	179.74	100	10502.152	-7492.152	-2674.792	419.417	623317.617	368982.508	32.013823	-103.935469	0	0	0	2694.513

12500	90.00	179.74	100	10502.149	-7492.149	-2774.791	419.869	623318.069	368882.509	32.013548	-103.935469	0	0	0	2794.372
12600	90.00	179.74	100	10502.146	-7492.146	-2874.79	420.32	623318.52	368782.51	32.013273	-103.935469	0	0	0	2894.23
12700	90.00	179.74	100	10502.143	-7492.143	-2974.789	420.772	623318.972	368682.511	32.012998	-103.935469	0	0	0	2994.089
12800	90.00	179.74	100	10502.14	-7492.14	-3074.788	421.224	623319.424	368582.512	32.012723	-103.935468	0	0	0	3093.948
12900	90.00	179.74	100	10502.137	-7492.137	-3174.787	421.675	623319.875	368482.513	32.012448	-103.935468	0	0	0	3193.807
13000	90.00	179.74	100	10502.134	-7492.134	-3274.786	422.127	623320.327	368382.514	32.012173	-103.935468	0	0	0	3293.666
13100	90.00	179.74	100	10502.131	-7492.131	-3374.785	422.579	623320.779	368282.515	32.011899	-103.935468	0	0	0	3393.525
13200	90.00	179.74	100	10502.128	-7492.128	-3474.784	423.03	623321.23	368182.516	32.011624	-103.935467	0	0	0	3493.384
13300	90.00	179.74	100	10502.124	-7492.124	-3574.783	423.482	623321.682	368082.517	32.011349	-103.935467	0	0	0	3593.243
13400	90.00	179.74	100	10502.121	-7492.121	-3674.782	423.934	623322.134	367982.518	32.011074	-103.935467	0	0	0	3693.102
13500	90.00	179.74	100	10502.118	-7492.118	-3774.781	424.385	623322.585	367882.519	32.010799	-103.935466	0	0	0	3792.961
13600	90.00	179.74	100	10502.115	-7492.115	-3874.78	424.837	623323.037	367782.52	32.010524	-103.935466	0	0	0	3892.82
13700	90.00	179.74	100	10502.112	-7492.112	-3974.779	425.289	623323.489	367682.521	32.010249	-103.935466	0	0	0	3992.679
13800	90.00	179.74	100	10502.109	-7492.109	-4074.778	425.74	623323.94	367582.522	32.009974	-103.935466	0	0	0	4092.537
13900	90.00	179.74	100	10502.106	-7492.106	-4174.777	426.192	623324.392	367482.523	32.009699	-103.935465	0	0	0	4192.396
14000	90.00	179.74	100	10502.103	-7492.103	-4274.776	426.644	623324.844	367382.524	32.009424	-103.935465	0	0	0	4292.255
14100	90.00	179.74	100	10502.1	-7492.1	-4374.775	427.095	623325.295	367282.525	32.009149	-103.935465	0	0	0	4392.114
14200	90.00	179.74	100	10502.097	-7492.097	-4474.774	427.547	623325.747	367182.526	32.008875	-103.935465	0	0	0	4491.973
14300	90.00	179.74	100	10502.094	-7492.094	-4574.773	427.999	623326.199	367082.527	32.0086	-103.935464	0	0	0	4591.832
14400	90.00	179.74	100	10502.091	-7492.091	-4674.772	428.45	623326.65	366982.528	32.008325	-103.935464	0	0	0	4691.691
14500	90.00	179.74	100	10502.087	-7492.087	-4774.771	428.902	623327.102	366882.529	32.00805	-103.935464	0	0	0	4791.55
14600	90.00	179.74	100	10502.084	-7492.084	-4874.77	429.354	623327.554	366782.53	32.007775	-103.935464	0	0	0	4891.409
14700	90.00	179.74	100	10502.081	-7492.081	-4974.769	429.805	623328.005	366682.531	32.0075	-103.935463	0	0	0	4991.268
14800	90.00	179.74	100	10502.078	-7492.078	-5074.768	430.257	623328.457	366582.532	32.007225	-103.935463	0	0	0	5091.127
14900	90.00	179.74	100	10502.075	-7492.075	-5174.767	430.709	623328.909	366482.533	32.006995	-103.935463	0	0	0	5190.986
15000	90.00	179.74	100	10502.072	-7492.072	-5274.766	431.16	623329.36	366382.534	32.006675	-103.935462	0	0	0	5290.845
15100	90.00	179.74	100	10502.069	-7492.069	-5374.765	431.612	623329.812	366282.535	32.0064	-103.935462	0	0	0	5390.703
15200	90.00	179.74	100	10502.066	-7492.066	-5474.764	432.064	623330.264	366182.536	32.006126	-103.935462	0	0	0	5490.562
15300	90.00	179.74	100	10502.063	-7492.063	-5574.763	432.515	623330.715	366082.537	32.005851	-103.935462	0	0	0	5590.421
15400	90.00	179.74	100	10502.06	-7492.06	-5674.762	432.967	623331.167	365982.538	32.005576	-103.935461	0	0	0	5690.28
15500	90.00	179.74	100	10502.057	-7492.057	-5774.761	433.419	623331.619	365882.539	32.005301	-103.935461	0	0	0	5790.139
15600	90.00	179.74	100	10502.054	-7492.054	-5874.76	433.87	623332.07	365782.54	32.005026	-103.935461	0	0	0	5889.998
15700	90.00	179.74	100	10502.05	-7492.05	-5974.759	434.322	623332.522	365682.541	32.004751	-103.935461	0	0	0	5989.857
15800	90.00	179.74	100	10502.047	-7492.047	-6074.758	434.773	623332.973	365582.542	32.004476	-103.93546	0	0	0	6089.716
15900	90.00	179.74	100	10502.044	-7492.044	-6174.757	435.225	623333.425	365482.543	32.004201	-103.93546	0	0	0	6189.575
16000	90.00	179.74	100	10502.041	-7492.041	-6274.756	435.677	623333.877	365382.544	32.003926	-103.93546	0	0	0	6289.434
16100	90.00	179.74	100	10502.038	-7492.038	-6374.755	436.128	623334.328	365282.545	32.003651	-103.935459	0	0	0	6389.293
16200	90.00	179.74	100	10502.035	-7492.035	-6474.754	436.58	623334.78	365182.546	32.003376	-103.935459	0	0	0	6489.152
16300	90.00	179.74	100	10502.032	-7492.032	-6574.753	437.032	623335.232	365082.547	32.003102	-103.935459	0	0	0	6589.01
16400	90.00	179.74	100	10502.029	-7492.029	-6674.752	437.483	623335.683	364982.548	32.002827	-103.935459	0	0	0	6688.869
16500	90.00	179.74	100	10502.026	-7492.026	-6774.751	437.935	623336.135	364882.549	32.002552	-103.935458	0	0	0	6788.728
16600	90.00	179.74	100	10502.023	-7492.023	-6874.75	438.387	623336.587	364782.55	32.002277	-103.935458	0	0	0	6888.587
16700	90.00	179.74	100	10502.02	-7492.02	-6974.749	438.838	623337.038	364682.551	32.002002	-103.935458	0	0	0	6988.446
16800	90.00	179.74	100	10502.016	-7492.016	-7074.748	439.29	623337.49	364582.552	32.001727	-103.935458	0	0	0	7088.305
16900	90.00	179.74	100	10502.013	-7492.013	-7174.747	439.742	623337.942	364482.553	32.001452	-103.935457	0	0	0	7188.164
17000	90.00	179.74	100	10502.01	-7492.01	-7274.746	440.193	623338.393	364382.554	32.001177	-103.935457	0	0	0	7288.023
17100	90.00	179.74	100	10502.007	-7492.007	-7374.745	440.645	623338.845	364282.555	32.000902	-103.935457	0	0	0	7387.882
17200	90.00	179.74	100	10502.004	-7492.004	-7474.743	441.097	623339.297	364182.557	32.000627	-103.935457	0	0	0	7487.741
17300	90.00	179.74	100	10502.001	-7492.001	-7574.742	441.548	623339.748	364082.558	32.000353	-103.935456	0	0	0	7587.6
17334	90.00	179.74	33.558	10502	-7492	-7608.3	441.7	623339.9	364049	32.00026	-103.935456	0	0	0	7621.11
17384	90.00	179.74	49.999	10501.998	-7491.998	-7658.299	441.926	623340.126	363999.001	32.000123	-103.935456	0	0	0	7671.039



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CACTUS WELLHEAD LLC			ALL DIMENSIONS APPROXIMATE		
(20") x 13-3/8" x 9-5/8" x 7-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head And Drilling & Skid Configurations			XTO ENERGY INC DELAWARE BASIN		
			DRAWN	VJK	31MAR22
			APPRV		
			DRAWING NO. SDT-3301		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Energy Incorporated
WELL NAME & NO.:	Shady Pines 24-36 State Fed Com 071H
LOCATION:	Sec 24-26S-29E-NMP
COUNTY:	Eddy County, New Mexico

*Updated COAs per Sundry 2694767 approved through engineering on 10/14/2022.
Previously known as **Shady Pines 24-36 071H**.*

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input checked="" type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Other	<input type="checkbox"/> 4 String Area	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input checked="" type="checkbox"/> Fluid Filled	<input type="checkbox"/> Cement Squeeze	<input type="checkbox"/> Pilot Hole
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Brushy Draw Pool** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 850 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

- Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least **200 feet** into previous casing string. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

4. The minimum required fill of cement behind the **5** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)

c. BOPE tests (minimum of 4 hours)

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the

requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall

commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and

disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 151472

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 151472
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	10/18/2022