

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

Form C-101
August 1, 2011

Permit 306059

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102		2. OGRID Number 372137
		3. API Number 30-025-49709
4. Property Code 332087	5. Property Name SQUEEZE 2 STATE COM	6. Well No. 003H

7. Surface Location

UL - Lot M	Section 2	Township 22S	Range 34E	Lot Idn M	Feet From 380	N/S Line S	Feet From 1175	E/W Line W	County Lea
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8. Proposed Bottom Hole Location

UL - Lot D	Section 2	Township 22S	Range 34E	Lot Idn 4	Feet From 100	N/S Line N	Feet From 800	E/W Line W	County Lea
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9. Pool Information

OJO CHISO;BONE SPRING	96553
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3572
16. Multiple N	17. Proposed Depth 15248	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 4/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1725	2248	0
Int1	12.25	9.625	40	5600	1510	0
Prod	8.75	5.5	20	15248	2248	4600

Casing/Cement Program: Additional Comments

INT. 1 STRING WILL HAVE DV TOOL SET @ 3900' W/ 2 STAGE CMNT JOB

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	2500	2500	CAMERON
Double Ram	5000	5000	CAMERON
Pipe	5000	5000	CAMERON

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.		OIL CONSERVATION DIVISION	
Signature:			
Printed Name:	Electronically filed by Jennifer Elrod	Approved By:	Paul F Kautz
Title:	Sr. Regulatory Tech	Title:	Geologist
Email Address:	jelrod@chisholmenergy.com	Approved Date:	1/11/2022
Date:	1/6/2022	Phone:	817-953-3728
		Expiration Date: 1/11/2024	
Conditions of Approval Attached			

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49709	² Pool Code 96553	³ Pool Name OJO CHISO; BONE SPRING
⁴ Property Code 332087	⁵ Property Name SQUEEZE 2 STATE COM	⁶ Well Number 3H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 3571.8'

¹⁰Surface Location

UL or lot no. M	Section 2	Township 22S	Range 34E	Lot Idn	Feet from the 380	North/South line SOUTH	Feet from the 1175	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. 4	Section 2	Township 22S	Range 34E	Lot Idn	Feet from the 100	North/South line NORTH	Feet from the 800	East/West line WEST	County LEA
¹² Dedicated Acres 324.37		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

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

NAD 83 (SHL/KOP)
LATITUDE = 32°24'52.27" (32.414519°)
LONGITUDE = 103°26'43.48" (103.445412°)
NAD 27 (SHL/KOP)
LATITUDE = 32°24'51.82" (32.414395°)
LONGITUDE = 103°26'41.75" (103.444932°)
STATE PLANE NAD 83 (N.M. EAST)
N: 515671.57' E: 815341.71'
STATE PLANE NAD 27 (N.M. EAST)
N: 515610.64' E: 774158.67'
NAD 83 (LANDING POINT)
LATITUDE = 32°24'49.50" (32.413751°)
LONGITUDE = 103°26'47.86" (103.446628°)
NAD 27 (LANDING POINT)
LATITUDE = 32°24'49.06" (32.413627°)
LONGITUDE = 103°26'46.13" (103.446148°)
STATE PLANE NAD 83 (N.M. EAST)
N: 515388.85' E: 814968.64'
STATE PLANE NAD 27 (N.M. EAST)
N: 515327.92' E: 773785.60'

NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°25'40.44" (32.427899°)	
LONGITUDE = 103°26'47.73" (103.446593°)	
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°25'39.99" (32.427775°)	
LONGITUDE = 103°26'46.00" (103.446112°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 520536.06'	E: 814936.86'
STATE PLANE NAD 27 (N.M. EAST)	
N: 520474.99'	E: 773753.93'

NOTE:

- Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

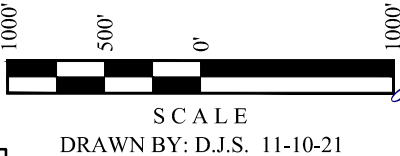
LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S53°05'07"W	468.17'

● = SURFACE HOLE
LOCATION/KICK OFF POINT

◆ = LANDING POINT

⊙ = BOTTOM HOLE LOCATION

▲ = SECTION CORNER LOCATED



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.

Jennifer Elrod 12/14/2021
Signature Date

Jennifer Elrod
Printed Name

jelrod@chisholmenergy.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.

November 09, 2021

Date of Survey _____
Signature and Seal of Professional Surveyor: _____



Certificate Number:

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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:	Property Name:	Well Number

KZ 06/29/2018

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

Form APD Conditions

Permit 306059

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CHISHOLM ENERGY OPERATING, LLC [372137] 801 Cherry Street Fort Worth, TX 76102	API Number: 30-025-49709
	Well: SQUEEZE 2 STATE COM #003H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: CHISHOLM ENERGY OPERATING, LLC **OGRID:** 372137 **Date:** 01 / 06 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Squeeze 2 State Com 2BS 3H	30-025-49709	M-2-22S-34E	380 FSL, 1175 FWL	2000	2000	5500
Squeeze 2 State Com 2BS 4H		M-2-22S-34E	380 FSL, 1205 FWL	2000	2000	5500
Squeeze 2 State Com 2BS 5H		M-2-22S-34E	380 FSL, 1235 FWL	2000	2000	5500

IV. Central Delivery Point Name: SQUEEZE 2 STATE COM BATTERY [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Squeeze 2 State Com 2BS 3H	30-025-49709	08/01/2022	08/29/2022	01/10/2023	01/12/2023	01/15/2023
Squeeze 2 State Com 2BS 4H		09/01/2022	09/29/2022	01/10/2023	01/12/2023	01/15/2023
Squeeze 2 State Com 2BS 5H		10/01/2022	10/29/2022	01/10/2023	01/12/2023	01/15/2023

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☒ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	<i>Jennifer Elrod</i>
Printed Name:	JENNIFER ELROD
Title:	SR. REGULATORY ANALYST
E-mail Address:	JELROD@CHISHOLMENERGY.COM
Date:	01/06/2022
Phone:	(817)953-3728
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)	
Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

**CEH Natural Gas Management
Plan Items VI-VIII**

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment will be sized to provide adequate separation for anticipated rates.
- Adequate separation relates to retention time for Liquid – Liquid separation and velocity for Gas-Liquid separation.
- Collection systems are appropriately sized to handle facility production rates on all (3) phases.
- Ancillary equipment and metering are selected to be serviced without flow interruptions or the need to release gas from the well.

VII. Operational Practices: Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F 19.15.27.8 NMAC.

Drilling Operations

- All flare stacks will be properly sized. The flare stacks will be located at a minimum 100' from the nearest surface hole location on the pad.
- All-natural gas produced during drilling operations will be flared, unless there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety and the environment, at which point the gas will be vented.

Completions/Recompletions Operations

- New wells will not be flowed back until they are connected to a properly sized gathering system.
- The facility will be built/sized for maximum anticipated flowrates and pressures to minimize waste.
- For flowback operations, multiple stages of separation will be used as well as excess VRU and blowers to make sure waste is minimized off the storage tanks and facility.
- During initial flowback, the well stream will be routed to separation equipment.
- At an existing facility, when necessary, post separation natural gas will be flared until it meets pipeline specifications, at which point it will be turned into a collection system.
- At a new facility, post separation natural gas will be vented until storage tanks can safely function, at which point it will be flared until it meets pipeline spec.

Production Operations

- Weekly AVOs will be performed on all facilities.
- All flares will be equipped with auto-ignition systems and continuous pilot operations.
- After a well is stabilized from liquid unloading, the well will be turned back into the collection system.
- All tanks will have sight glasses installed, but no electronic gauging equipment.
- Leaking thief hatches found during AVOs will be cleaned and properly re-sealed.
- There will be no gas re-injection for underground storage, temporary storage, or for enhanced oil recovery; however, gas injection will be used for gas lift applications in which the gas would be circulated through a closed loop system.
- If H₂S is encountered, gas will be treated to pipeline spec to avoid shut-in's and/or flaring.

Performance Standards

- Production equipment will be designed to handle maximum anticipated rates and pressure.

Page 5

- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Weekly AVOs will be performed on all wells and facilities that produce more than 50MCFPD.

Measurement & Estimation

- All volume that is flared or vented that is not measured will be estimated.
- All measurement equipment for flared volumes will conform to API 14.10.
- No meter bypasses will be installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated.

VIII. Best Management Practices: Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- During downhole well maintenance, CEH will use best management practices to vent as minimally as possible.
- After downhole well maintenance, natural gas will be flared until it reaches pipeline specification.



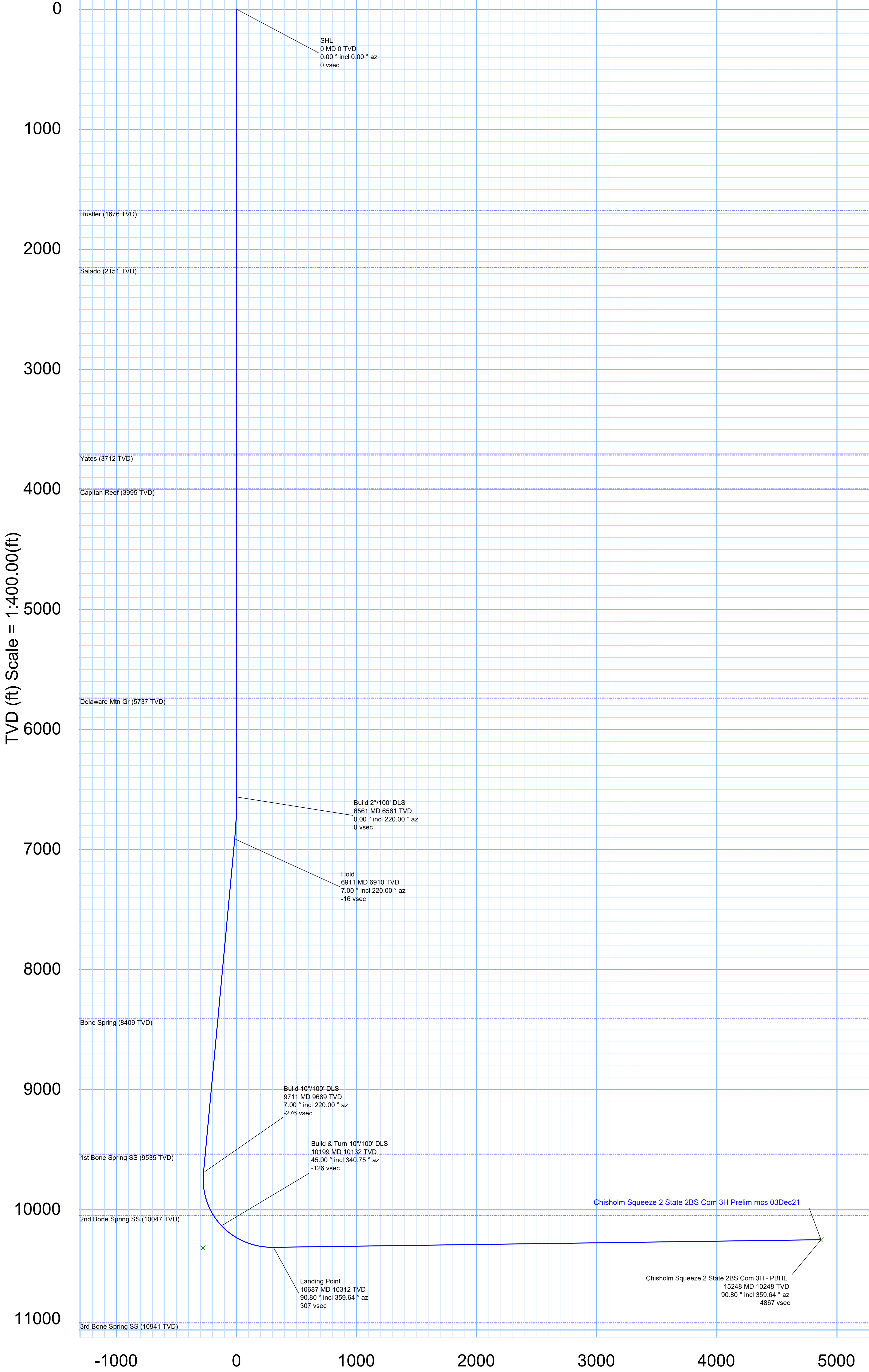
Chisholm Energy Operating, LLC



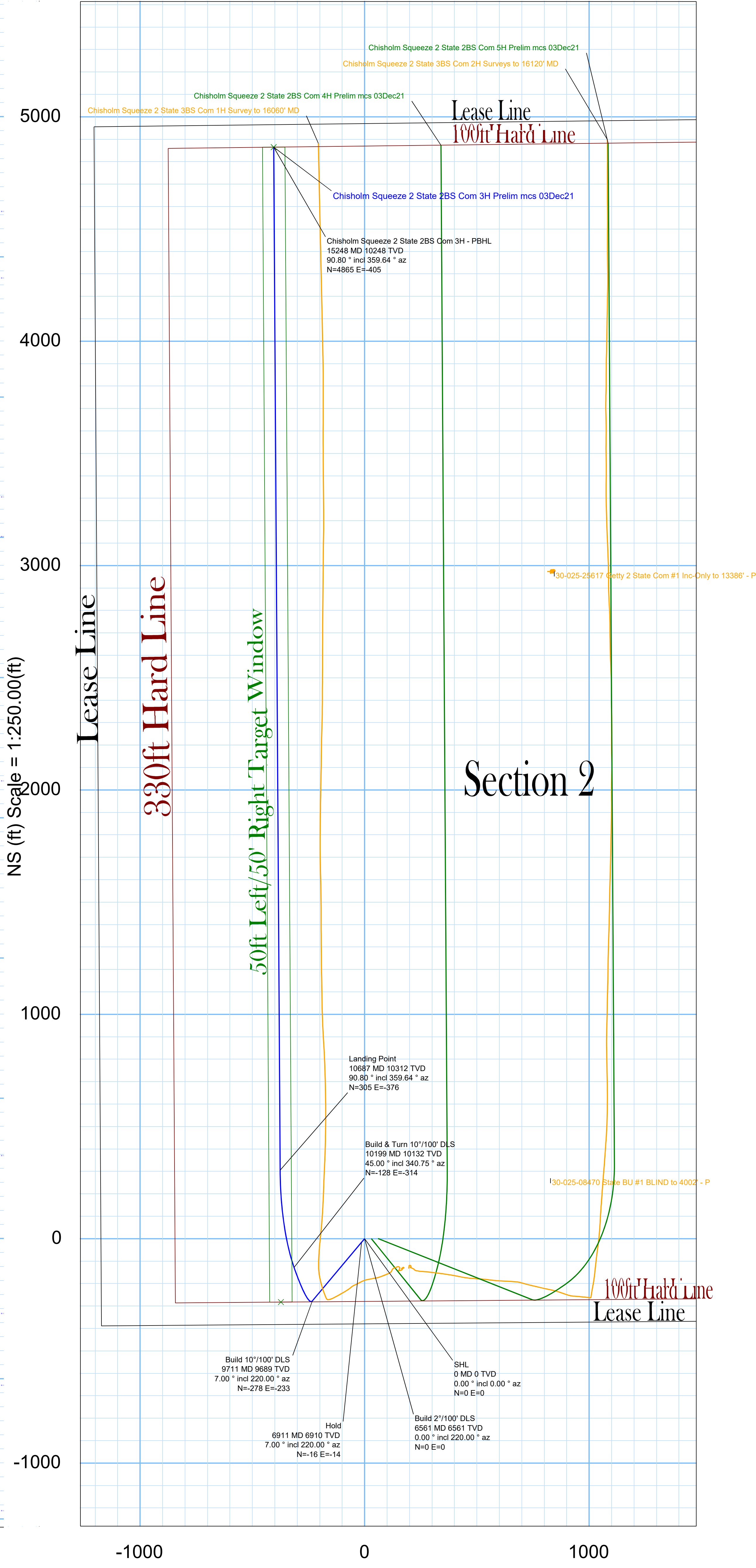
Borehole:	Well:	Field:	Structure:
Chisholm Squeeze 2 State 2BS Com 3H	Chisholm Squeeze 2 State 2BS Com 3H	NM Lea County (NAD 83)	Chisholm Squeeze 2 State 2BS Com PAD

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2021	Dip:	60.112°	Date:	03-Dec-2021	Lat:	N 32 24 52.27	Northing:	515671.4ftUS	Grid Conv:	0.476°
MagDec:	6.418°	FS:	47786.903nT	Gravity FS:	998.48mgn (9.80665 Based)	Lon:	W 103 26 43.48	Easting:	815341.71ftUS	Scale Fact:	0.99999508
								Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21			
								Slot: Chisholm Squeeze 2 State TVD Ref: RKB(3597.8ft above MSL)			
								Plan: Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21			

Critical Points								
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(+)/S(-)	E(+)/W(-)	DLS
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Rustler	1676.00	0.00	220.00	1676.00	0.00	0.00	0.00	0.00
Salado	2151.00	0.00	220.00	2151.00	0.00	0.00	0.00	0.00
Yates	3712.00	0.00	220.00	3712.00	0.00	0.00	0.00	0.00
Capitan Reef	3995.00	0.00	220.00	3995.00	0.00	0.00	0.00	0.00
Delaware Mtn Gr	5737.00	0.00	220.00	5737.00	0.00	0.00	0.00	0.00
Build 2"/100' DLS	6560.80	0.00	220.00	6560.80	0.00	0.00	0.00	0.00
Hold	6910.80	7.00	220.00	6909.93	-16.27	-16.36	-13.73	2.00
Bone Spring	8421.13	7.00	220.00	8409.00	-156.53	-157.36	-132.04	0.00
1st Bone Spring SS	9555.58	7.00	220.00	9535.00	-261.88	-263.27	-220.91	0.00
Build 10"/100' DLS	9710.80	7.00	220.00	9689.06	-276.29	-277.76	-233.07	0.00
2nd Bone Spring SS	10089.68	34.15	338.05	10047.00	-191.90	-193.72	-289.75	10.00
Build & Turn 10"/100' DLS	10199.50	45.00	340.75	10131.52	-126.30	-128.28	-314.15	10.00
Landing Point	10687.20	90.80	359.64	10311.55	307.16	304.81	-376.32	10.00
Chisholm Squeeze 2 State 2BS Com 3H - PBHL	15247.73	90.80	359.64	10247.84	4867.25	4864.80	-404.85	0.00
Wolfcamp	NaN			11247.00				
3rd Bone Spring SS	NaN			10941.00				
Strawn	NaN			11767.00				



Vertical Section (ft) Azim = 359.64° Scale = 1:400.00(ft) Origin = 0N/-S, 0E/-W



EW (ft) Scale = 1:250.00(ft)



Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21 Proposal Geodetic Report (Def Plan)

Report Date: December 03, 2021 - 03:08 PM
Client: Chisholm Energy Operating, LLC
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Squeeze 2 State 2BS Com PAD / Chisholm Squeeze 2 State 2BS Com 3H
Well: Chisholm Squeeze 2 State 2BS Com 3H
Borehole: Chisholm Squeeze 2 State 2BS Com 3H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21
Survey Date: December 03, 2021
Tort / AHD / DDI / ERD Ratio: 104.640 ° / 5540.659 ft / 5.933 / 0.537
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 24' 52.26840", W 103° 26' 43.48320"
Location Grid N/E Y/X: N 515671.398 ftUS, E 815341.707 ftUS
CRS Grid Convergence Angle: 0.4760 °
Grid Scale Factor: 0.99999508
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.640 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3597.800 ft above MSL
Seabed / Ground Elevation: 3571.800 ft above MSL
Magnetic Declination: 6.418 °
Total Gravity Field Strength: 998.4801mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47786.903 nT
Magnetic Dip Angle: 60.112 °
Declination Date: December 03, 2021
Magnetic Declination Model: HDGM 2021
North Reference: Grid North
Grid Convergence Used: 0.4760 °
Total Corr Mag North->Grid North: 5.9421 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Rustler	1676.00	0.00	220.00	1676.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Salado	2151.00	0.00	220.00	2151.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Yates	3712.00	0.00	220.00	3712.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Capitan Reef	3995.00	0.00	220.00	3995.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Delaware Mtn Gr	5737.00	0.00	220.00	5737.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Build 2"/100' DLS	6560.80	0.00	220.00	6560.80	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
Hold	6910.80	7.00	220.00	6909.93	-16.27	-16.36	-13.73	2.00	515655.04	815327.98	N 32 24 52.11	W 103 26 43.64
Bone Spring	8421.13	7.00	220.00	8409.00	-156.53	-157.36	-132.04	0.00	515514.04	815209.67	N 32 24 50.72	W 103 26 45.04
1st Bone Spring SS	9555.58	7.00	220.00	9535.00	-261.88	-263.27	-220.91	0.00	515408.13	815120.80	N 32 24 49.68	W 103 26 46.09
Build 10"/100' DLS	9710.80	7.00	220.00	9689.06	-276.29	-277.76	-233.07	0.00	515393.64	815108.64	N 32 24 49.54	W 103 26 46.23
2nd Bone Spring SS	10089.68	34.15	338.05	10047.00	-191.90	-193.72	-289.75	10.00	515477.68	815051.96	N 32 24 50.38	W 103 26 46.88
Build & Turn 10"/100' DLS	10199.50	45.00	340.75	10131.52	-126.30	-128.28	-314.15	10.00	515543.12	815027.56	N 32 24 51.02	W 103 26 47.16
Landing Point Chisholm	10687.20	90.80	359.64	10311.55	307.16	304.81	-376.32	10.00	515976.20	814965.39	N 32 24 55.32	W 103 26 47.84
Squeeze 2 State 2BS Com 3H - PBHL	15247.73	90.80	359.64	10247.84	4867.25	4864.80	-404.85	0.00	520536.16	814936.85	N 32 25 40.44	W 103 26 47.73

Survey Type: Def Plan

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Expected Max Inclination (deg)	Survey Tool Type	Borehole / Survey
	1	0.000	26.000	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG-Depth Only	Chisholm Squeeze 2 State 2BS Com 3H / Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs
	1	26.000	15247.730	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG	Chisholm Squeeze 2 State 2BS Com 3H / Chisholm Squeeze 2



Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21 Proposal Geodetic Report (Def Plan)

Report Date: December 03, 2021 - 03:08 PM
Client: Chisholm Energy Operating, LLC
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Squeeze 2 State 2BS Com PAD / Chisholm Squeeze 2 State 2BS Com 3H
Well: Chisholm Squeeze 2 State 2BS Com 3H
Borehole: Chisholm Squeeze 2 State 2BS Com 3H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Squeeze 2 State 2BS Com 3H Prelim mcs 03Dec21
Survey Date: December 03, 2021
Tort / AHD / DDI / ERD Ratio: 104.640 ° / 5540.659 ft / 5.933 / 0.537
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 24' 52.26840", W 103° 26' 43.48320"
Location Grid N/E Y/X: N 515671.398 ftUS, E 815341.707 ftUS
CRS Grid Convergence Angle: 0.4760 °
Grid Scale Factor: 0.99999508
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.640 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3597.800 ft above MSL
Seabed / Ground Elevation: 3571.800 ft above MSL
Magnetic Declination: 6.418 °
Total Gravity Field Strength: 998.4801mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47786.903 nT
Magnetic Dip Angle: 60.112 °
Declination Date: December 03, 2021
Magnetic Declination Model: HDGM 2021
North Reference: Grid North
Grid Convergence Used: 0.4760 °
Total Corr Mag North->Grid North: 5.9421 °
Local Coord Referenced To: Well Head

	MD	Incl	Azim Grid	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude	
	(ft)	(°)		(ft)	(ft)	(ft)	(ft)	(°/100ft)	(ftUS)	(ftUS)	(N/S ° ' ")	(E/W ° ' ")	
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	100.00	0.00	220.00	100.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	200.00	0.00	220.00	200.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	300.00	0.00	220.00	300.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	400.00	0.00	220.00	400.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	500.00	0.00	220.00	500.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	600.00	0.00	220.00	600.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	700.00	0.00	220.00	700.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	800.00	0.00	220.00	800.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	900.00	0.00	220.00	900.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	1000.00	0.00	220.00	1000.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
	1100.00	0.00	220.00	1100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1200.00	0.00	220.00	1200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1300.00	0.00	220.00	1300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1400.00	0.00	220.00	1400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1500.00	0.00	220.00	1500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1600.00	0.00	220.00	1600.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1700.00	0.00	220.00	1700.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1800.00	0.00	220.00	1800.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	1900.00	0.00	220.00	1900.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2000.00	0.00	220.00	2000.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2100.00	0.00	220.00	2100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2200.00	0.00	220.00	2200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2300.00	0.00	220.00	2300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2400.00	0.00	220.00	2400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2500.00	0.00	220.00	2500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2600.00	0.00	220.00	2600.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2700.00	0.00	220.00	2700.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2800.00	0.00	220.00	2800.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	2900.00	0.00	220.00	2900.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3000.00	0.00	220.00	3000.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3100.00	0.00	220.00	3100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3200.00	0.00	220.00	3200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3300.00	0.00	220.00	3300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3400.00	0.00	220.00	3400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3500.00	0.00	220.00	3500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3600.00	0.00	220.00	3600.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3700.00	0.00	220.00	3700.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3800.00	0.00	220.00	3800.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	3900.00	0.00	220.00	3900.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4000.00	0.00	220.00	4000.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4100.00	0.00	220.00	4100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4200.00	0.00	220.00	4200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4300.00	0.00	220.00	4300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4400.00	0.00	220.00	4400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4500.00	0.00	220.00	4500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4600.00	0.00	220.00	4600.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4700.00	0.00	220.00	4700.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4800.00	0.00	220.00	4800.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	4900.00	0.00	220.00	4900.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5000.00	0.00	220.00	5000.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5100.00	0.00	220.00	5100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5200.00	0.00	220.00	5200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5300.00	0.00	220.00	5300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5400.00	0.00	220.00	5400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5500.00	0.00	220.00	5500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5600.00	0.00	220.00	5600.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5700.00	0.00	220.00	5700.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5800.00	0.00	220.00	5800.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	5900.00	0.00	220.00	5900.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	6000.00	0.00	220.00	6000.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	6100.00	0.00	220.00	6100.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	6200.00	0.00	220.00	6200.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	6300.00	0.00	220.00	6300.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
	6400.00	0.00	220.00	6400.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48
6500.00	0.00	220.00	6500.00	0.00	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
Build 2"/100'	6560.80	0.00	220.00	6560.80	0.00	0.00	0.00	0.00	515671.40	815341.71	N 32 24 52.27	W 103 26 43.48	
DLS	6600.00	0.78	220.00	6600.00	-0.20	-0.21	-0.17	2.00	515671.19	815341.53	N 32 24 52.27	W 103 26 43.49	
	6700.00	2.78	220.00	6699.95	-2.58	-2.59	-2.17	2.00	515668.81	815339.53	N 32 24 52.24	W 103 26 43.51	
	6800.00	4.78	220.00	6799.72	-7.60	-7.65	-6.42	2.00	515663.75	815335.29	N 32 24 52.19	W 103 26 43.56	
	6900.00	6.78	220.00	6899.21	-15.28	-15.37	-12.89	2.00	515656.03	815328.81	N 32 24 52.12	W 103 26 43.64	
Hold	6910.80	7.00	220.00	6909.93	-16.27	-16.36	-13.73	2.00	515655.04	815327.98	N 32 24 52.11	W 103 26 43.64	
	7000.00	7.00	220.00	6998.47	-24.55	-24.69	-						

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7200.00	7.00	220.00	7196.97	-43.13	-43.36	-36.38	0.00	515628.04	815305.33	N 32 24 51.84	W 103 26 43.91
	7300.00	7.00	220.00	7296.23	-52.41	-52.69	-44.21	0.00	515618.71	815297.49	N 32 24 51.75	W 103 26 44.00
	7400.00	7.00	220.00	7395.48	-61.70	-62.03	-52.05	0.00	515609.37	815289.66	N 32 24 51.66	W 103 26 44.10
	7500.00	7.00	220.00	7494.74	-70.99	-71.36	-59.88	0.00	515600.03	815281.83	N 32 24 51.57	W 103 26 44.19
	7600.00	7.00	220.00	7593.99	-80.27	-80.70	-67.72	0.00	515590.70	815273.99	N 32 24 51.48	W 103 26 44.28
	7700.00	7.00	220.00	7693.25	-89.56	-90.04	-75.55	0.00	515581.36	815266.16	N 32 24 51.38	W 103 26 44.37
	7800.00	7.00	220.00	7792.50	-98.85	-99.37	-83.38	0.00	515572.03	815258.32	N 32 24 51.29	W 103 26 44.47
	7900.00	7.00	220.00	7891.76	-108.13	-108.71	-91.22	0.00	515562.69	815250.49	N 32 24 51.20	W 103 26 44.56
	8000.00	7.00	220.00	7991.01	-117.42	-118.04	-99.05	0.00	515553.35	815242.66	N 32 24 51.11	W 103 26 44.65
	8100.00	7.00	220.00	8090.27	-126.71	-127.38	-106.88	0.00	515544.02	815234.82	N 32 24 51.02	W 103 26 44.74
	8200.00	7.00	220.00	8189.52	-135.99	-136.72	-114.72	0.00	515534.68	815226.99	N 32 24 50.93	W 103 26 44.83
	8300.00	7.00	220.00	8288.77	-145.28	-146.05	-122.55	0.00	515525.35	815219.16	N 32 24 50.83	W 103 26 44.93
	8400.00	7.00	220.00	8388.03	-154.57	-155.39	-130.38	0.00	515516.01	815211.32	N 32 24 50.74	W 103 26 45.02
	8500.00	7.00	220.00	8487.28	-163.85	-164.72	-138.22	0.00	515506.68	815203.49	N 32 24 50.65	W 103 26 45.11
	8600.00	7.00	220.00	8586.54	-173.14	-174.06	-146.05	0.00	515497.34	815195.66	N 32 24 50.56	W 103 26 45.20
	8700.00	7.00	220.00	8685.79	-182.42	-183.40	-153.89	0.00	515488.00	815187.82	N 32 24 50.47	W 103 26 45.30
	8800.00	7.00	220.00	8785.05	-191.71	-192.73	-161.72	0.00	515478.67	815179.99	N 32 24 50.37	W 103 26 45.39
	8900.00	7.00	220.00	8884.30	-201.00	-202.07	-169.55	0.00	515469.33	815172.16	N 32 24 50.28	W 103 26 45.48
	9000.00	7.00	220.00	8983.56	-210.28	-211.40	-177.39	0.00	515460.00	815164.32	N 32 24 50.19	W 103 26 45.57
	9100.00	7.00	220.00	9082.81	-219.57	-220.74	-185.22	0.00	515450.66	815156.49	N 32 24 50.10	W 103 26 45.67
	9200.00	7.00	220.00	9182.07	-228.86	-230.07	-193.05	0.00	515441.33	815148.65	N 32 24 50.01	W 103 26 45.76
	9300.00	7.00	220.00	9281.32	-238.14	-239.41	-200.89	0.00	515431.99	815140.82	N 32 24 49.92	W 103 26 45.85
	9400.00	7.00	220.00	9380.58	-247.43	-248.75	-208.72	0.00	515422.65	815132.99	N 32 24 49.82	W 103 26 45.94
	9500.00	7.00	220.00	9479.83	-256.72	-258.08	-216.56	0.00	515413.32	815125.15	N 32 24 49.73	W 103 26 46.03
	9600.00	7.00	220.00	9579.08	-266.00	-267.42	-224.39	0.00	515403.98	815117.32	N 32 24 49.64	W 103 26 46.13
	9700.00	7.00	220.00	9678.34	-275.29	-276.75	-232.22	0.00	515394.65	815109.49	N 32 24 49.55	W 103 26 46.22
Build 10°/100' DLS	9710.80	7.00	220.00	9689.06	-276.29	-277.76	-233.07	0.00	515393.64	815108.64	N 32 24 49.54	W 103 26 46.23
	9800.00	7.38	296.75	9777.74	-277.83	-279.35	-241.70	10.00	515392.05	815100.01	N 32 24 49.52	W 103 26 46.33
	9900.00	15.79	325.97	9875.68	-263.54	-265.15	-255.09	10.00	515406.25	815086.62	N 32 24 49.67	W 103 26 46.48
	10000.00	25.37	334.39	9969.21	-232.76	-234.48	-272.00	10.00	515436.92	815069.71	N 32 24 49.97	W 103 26 46.68
	10100.00	35.17	338.36	10055.49	-186.44	-188.28	-291.93	10.00	515483.12	815049.78	N 32 24 50.43	W 103 26 46.91
Build & Turn 10°/100' DLS	10199.50	45.00	340.75	10131.52	-126.30	-128.28	-314.15	10.00	515543.12	815027.56	N 32 24 51.02	W 103 26 47.16
	10200.00	45.05	340.78	10131.88	-125.97	-127.94	-314.27	10.00	515543.46	815027.44	N 32 24 51.03	W 103 26 47.16
	10300.00	54.21	346.06	10196.61	-52.87	-54.98	-335.74	10.00	515616.41	815005.97	N 32 24 51.75	W 103 26 47.40
	10400.00	63.55	350.24	10248.26	30.93	28.71	-353.14	10.00	515700.11	814988.57	N 32 24 52.58	W 103 26 47.60
	10500.00	73.00	353.78	10285.25	122.89	120.59	-365.94	10.00	515791.99	814975.77	N 32 24 53.49	W 103 26 47.74
	10600.00	82.50	356.97	10306.45	220.22	217.87	-373.76	10.00	515889.27	814967.95	N 32 24 54.45	W 103 26 47.82
Landing Point	10687.20	90.80	359.64	10311.55	307.16	304.81	-376.32	10.00	515976.20	814965.39	N 32 24 55.32	W 103 26 47.84
	10700.00	90.80	359.64	10311.37	319.96	317.60	-376.40	0.00	515989.00	814965.31	N 32 24 55.44	W 103 26 47.84
	10800.00	90.80	359.64	10309.97	419.95	417.59	-377.03	0.00	516088.99	814964.68	N 32 24 56.43	W 103 26 47.84
	10900.00	90.80	359.64	10308.57	519.94	517.58	-377.66	0.00	516188.97	814964.05	N 32 24 57.42	W 103 26 47.84
	11000.00	90.80	359.64	10307.18	619.93	617.57	-378.28	0.00	516288.96	814963.43	N 32 24 58.41	W 103 26 47.84
	11100.00	90.80	359.64	10305.78	719.92	717.55	-378.91	0.00	516388.95	814962.80	N 32 24 59.40	W 103 26 47.83
	11200.00	90.80	359.64	10304.38	819.91	817.54	-379.53	0.00	516488.94	814962.18	N 32 25 0.39	W 103 26 47.83
	11300.00	90.80	359.64	10302.99	919.90	917.53	-380.16	0.00	516588.92	814961.55	N 32 25 1.38	W 103 26 47.83
	11400.00	90.80	359.64	10301.59	1019.89	1017.52	-380.78	0.00	516688.91	814960.93	N 32 25 2.37	W 103 26 47.83
	11500.00	90.80	359.64	10300.19	1119.88	1117.51	-381.41	0.00	516788.90	814960.30	N 32 25 3.36	W 103 26 47.82
	11600.00	90.80	359.64	10298.80	1219.87	1217.50	-382.03	0.00	516888.89	814959.67	N 32 25 4.35	W 103 26 47.82
	11700.00	90.80	359.64	10297.40	1319.86	1317.48	-382.66	0.00	516988.87	814959.05	N 32 25 5.34	W 103 26 47.82
	11800.00	90.80	359.64	10296.00	1419.85	1417.47	-383.29	0.00	517088.86	814958.42	N 32 25 6.33	W 103 26 47.82
	11900.00	90.80	359.64	10294.60	1519.84	1517.46	-383.91	0.00	517188.85	814957.80	N 32 25 7.31	W 103 26 47.81
	12000.00	90.80	359.64	10293.21	1619.83	1617.45	-384.54	0.00	517288.84	814957.17	N 32 25 8.30	W 103 26 47.81
	12100.00	90.80	359.64	10291.81	1719.82	1717.44	-385.16	0.00	517388.82	814956.55	N 32 25 9.29	W 103 26 47.81
	12200.00	90.80	359.64	10290.41	1819.81	1817.43	-385.79	0.00	517488.81	814955.92	N 32 25 10.28	W 103 26 47.81
	12300.00	90.80	359.64	10289.02	1919.80	1917.41	-386.41	0.00	517588.80	814955.30	N 32 25 11.27	W 103 26 47.81
	12400.00	90.80	359.64	10287.62	2019.79	2017.40	-387.04	0.00	517688.79	814954.67	N 32 25 12.26	W 103 26 47.80
	12500.00	90.80	359.64	10286.22	2119.78	2117.39	-387.67	0.00	517788.77	814954.04	N 32 25 13.25	W 103 26 47.80
	12600.00	90.80	359.64	10284.83	2219.78	2217.38	-388.29	0.00	517888.76	814953.42	N 32 25 14.24	W 103 26 47.80
	12700.00	90.80	359.64	10283.43	2319.77	2317.37	-388.92	0.00	517988.75	814952.79	N 32 25 15.23	W 103 26 47.80
	12800.00	90.80	359.64	10282.03	2419.76	2417.36	-389.54	0.00	518088.74	814952.17	N 32 25 16.22	W 103 26 47.79
	12900.00	90.80	359.64	10280.63	2519.75	2517.34	-390.17	0.00	518188.72	814951.54	N 32 25 17.21	W 103 26 47.79
	13000.00	90.80	359.64	10279.24	2619.74	2617.33	-390.79	0.00	518288.71	814950.92	N 32 25 18.20	W 103 26 47.79
	13100.00	90.80	359.64	10277.84	2719.73	2717.32	-391.42	0.00	518388.70	814950.29	N 32 25 19.19	W 103 26 47.79
	13200.00	90.80	359.64	10276.44	2819.72	2817.31	-392.04	0.00	518488.69	814949.67	N 32 25 20.18	W 103 26 47.78
	13300.00	90.80	359.64	10275.05	2919.71	2917.30	-392.67	0.00	518588.67	814949.04	N 32 25 21.17	W 103 26 47.78
	13400.00	90.80	359.64	10273.65	3019.70	3017.29	-393.30	0.00	518688.66	814948.41	N 32 25 22.16	W 103 26 47.78
	13500.00	90.80	359.64	10272.25	3119.69	3117.27	-393.92	0.00	518788.65	814947.79	N 32 25 23.14	W 103 26 47.78
	13600.00	90.80	359.64	10270.85	3219.68	3217.26	-394.55	0.00	518888.64	814947.16	N 32 25 24.13	W 103 26 47.77
	13700.00	90.80	359.64	10269.46	3319.67	3317.25	-395.17	0.00	518988.63	814946.54	N 32 25 25.12	W 103 26 47.77
	13800.00	90.80	359.64	10268.06	3419.66	3417.24	-395.80	0.00	519088.61	814945.91	N 32 25 26.11	W 103 26 47.77
	13900.00	90.80	359.64	10266.66	3519.65	3517.23	-396.42	0.00	519188.60	814945.29	N 32 25 27.10	W 103 26 47.77
	14000.00	90.80	359.64	10265.27	3619.64	3617.22	-397.05	0.00	519288.59	814944.66	N 32 25 28.09	W 103 26 47.76
	14100.00	90.80	359.64	10263.87	3719.63	3717.20	-397.67	0.00	519388.58	814944.03	N 32 25 29.08	W 103 26 47.76
	14200.00	90.80	359.64	10262.47	3819.62	3817.19	-398.30	0.00	519488.56	814943.41	N 32 25 30.07	W 103 26 47.76
	14300.00	90.80	359.64	10261.08	3919.61	3917.18	-398.93	0.00	519588.55	814942.78	N 32 25 31.06	W 103