

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 307731

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 30-025-49760
4. Property Code 322772	5. Property Name OUTLAND STATE UNIT	6. Well No. 012H

7. Surface Location

UL - Lot M	Section 11	Township 21S	Range 34E	Lot Idn M	Feet From 150	N/S Line S	Feet From 1225	E/W Line W	County Lea
---------------	---------------	-----------------	--------------	--------------	------------------	---------------	-------------------	---------------	---------------

8. Proposed Bottom Hole Location

UL - Lot K	Section 2	Township 21S	Range 34E	Lot Idn K	Feet From 2500	N/S Line S	Feet From 1980	E/W Line W	County Lea
---------------	--------------	-----------------	--------------	--------------	-------------------	---------------	-------------------	---------------	---------------

9. Pool Information

GRAMA RIDGE;BONE SPRING, NORTH	28434
--------------------------------	-------

Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3711
16. Multiple N	17. Proposed Depth 17992	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 12/1/2022
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	1700	1344	0
Int1	12.25	9.625	40	5475	1669	0
Prod	8.75	5.5	20	17992	1696	4500

Casing/Cement Program: Additional Comments

--

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.

Signature:

OIL CONSERVATION DIVISION

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: 2/11/2022 Expiration Date: 2/11/2024
Date: 2/8/2022 Phone: 817-953-3728	Conditions of Approval Attached

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49760	² Pool Code 28434	³ Pool Name GRAMA RIDGE; BONE SPRING, NORTH
⁴ Property Code 322772	⁵ Property Name OUTLAND STATE UNIT	⁶ Well Number 12H
⁷ OGRID No. 372137	⁸ Operator Name CHISHOLM ENERGY OPERATING, LLC	⁹ Elevation 3711.1

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
M	11	21 S	34 E		150	SOUTH	1225	WEST	LEA

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
K	2	21 S	34 E		2500	SOUTH	1980	WEST	LEA

¹² Dedicated Acres 240	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.

NMSP EAST (FT) N = 554890.89 E = 813842.92 NMSP EAST (FT) N = 554914.40 E = 816435.69 NMSP EAST (FT) N = 547039.02 E = 813908.88 NMSP EAST (FT) N = 541923.36 E = 815177.51 NMSP EAST (FT) N = 541760.42 E = 813954.02 NMSP EAST (FT) N = 541788.38 E = 816595.32 OUTLAND STATE UNIT 12H 150' FSL, 1225' FWL ELEV. = 3711.1' LAT. = 32.4866757°N (NAD83) LONG. = 103.4452365°W GRID AZ. = N007°29'18"W HORIZ. DIST. = 7680.00 FT LANDING POINT & FTP 100' FSL, 1980' FWL LAT. = 32.4865429°N LONG. = 103.4427887°W N = 541881.35 E = 815932.71 GRID AZ. TO LP S86°48'59"E HORIZ. DIST 756.52 FT	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. <i>Jennifer Elrod</i> 12/15/2021 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. OCTOBER 10, 2019 Date of Survey <i>FILIMON F. JARAMILLO</i> Signature and Seal of Professional Surveyor Certificate Number: FILIMON F. JARAMILLO, PLS 12797 SURVEY NO. 7687
--	--

Intent ☒ As Drilled ☐

API #

Operator Name:	Property Name:	Well Number
CHISHOLM ENERGY OPERATING, LLC	OUTLAND STATE UNIT	12H

Kick Off Point (KOP)

UL M	Section 11	Township 21S	Range 34E	Lot	Feet 150	From N/S SOUTH	Feet 1225	From E/W WEST	County LEA
Latitude 32.4866757					Longitude 103.4452365			NAD 83	

First Take Point (FTP)

UL N	Section 11	Township 21S	Range 34E	Lot	Feet 100	From N/S SOUTH	Feet 1980	From E/W WEST	County LEA
Latitude 32.4865429					Longitude 103.4427887			NAD 83	

Last Take Point (LTP)

UL K	Section 2	Township 21S	Range 34E	Lot	Feet 2500	From N/S SOUTH	Feet 1980	From E/W WEST	County LEA
Latitude 32.5076476					Longitude 103.4427930			NAD 83	

Is this well the defining well for the Horizontal Spacing Unit?

☐ YES

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

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 APD Conditions

Permit 307731

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: CHISHOLM ENERGY OPERATING, LLC [372137] 801 Cherry Street Fort Worth, TX 76102	API Number: 30-025-49760
	Well: OUTLAND STATE UNIT #012H

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	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

TVD ft-RKB	Geological Tops	Wellbore Sketch		Hole Size	Casing	Drilling Fluids	Cement	OH Logs/Evaluation
1,000'	1,787 Rustler		1,700'	17-1/2"	Surface: 13-3/8" 54.5# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 32 - 38 FV 4-6 PV 2-5 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 896 sks Top of Tail: 1,300' 14.8 ppg 1.33 cuft/sk 448 sks (100% Excess)	
2,000'	2,212 Salado			12-1/4"	Intermediate 1: 9-5/8" 40# J55 LTC	Saturated Brine 10.0 - 10.3 ppg 28 - 32 FV	Stage 1 Top of Lead: 3,600' 11.5 ppg 2.37 cuft/sk 354 sks - 100% XS Top of Tail: 4,975' 14.8 ppg 1.35 cuft/sk 307 sks - 100% XS Stage 2 Top of Lead: Surface 11.5 ppg 2.37 cuft/sk 1,008 sks - 200% XS	
3,000'	3,866 Yates							
4,000'	4,226 Capitan Reef			DV Tool & ECP @ 3,600'	8-3/4" Curve 8-1/2" Lateral	Production: 5-1/2" 20# P110 BTC	OBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Scavenger: Surface 10.5 ppg 2.00 cuft/sk 599 sks - 10% XS Top of Lead: 4,500' 11.3 ppg 2.62 cuft/sk 524 sks - 10% XS Top of Tail: 9,500' 14.5 ppg 1.20 cuft/sk 1,172 sks
5,000'	5,767 Delaware Mtn Gr	5,475'						
6,000'								
8,000'	8,298 Bone Spring							
9,000'	9,621 1st Bone Spring SS							
10,000'	10,240 2nd Bone Spring SS							
11,000'	11,094 1st Bone Spring SS							
								17,992' MD
								10,557' TVD

Chisholm Energy Operating, LLC

801 Cherry St., Suite 1200-Unit 20

Fort Worth, TX 76102

H2S Contingency Plan

Lea County, NM

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crew should then block entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are NO homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'
100 ppm H₂S concentration shall trigger activation of this plan

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training
 - in the: Detection of
 - H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm

Contacting Authorities

Chisholm Energy Operating personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Chisholm Energy Operating, LLC response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMERP).

Hydrogen Sulfide Drilling Operations Plan

1. All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - A. Characteristics of H2S
 - B. Physical effects and hazards
 - C. Principal and operation of H2S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30-minute pressure demand air packs.
2. H2S Detection and Alarm Systems:
 - a. H2S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary.
 - b. An audio alarm system will be installed on the derrick floor and in the top doghouse.
3. Windsock and/or wind streamers:
 - a. Windsock at mudpit area should be high enough to be visible.
 - b. Windsock on the rig floor and/ or top doghouse should be high enough to be visible.
4. Condition Flags and Signs
 - a. Warning sign on access road to location.
 - b. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H2S present in dangerous concentration). Only H2S trained and certified personnel

admitted to location.

5. Well control equipment:

- a. See exhibit BOP and Choke Diagrams

6. Communication:

- a. While working under masks chalkboards will be used for communication.
- b. Hand signals will be used where chalk board is inappropriate.
- c. Two-way radio will be used to communicate off location in case of emergency help is required. In most cases, cellular telephones will be available at most drilling foreman's trailer or living quarters.

7. Drill stem Testing:

No DSTs are planned at this time.

- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

Emergency Assistance Telephone List

Chisholm Energy Holdings, LLC

Chisholm Energy Operating, LLC

Vice President of Operations-Brad Grandstaff

Office: (817)953-6063

Office: (817)953-3150

Cell: (972)977-9221

Drilling Superintendent-Russell Simons

Cell: (830)285-7501

Production Superintendent-Paul Martinez

Cell: (325)206-1722

Public Safety:		911 or	
Lea County Sheriff's Department	Number:	(575)396-3611	
Lea County Emergency Management-Lorenzo Velasquez	Number:	(575)391-2983	
Lea County Fire Marshal			
Lorenzo Velasquez, Director	Number:	(575)391-2983	
Jeff Broom, Deputy Fire Marshal	Number:	(575)391-2988	
Fire Department:			
Knowles Fire Department	Number:	(505)392-2810	
City of Hobbs Fire Department	Number:	(505)397-9308	
Jal Volunteer Fire Department	Number:	(505)395-2221	
Lovington Fire Department	Number:	(575)396-2359	
Maljamar Fire Department	Number:	(505)676-4100	
Tatum Volunteer Fire Department	Number:	(505)398-3473	
Eunice Fire Department	Number:	(575)394-3258	
Hospital: Lea Regional Medical Center	Number:	(575)492-5000	
AirMed: Medevac	Number:	(888)303-9112	
Dept. of Public Safety	Number:	(505)827-9000	
New Mexico OCD-Dist. 1-Hobbs-	Office	Number:	(575)393-6161
	Emergency	Number:	(575)370-3186
Lea County Road Department	Number:	(575)391-2940	
NMDOT	Number:	(505)827-5100	

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
Outland State Unit 11-2 2BS 11H	30-025-49759	M-11-21S-34E	150 FSL, 1295 FWL	1800	1800	6500
Outland State Unit 11-2 2BS 12H	30-025-49760	M-11-21S-34E	150 FSL, 1225 FWL	1800	1800	6500

IV. Central Delivery Point Name: OUTLAND STATE UNIT 11-2 WEST 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
Outland State Unit 11-2 2BS 11H	30-025-49759	11/01/2022	11/29/2022	03/10/2023	04/12/2023	04/15/2023
Outland State Unit 11-2 2BS 12H	30-025-49760	12/01/2022	12/29/2022	03/10/2023	04/12/2023	04/15/2023

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.

Page 8

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:	02/06/2022
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.



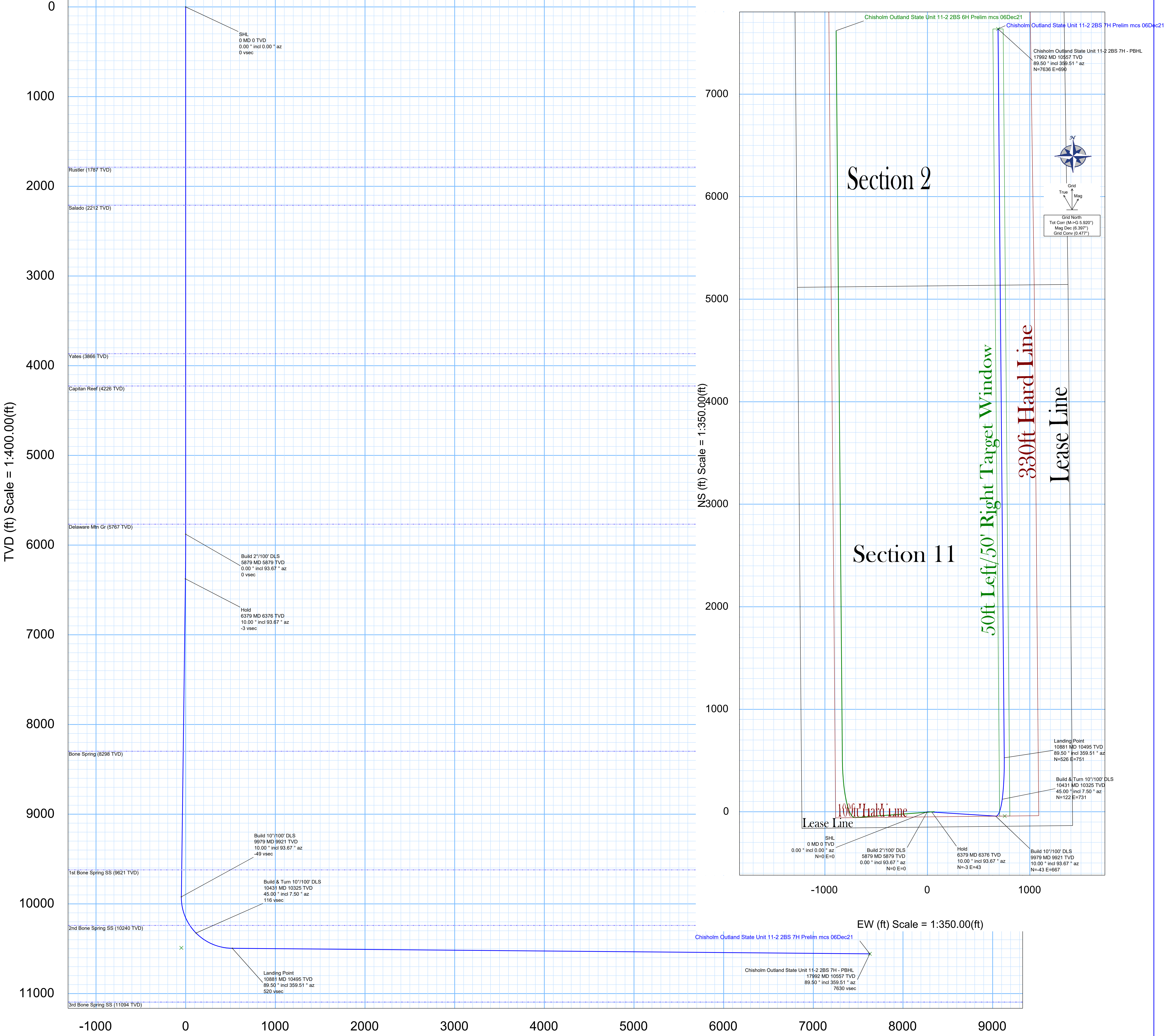
Chisholm Energy Operating, LLC



Borehole:	Well:	Field:	Structure:
Chisholm Outland State Unit 11-2 2BS 7H	Chisholm Outland State Unit 11-2 2BS 7H	NM Lea County (NAD 83)	Chisholm Outland State Unit 11-2 2BS Pad

Gravity & Magnetic Parameters				Surface Location				Miscellaneous			
Model:	HDGM 2021	Dip:	60.261°	Date:	06-Dec-2021	Lat:	N 32 29 12.03	Northings:	541923.37ftUS	Grid Conv:	0.477°
MagDec:	6.397°	FS:	47819.741nT	Gravity FS:	998.489mgm (9.80665 Based)	Lon:	W 103 26 42.85	Easting:	815177.52ftUS	Scale Fact:	0.99999497
								Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21			
								Slot: Chisholm Outland State Unit 11-2 TVD Ref: RKB(3737.1ft above MSL)			
								Plan: Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21			

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	1787.00	0.00	93.67	1787.00	0.00	0.00	0.00	0.00
Salado	2212.00	0.00	93.67	2212.00	0.00	0.00	0.00	0.00
Yates	3866.00	0.00	93.67	3866.00	0.00	0.00	0.00	0.00
Capitan Reef	4226.00	0.00	93.67	4226.00	0.00	0.00	0.00	0.00
Delaware Mtn Gr	5767.00	0.00	93.67	5767.00	0.00	0.00	0.00	0.00
Build 2"/100' DLS	5878.50	0.00	93.67	5878.50	0.00	0.00	0.00	0.00
Hold	6378.50	10.00	93.67	6375.97	-3.16	-2.79	43.43	2.00
Bone Spring	8330.19	10.00	93.67	8298.00	-27.74	-24.48	381.65	0.00
1st Bone Spring SS	9673.60	10.00	93.67	9621.00	-44.67	-39.41	614.45	0.00
Build 10"/100' DLS	9978.50	10.00	93.67	9921.27	-48.51	-42.80	667.29	0.00
2nd Bone Spring SS	10320.16	34.38	12.25	10240.00	46.25	52.40	718.90	10.00
Build & Turn 10"/100' DLS	10430.56	45.00	7.50	10324.85	115.52	121.77	730.64	10.00
Landing Point	10881.15	89.50	359.51	10494.98	519.61	526.05	750.54	10.00
Chisholm Outland State Unit 11-2 2BS 7H - PBHL	17991.87	89.50	359.51	10556.91	7630.06	7636.24	689.75	0.00
3rd Bone Spring SS	NaN			11094.00				
Wolfcamp	NaN			11327.00				
Strawn	NaN			11993.00				



Vertical Section (ft) Azim = 359.51° Scale = 1:400.00(ft) Origin = 0N/-S, 0E/-W



Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21 Anti-Collision Summary Report

Analysis Date-24hr Time: December 06, 2021 - 13:57

Client: Chisholm Energy Operating, LLC

Field: NM Lea County (NAD 83)

Structure: Chisholm Outland State Unit 11-2 2BS Pad

Slot: Chisholm Outland State Unit 11-2 2BS 7H

Well: Chisholm Outland State Unit 11-2 2BS 7H

Borehole: Chisholm Outland State Unit 11-2 2BS 7H

Scan MD Range: 0.00ft ~ 17991.87ft

Analysis Method: 3D Least Distance

Reference Trajectory: Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21 (Def Plan)

Depth Interval: Every 10.00 Measured Depth (ft)

Rule Set: NAL Procedure: D&M AntiCollision Standard S002

Min Pts: All local minima indicated.

Version / Patch: 2.10.824.0

Database \ Project: us1455vsm3172\drilling -NM Lea County 2.10

Trajectory Error Model: ISCSA0 3-D 95.000% Confidence 2.7955 sigma, for subject well. For offset wells, error model version is specified with each well respectively.

Offset Trajectories Summary

Offset Selection Criteria

Wellhead distance scan: Restricted within 59002.37 ft

Selection filters: Definitive Surveys - Definitive Plans - Definitive surveys exclude definitive plans

- All Non-Def Surveys when no Def-Survey is set in a borehole - All Non-Def Plans when no Def-Plan is set in a borehole

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		

Chisholm Outland State Unit 11-2 2BS 6H Prelim mcs 06Dec21 (Def Plan)

Fail Major

69.88	32.81	67.38	37.07	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
69.88	32.81	67.37	37.07	27567.98	MAS = 10.00 (m)	26.00	26.00					WRP
69.88	32.81	53.88	37.07	4.99	MAS = 10.00 (m)	2210.00	2210.00	OSF<5.00				Enter Alert
57.01	57.83	17.61	-0.82	1.48	OSF1.50	6120.00	6119.71		OSF<1.50			Enter Minor
38.79	57.71	-0.54	-18.92	0.99	OSF1.50	6230.00	6229.12			OSF<1.00		Enter Major
1.79	57.89	-37.67	-56.12	-0.02	OSF1.50	6380.00	6377.44					MinPts
37.87	57.14	-1.05	-19.26	0.97	OSF1.50	6500.00	6495.62					Exit Major
55.23	57.01	16.39	-1.78	1.45	OSF1.50	6550.00	6544.86		OSF>1.50			Exit Minor
181.67	57.07	142.79	124.60	4.92	OSF1.50	6890.00	6879.69	OSF>5.00				Exit Alert
1580.01	476.60	1261.44	1103.41	4.99	OSF1.50	15280.00	10533.29	OSF<5.00				Enter Alert
1579.95	729.94	1092.49	850.01	3.25	OSF1.50	17980.00	10556.81					MinPt-CtCt
1579.95	730.93	1091.83	849.02	3.25	OSF1.50	17991.87	10556.91					MinPts

Chisholm Outland State Unit 11-2 1BS 1H ST01 0ft to 17054ft
Definitive (Def Survey)

Warning Alert

2428.54	32.81	2426.04	2395.73	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
2428.33	32.81	2425.81	2395.52	108829.78	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF
2428.30	32.81	2425.78	2395.49	136584.48	MAS = 10.00 (m)	26.00	26.00					WRP
2423.71	32.81	2417.19	2390.91	600.95	MAS = 10.00 (m)	960.00	960.00					MinPts
2423.75	32.81	2416.39	2390.95	497.60	MAS = 10.00 (m)	1130.00	1130.00					MinPts
2423.99	32.81	2416.03	2391.19	442.87	MAS = 10.00 (m)	1270.00	1270.00					MINPT-O-EOU
2476.05	32.81	2458.45	2443.24	163.83	MAS = 10.00 (m)	3440.00	3440.00					MINPT-O-EOU
2545.05	32.83	2522.32	2512.21	125.73	OSF1.50	4580.00	4580.00					MinPt-O-SF
1698.21	49.51	1663.87	1648.70	55.83	OSF1.50	9010.00	8967.49					MinPt-O-SF
1506.43	61.21	1464.24	1445.22	39.50	OSF1.50	9830.00	9775.03					MinPt-CtCt
1506.47	61.21	1464.22	1445.18	39.44	OSF1.50	9840.00	9784.88					MinPts
1515.49	62.15	1472.74	1453.35	38.97	OSF1.50	10000.00	9942.45					MinPt-O-SF
1565.65	82.06	1509.93	1483.60	29.68	OSF1.50	11140.00	10497.24					MinPt-CtCt
1567.51	95.87	1502.57	1471.65	25.30	OSF1.50	11350.00	10499.06					MinPt-CtCt
1577.91	132.71	1488.37	1445.17	18.23	OSF1.50	11880.00	10503.68					MINPT-O-EOU
1581.07	145.06	1483.31	1436.01	16.68	OSF1.50	12020.00	10504.90					MinPt-CtCt
1549.50	296.37	1350.84	1253.13	7.91	OSF1.50	13950.00	10521.71					MinPt-CtCt
1548.65	331.00	1326.91	1217.66	7.07	OSF1.50	14400.00	10525.63					MinPt-CtCt
1567.68	373.86	1317.38	1193.82	6.33	OSF1.50	14980.00	10530.68					MINPT-O-EOU
1575.16	411.99	1299.42	1163.17	5.77	OSF1.50	15420.00	10534.51					MinPt-CtCt
1575.76	438.28	1282.49	1137.48	5.42	OSF1.50	15730.00	10537.21					MinPt-CtCt
1580.09	451.93	1277.73	1128.15	5.27	OSF1.50	15930.00	10538.95					MINPT-O-EOU
1586.63	472.52	1270.58	1114.14	5.06	OSF1.50	16190.00	10541.22					MinPt-CtCt
1588.34	479.20	1267.82	1109.14	4.99	OSF1.50	16300.00	10542.18	OSF<5.00				Enter Alert
1592.97	487.16	1267.13	1105.81	4.93	OSF1.50	16420.00	10543.22					MINPT-O-EOU
1600.43	535.93	1242.11	1064.51	4.50	OSF1.50	17070.00	10548.88					MinPt-CtCt
1614.66	603.20	1211.52	1011.46	4.03	OSF1.50	17991.87	10556.91					MinPts

Chisholm Outland State Unit 11-2 1BS 1H 0ft to 11895ft
Definitive (Def Survey)

Pass

2428.54	32.81	2426.04	2395.73	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
2428.33	32.81	2425.81	2395.52	108829.78	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF
2428.30	32.81	2425.78	2395.49	136584.48	MAS = 10.00 (m)	26.00	26.00					WRP
2423.71	32.81	2417.19	2390.91	600.95	MAS = 10.00 (m)	960.00	960.00					MinPts
2423.75	32.81	2416.39	2390.95	497.60	MAS = 10.00 (m)	1130.00	1130.00					MinPts
2423.99	32.81	2416.03	2391.19	442.87	MAS = 10.00 (m)	1270.00	1270.00					MINPT-O-EOU
2476.05	32.81	2458.45	2443.24	163.83	MAS = 10.00 (m)	3440.00	3440.00					MINPT-O-EOU
2545.05	32.83	2522.32	2512.21	125.73	OSF1.50	4580.00	4580.00					MinPt-O-SF
1627.67	57.36	1487.97	1470.31	43.13	OSF1.50	10400.00	10302.69					MinPt-CtCt
1527.75	57.73	1487.81	1470.03	42.83	OSF1.50	10420.00	10317.32					MINPT-O-EOU
1528.10	58.14	1487.88	1469.96	42.50	OSF1.50	10440.00	10331.47					MinPt-O-ADP
2016.23	112.14	1940.63	1904.09	27.55	OSF1.50	11650.00	10501.68					MinPt-O-SF
7827.55	155.77	7722.87	7671.78	76.58	OSF1.50	17991.87	10556.91					TD

Chisholm Outland WCA State Unit 11-2 5H MWD Surveys 0ft to 15851ft (Def Survey)

Pass

2372.28	32.81	2370.47	2339.47	N/A	MAS = 10.00 (m)	0.00	0.00					Surface
2372.07	32.81	2370.25	2339.27	112590.47	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF
2372.05	32.81	2370.22	2339.24	149212.68	MAS = 10.00 (m)	26.00	26.00					WRP
2372.03	32.81	2370.19	2339.22	76197.23	MAS = 10.00 (m)	40.00	40.00					MinPts
2372.42	32.81	2369.23	2339.61	1715.74	MAS = 10.00 (m)	330.00	330.00					MINPT-O-EOU
2364.35	32.81	2353.62	2331.54	264.81	MAS = 10.00 (m)	1990.00	1990.00					MinPts
2364.42	32.81	2353.59	2331.61	262.23	MAS = 10.00 (m)	2010.00	2010.00					MINPT-O-EOU
2538.94	38.66	2512.56	2500.27	103.26	OSF1.50	5480.00	5480.00					MinPts

Offset Trajectory	Separation			Allow Dev. (ft)	Sep. Fact.	Controlling Rule	Reference Trajectory		Risk Level			Alert	Status
	Cl-Cl (ft)	MAS (ft)	EOU (ft)				MD (ft)	TVD (ft)	Alert	Minor	Major		
	2538.90	39.02	2512.34	2499.88	101.84	OSF1.50	5560.00	5560.00				MinPt-CiCi	
	2538.95	39.15	2512.30	2499.80	101.49	OSF1.50	5580.00	5580.00				MINPT-O-EOU	
	2539.00	39.22	2512.31	2499.79	101.32	OSF1.50	5590.00	5590.00				MinPt-O-ADP	
	2551.07	41.09	2523.12	2509.97	96.93	OSF1.50	5900.00	5900.00				MinPt-O-SF	
	2024.09	55.95	1985.89	1968.14	56.93	OSF1.50	10460.00	10345.14				MinPt-CiCi	
	2024.21	56.37	1985.74	1967.84	56.48	OSF1.50	10480.00	10358.29				MINPT-O-EOU	
	2024.58	56.81	1985.82	1967.77	56.03	OSF1.50	10500.00	10370.92				MinPt-O-ADP	
	2211.98	91.08	2150.61	2120.90	37.20	OSF1.50	11220.00	10497.93				MinPt-O-SF	
	2213.59	93.24	2151.01	2120.35	36.07	OSF1.50	11330.00	10498.89				MinPt-CiCi	
	2229.97	172.47	2114.58	2057.51	19.53	OSF1.50	12440.00	10508.56				MINPT-O-EOU	
	2245.78	192.34	2117.14	2053.45	17.62	OSF1.50	12710.00	10510.91				MinPt-O-ADP	
	2300.40	239.28	2140.59	2061.17	14.49	OSF1.50	13320.00	10516.22				MINPT-O-EOU	
	2283.31	371.27	2035.44	1912.10	9.25	OSF1.50	14980.00	10530.68				MinPt-CiCi	
	2285.02	376.61	2033.51	1908.38	9.13	OSF1.50	15070.00	10531.46				MINPT-O-EOU	
	2286.89	378.86	2033.90	1908.03	9.08	OSF1.50	15110.00	10531.81				MinPt-O-ADP	
	2326.70	392.70	2064.48	1933.99	8.91	OSF1.50	15430.00	10534.60				MinPt-CiCi	
	3777.13	353.94	3540.75	3423.19	16.06	OSF1.50	17991.87	10556.91				TD	

Chisholm Outland WCA State
Unit 11-2 5H ST01 MWD
Surveys 11766ft to 18900ft MD
(Def Survey)

Pass

2372.28	32.81	2370.47	2339.47	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
2372.07	32.81	2370.25	2339.27	112590.47	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF	
2372.05	32.81	2370.22	2339.24	149212.68	MAS = 10.00 (m)	26.00	26.00					WRP	
2372.03	32.81	2370.19	2339.22	76197.23	MAS = 10.00 (m)	40.00	40.00					MinPts	
2372.42	32.81	2369.23	2339.61	1715.74	MAS = 10.00 (m)	330.00	330.00					MINPT-O-EOU	
2364.35	32.81	2353.62	2331.54	264.81	MAS = 10.00 (m)	1990.00	1990.00					MinPts	
2364.42	32.81	2353.59	2331.61	262.23	MAS = 10.00 (m)	2010.00	2010.00					MINPT-O-EOU	
2538.94	38.66	2512.55	2500.27	103.26	OSF1.50	5480.00	5480.00					MinPts	
2538.90	39.02	2512.34	2499.88	101.84	OSF1.50	5560.00	5560.00					MinPt-CiCi	
2538.95	39.15	2512.30	2499.80	101.49	OSF1.50	5580.00	5580.00					MINPT-O-EOU	
2539.00	39.22	2512.31	2499.79	101.32	OSF1.50	5590.00	5590.00					MinPt-O-ADP	
2551.07	41.09	2523.12	2509.97	96.93	OSF1.50	5900.00	5900.00					MinPt-O-SF	
2024.09	55.95	1985.89	1968.14	56.93	OSF1.50	10460.00	10345.14					MinPt-CiCi	
2024.21	56.37	1985.74	1967.84	56.48	OSF1.50	10480.00	10358.29					MINPT-O-EOU	
2024.58	56.81	1985.82	1967.77	56.03	OSF1.50	10500.00	10370.92					MinPt-O-ADP	
2252.70	95.84	2188.19	2156.86	35.91	OSF1.50	11310.00	10498.72					MinPt-O-SF	
2274.61	100.08	2207.48	2174.53	34.50	OSF1.50	11460.00	10500.02					MINPT-O-EOU	
2285.34	113.35	2209.36	2171.99	30.56	OSF1.50	11650.00	10501.68					MinPt-O-ADP	
2304.94	136.47	2213.55	2168.47	25.55	OSF1.50	11950.00	10504.29					MINPT-O-EOU	
2335.94	179.24	2216.02	2156.69	19.68	OSF1.50	12500.00	10509.08					MINPT-O-EOU	
2340.49	184.69	2216.95	2155.81	19.13	OSF1.50	12580.00	10509.78					MinPt-O-ADP	
2401.69	332.70	2179.48	2068.99	10.86	OSF1.50	14440.00	10525.98					MinPt-CiCi	
2289.07	528.02	1936.64	1761.05	6.51	OSF1.50	16860.00	10547.05					MinPt-CiCi	
2298.00	605.32	1894.04	1692.68	5.70	OSF1.50	17810.00	10555.33					MinPt-CiCi	
2297.12	620.66	1882.93	1676.46	5.56	OSF1.50	17991.87	10556.91					MinPts	

Chisholm Outland State Unit 11-
2 2BS 2H MWD 0-17844' MD
(Def Survey)

Pass

2318.60	32.81	2316.10	2285.79	N/A	MAS = 10.00 (m)	0.00	0.00					Surface	
2318.39	32.81	2315.87	2285.58	106034.57	MAS = 10.00 (m)	20.00	20.00					MinPt-O-SF	
2318.36	32.81	2315.84	2285.55	139137.21	MAS = 10.00 (m)	26.00	26.00					WRP	
2318.35	32.81	2315.81	2285.54	74450.60	MAS = 10.00 (m)	40.00	40.00					MinPts	
2318.45	32.81	2314.72	2285.65	1875.66	MAS = 10.00 (m)	330.00	330.00					MinPts	
2318.94	32.81	2314.12	2286.13	998.57	MAS = 10.00 (m)	580.00	580.00					MINPT-O-EOU	
2733.63	42.69	2704.33	2690.93	101.93	OSF1.50	5900.00	5900.00					MinPt-O-SF	
2318.07	54.67	2280.63	2263.39	67.14	OSF1.50	10190.00	10125.58					MinPt-CiCi	
2318.07	54.70	2280.62	2263.36	67.10	OSF1.50	10200.00	10134.80					MinPts	
2626.64	148.62	2526.72	2478.02	26.94	OSF1.50	11840.00	10503.33					MinPt-CiCi	
2622.99	329.10	2402.76	2293.89	12.04	OSF1.50	13880.00	10521.10					MinPt-CiCi	
2642.05	413.10	2365.82	2228.95	9.64	OSF1.50	14800.00	10529.11					MinPt-CiCi	
2653.11	484.64	2329.19	2168.47	8.25	OSF1.50	15580.00	10535.91					MinPt-CiCi	
2630.83	654.21	2193.85	1976.62	6.05	OSF1.50	17420.00	10551.93					MinPt-CiCi	
2639.30	706.21	2167.66	1933.09	5.62	OSF1.50	17991.87	10556.91					MinPts	



Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21 Proposal

Geodetic Report

(Def Plan)

Report Date: December 06, 2021 - 01:56 PM
Client: Chisholm Energy Operating, LLC
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Outland State Unit 11-2 2BS Pad / Chisholm Outland State Unit 11-2 2BS 7H
Well: Chisholm Outland State Unit 11-2 2BS 7H
Borehole: Chisholm Outland State Unit 11-2 2BS 7H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21
Survey Date: December 06, 2021
Tort / AHD / DDI / ERD Ratio: 100.265 ° / 8368.879 ft / 6.155 / 0.793
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 29' 12.03252", W 103° 26' 42.85140"
Location Grid N/E Y/X: N 541923.373 ftUS, E 815177.515 ftUS
CRS Grid Convergence Angle: 0.4770 °
Grid Scale Factor: 0.99999497
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.510 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3737.100 ft above MSL
Seabed / Ground Elevation: 3711.100 ft above MSL
Magnetic Declination: 6.397 °
Total Gravity Field Strength: 998.4886mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47819.741 nT
Magnetic Dip Angle: 60.261 °
Declination Date: December 06, 2021
Magnetic Declination Model: HDGM 2021
North Reference: Grid North
Grid Convergence Used: 0.4770 °
Total Corr Mag North->Grid North: 5.9197 °
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	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Rustler	1787.00	0.00	93.67	1787.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Salado	2212.00	0.00	93.67	2212.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Yates	3866.00	0.00	93.67	3866.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Capitan Reef	4226.00	0.00	93.67	4226.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Delaware Mtn Gr	5767.00	0.00	93.67	5767.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Build 2"/100'												
DLS	5878.50	0.00	93.67	5878.50	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
Hold	6378.50	10.00	93.67	6375.97	-3.16	-2.79	43.43	2.00	541920.59	815220.95	N 32 29 12.00	W 103 26 42.34
Bone Spring	8330.19	10.00	93.67	8298.00	-27.74	-24.48	381.65	0.00	541898.89	815559.16	N 32 29 11.76	W 103 26 38.40
1st Bone Spring SS	9673.60	10.00	93.67	9621.00	-44.67	-39.41	614.45	0.00	541883.96	815791.96	N 32 29 11.59	W 103 26 35.68
Build 10"/100'												
DLS	9978.50	10.00	93.67	9921.27	-48.51	-42.80	667.29	0.00	541880.57	815844.80	N 32 29 11.55	W 103 26 35.07
2nd Bone Spring SS	10320.16	34.38	12.25	10240.00	46.25	52.40	718.90	10.00	541975.77	815896.41	N 32 29 12.49	W 103 26 34.45
Build & Turn 10"/100' DLS	10430.56	45.00	7.50	10324.85	115.52	121.77	730.64	10.00	542045.14	815908.15	N 32 29 13.18	W 103 26 34.31
Landing Point Chisholm	10881.15	89.50	359.51	10494.98	519.61	526.05	750.54	10.00	542449.42	815928.05	N 32 29 17.18	W 103 26 34.04
Outland State Unit 11-2 2BS 7H - PBHL	17991.87	89.50	359.51	10556.91	7630.06	7636.24	689.75	0.00	549559.56	815867.26	N 32 30 27.53	W 103 26 34.05

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 Outland State Unit 11-2 2BS 7H / Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs
	1	26.000	17991.867	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG	Chisholm Outland State Unit 11-2 2BS 7H / Chisholm Outland State



Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21 Proposal

Geodetic Report

(Def Plan)

Report Date: December 06, 2021 - 01:56 PM
Client: Chisholm Energy Operating, LLC
Field: NM Lea County (NAD 83)
Structure / Slot: Chisholm Outland State Unit 11-2 2BS Pad / Chisholm Outland State Unit 11-2 2BS 7H
Well: Chisholm Outland State Unit 11-2 2BS 7H
Borehole: Chisholm Outland State Unit 11-2 2BS 7H
UWI / API#: Unknown / Unknown
Survey Name: Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs 06Dec21
Survey Date: December 06, 2021
Tort / AHD / DDI / ERD Ratio: 100.265 ° / 8368.879 ft / 6.155 / 0.793
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 29' 12.03252", W 103° 26' 42.85140"
Location Grid N/E Y/X: N 541923.373 ftUS, E 815177.515 ftUS
CRS Grid Convergence Angle: 0.4770 °
Grid Scale Factor: 0.99999497
Version / Patch: 2.10.824.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 359.510 ° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3737.100 ft above MSL
Seabed / Ground Elevation: 3711.100 ft above MSL
Magnetic Declination: 6.397 °
Total Gravity Field Strength: 998.4886mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47819.741 nT
Magnetic Dip Angle: 60.261 °
Declination Date: December 06, 2021
Magnetic Declination Model: HDGM 2021
North Reference: Grid North
Grid Convergence Used: 0.4770 °
Total Corr Mag North->Grid North: 5.9197 °
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	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	100.00	0.00	93.67	100.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	200.00	0.00	93.67	200.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	300.00	0.00	93.67	300.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	400.00	0.00	93.67	400.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	500.00	0.00	93.67	500.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	600.00	0.00	93.67	600.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	700.00	0.00	93.67	700.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	800.00	0.00	93.67	800.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	900.00	0.00	93.67	900.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1000.00	0.00	93.67	1000.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1100.00	0.00	93.67	1100.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1200.00	0.00	93.67	1200.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1300.00	0.00	93.67	1300.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1400.00	0.00	93.67	1400.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
	1500.00	0.00	93.67	1500.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	1600.00	0.00	93.67	1600.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	1700.00	0.00	93.67	1700.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	1800.00	0.00	93.67	1800.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	1900.00	0.00	93.67	1900.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2000.00	0.00	93.67	2000.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2100.00	0.00	93.67	2100.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2200.00	0.00	93.67	2200.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2300.00	0.00	93.67	2300.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2400.00	0.00	93.67	2400.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2500.00	0.00	93.67	2500.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2600.00	0.00	93.67	2600.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2700.00	0.00	93.67	2700.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2800.00	0.00	93.67	2800.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	2900.00	0.00	93.67	2900.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3000.00	0.00	93.67	3000.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3100.00	0.00	93.67	3100.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3200.00	0.00	93.67	3200.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3300.00	0.00	93.67	3300.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3400.00	0.00	93.67	3400.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3500.00	0.00	93.67	3500.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3600.00	0.00	93.67	3600.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3700.00	0.00	93.67	3700.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3800.00	0.00	93.67	3800.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	3900.00	0.00	93.67	3900.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4000.00	0.00	93.67	4000.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4100.00	0.00	93.67	4100.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4200.00	0.00	93.67	4200.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4300.00	0.00	93.67	4300.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4400.00	0.00	93.67	4400.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4500.00	0.00	93.67	4500.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4600.00	0.00	93.67	4600.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4700.00	0.00	93.67	4700.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4800.00	0.00	93.67	4800.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	4900.00	0.00	93.67	4900.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5000.00	0.00	93.67	5000.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5100.00	0.00	93.67	5100.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5200.00	0.00	93.67	5200.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5300.00	0.00	93.67	5300.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5400.00	0.00	93.67	5400.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5500.00	0.00	93.67	5500.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5600.00	0.00	93.67	5600.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
	5700.00	0.00	93.67	5700.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85
5800.00	0.00	93.67	5800.00	0.00	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
Build 2"/100' DLS	5878.50	0.00	93.67	5878.50	0.00	0.00	0.00	0.00	541923.37	815177.52	N 32 29 12.03	W 103 26 42.85	
Hold	5900.00	0.43	93.67	5900.00	-0.01	-0.01	0.08	2.00	541923.37	815177.60	N 32 29 12.03	W 103 26 42.85	
	6000.00	2.43	93.67	5999.96	-0.19	-0.16	2.57	2.00	541923.21	815180.09	N 32 29 12.03	W 103 26 42.82	
	6100.00	4.43	93.67	6099.78	-0.62	-0.55	8.54	2.00	541922.83	815186.06	N 32 29 12.03	W 103 26 42.75	
	6200.00	6.43	93.67	6199.33	-1.31	-1.15	17.98	2.00	541922.22	815195.50	N 32 29 12.02	W 103 26 42.64	
	6300.00	8.43	93.67	6298.48	-2.25	-1.98	30.89	2.00	541921.39	815208.40	N 32 29 12.01	W 103 26 42.49	
	6378.50	10.00	93.67	6375.97	-3.16	-2.79	43.43	2.00	541920.59	815220.95	N 32 29 12.00	W 103 26 42.34	
	6400.00	10.00	93.67	6397.14	-3.43	-3.03	47.16	0.00	541920.35	815224.67	N 32 29 12.00	W 103 26 42.30	
	6500.00	10.00	93.67	6495.62	-4.69	-4.14	64.49	0.00	541919.24	815242.00	N 32 29 11.99	W 103 26 42.10	
	6600.00	10.00	93.67	6594.10	-5.95	-5.25	81.82	0.00	541918.12	815259.33	N 32 29 11.97	W 103 26 41.90	
	6700.00	10.00	93.67	6692.58	-7.21	-6.36	99.15	0.00	541917.01	815276.66	N 32 29 11.96	W 103 26 41.69	
	6800.00	10.00	93.67	6791.06	-8.47	-7.47	116.48	0.00	541915.90	815293.99	N 32 29 11.95	W 103 26 41.49	
	6900.00	10.00	93.67	6889.54	-9.73	-8.58	133.81	0.00	541914.79	815311.32	N 32 29 11.94	W 103 26 41.29	
	7000.00	10.00	93.67	6988.02	-10.99	-9.69	151.13	0.00	541913.68	815328.65	N 32 29 11.92	W 103 26 41.09	
	7100.00	10.00	93.67	7086.50	-12.25	-10.81	168.46	0.00	541912.57	815345.98	N 32 29 11.91	W 103 26 40.89	

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 ° ' ")
	7400.00	10.00	93.67	7381.95	-16.03	-14.14	220.45	0.00	541909.23	815397.97	N 32 29 11.87	W 103 26 40.28
	7500.00	10.00	93.67	7480.43	-17.29	-15.25	237.78	0.00	541908.12	815415.29	N 32 29 11.86	W 103 26 40.08
	7600.00	10.00	93.67	7578.91	-18.55	-16.36	255.11	0.00	541907.01	815432.62	N 32 29 11.85	W 103 26 39.87
	7700.00	10.00	93.67	7677.39	-19.80	-17.48	272.44	0.00	541905.90	815449.95	N 32 29 11.84	W 103 26 39.67
	7800.00	10.00	93.67	7775.87	-21.06	-18.59	289.77	0.00	541904.79	815467.28	N 32 29 11.82	W 103 26 39.47
	7900.00	10.00	93.67	7874.35	-22.32	-19.70	307.10	0.00	541903.67	815484.61	N 32 29 11.81	W 103 26 39.27
	8000.00	10.00	93.67	7972.83	-23.58	-20.81	324.43	0.00	541902.56	815501.94	N 32 29 11.80	W 103 26 39.07
	8100.00	10.00	93.67	8071.31	-24.84	-21.92	341.76	0.00	541901.45	815519.27	N 32 29 11.79	W 103 26 38.86
	8200.00	10.00	93.67	8169.79	-26.10	-23.03	359.09	0.00	541900.34	815536.60	N 32 29 11.78	W 103 26 38.66
	8300.00	10.00	93.67	8268.27	-27.36	-24.15	376.42	0.00	541899.23	815553.93	N 32 29 11.76	W 103 26 38.46
	8400.00	10.00	93.67	8366.75	-28.62	-25.26	393.75	0.00	541898.12	815571.26	N 32 29 11.75	W 103 26 38.26
	8500.00	10.00	93.67	8465.23	-29.88	-26.37	411.07	0.00	541897.00	815588.59	N 32 29 11.74	W 103 26 38.06
	8600.00	10.00	93.67	8563.72	-31.14	-27.48	428.40	0.00	541895.89	815605.92	N 32 29 11.73	W 103 26 37.85
	8700.00	10.00	93.67	8662.20	-32.40	-28.59	445.73	0.00	541894.78	815623.24	N 32 29 11.71	W 103 26 37.65
	8800.00	10.00	93.67	8760.68	-33.66	-29.70	463.06	0.00	541893.67	815640.57	N 32 29 11.70	W 103 26 37.45
	8900.00	10.00	93.67	8859.16	-34.92	-30.81	480.39	0.00	541892.56	815657.90	N 32 29 11.69	W 103 26 37.25
	9000.00	10.00	93.67	8957.64	-36.18	-31.93	497.72	0.00	541891.45	815675.23	N 32 29 11.68	W 103 26 37.04
	9100.00	10.00	93.67	9056.12	-37.44	-33.04	515.05	0.00	541890.34	815692.56	N 32 29 11.66	W 103 26 36.84
	9200.00	10.00	93.67	9154.60	-38.70	-34.15	532.38	0.00	541889.22	815709.89	N 32 29 11.65	W 103 26 36.64
	9300.00	10.00	93.67	9253.08	-39.96	-35.26	549.71	0.00	541888.11	815727.22	N 32 29 11.64	W 103 26 36.44
	9400.00	10.00	93.67	9351.56	-41.22	-36.37	567.04	0.00	541887.00	815744.55	N 32 29 11.63	W 103 26 36.24
	9500.00	10.00	93.67	9450.04	-42.48	-37.48	584.37	0.00	541885.89	815761.88	N 32 29 11.61	W 103 26 36.03
	9600.00	10.00	93.67	9548.52	-43.74	-38.60	601.70	0.00	541884.78	815779.21	N 32 29 11.60	W 103 26 35.83
	9700.00	10.00	93.67	9647.00	-45.00	-39.71	619.03	0.00	541883.67	815796.54	N 32 29 11.59	W 103 26 35.63
	9800.00	10.00	93.67	9745.48	-46.26	-40.82	636.36	0.00	541882.55	815813.87	N 32 29 11.58	W 103 26 35.43
	9900.00	10.00	93.67	9843.97	-47.52	-41.93	653.68	0.00	541881.44	815831.20	N 32 29 11.56	W 103 26 35.22
Build 10°/100' DLS	9978.50	10.00	93.67	9921.27	-48.51	-42.80	667.29	0.00	541880.57	815844.80	N 32 29 11.55	W 103 26 35.07
	10000.00	10.00	81.27	9942.45	-48.38	-42.64	671.00	10.00	541880.73	815848.51	N 32 29 11.56	W 103 26 35.02
	10100.00	14.83	38.85	10040.27	-37.20	-31.32	687.65	10.00	541892.05	815865.16	N 32 29 11.67	W 103 26 34.83
	10200.00	23.20	21.55	10134.80	-8.98	-2.97	702.95	10.00	541920.41	815880.46	N 32 29 11.95	W 103 26 34.65
	10300.00	32.46	13.40	10223.17	35.44	41.57	716.43	10.00	541964.95	815893.94	N 32 29 12.38	W 103 26 34.48
	10400.00	42.04	8.61	10302.69	94.71	100.94	727.70	10.00	542024.31	815905.21	N 32 29 12.97	W 103 26 34.35
Build & Turn 10°/100' DLS	10430.56	45.00	7.50	10324.85	115.52	121.77	730.64	10.00	542045.14	815908.15	N 32 29 13.18	W 103 26 34.31
	10500.00	51.82	5.77	10370.92	167.03	173.33	736.60	10.00	542096.70	815914.11	N 32 29 13.69	W 103 26 34.24
	10600.00	61.68	3.77	10425.68	250.20	256.57	743.46	10.00	542179.94	815920.97	N 32 29 14.51	W 103 26 34.15
	10700.00	71.57	2.12	10465.31	341.72	348.13	748.12	10.00	542271.50	815925.63	N 32 29 15.42	W 103 26 34.08
	10800.00	81.47	0.65	10488.60	438.79	445.22	750.44	10.00	542368.59	815927.95	N 32 29 16.38	W 103 26 34.05
Landing Point	10881.15	89.50	359.51	10494.98	519.61	526.05	750.54	10.00	542449.42	815928.05	N 32 29 17.18	W 103 26 34.04
	10900.00	89.50	359.51	10495.15	538.46	544.90	750.38	0.00	542468.27	815927.89	N 32 29 17.36	W 103 26 34.04
	11000.00	89.50	359.51	10496.02	638.46	644.89	749.53	0.00	542568.26	815927.04	N 32 29 18.35	W 103 26 34.04
	11100.00	89.50	359.51	10496.89	738.45	744.88	748.67	0.00	542668.25	815926.18	N 32 29 19.34	W 103 26 34.04
	11200.00	89.50	359.51	10497.76	838.45	844.88	747.82	0.00	542768.24	815925.33	N 32 29 20.33	W 103 26 34.04
	11300.00	89.50	359.51	10498.63	938.45	944.87	746.96	0.00	542868.23	815924.47	N 32 29 21.32	W 103 26 34.04
	11400.00	89.50	359.51	10499.50	1038.44	1044.86	746.11	0.00	542968.23	815923.62	N 32 29 22.31	W 103 26 34.04
	11500.00	89.50	359.51	10500.37	1138.44	1144.85	745.25	0.00	543068.22	815922.76	N 32 29 23.30	W 103 26 34.04
	11600.00	89.50	359.51	10501.24	1238.43	1244.85	744.40	0.00	543168.21	815921.91	N 32 29 24.29	W 103 26 34.04
	11700.00	89.50	359.51	10502.11	1338.43	1344.84	743.54	0.00	543268.20	815921.05	N 32 29 25.28	W 103 26 34.04
	11800.00	89.50	359.51	10502.98	1438.43	1444.83	742.69	0.00	543368.19	815920.20	N 32 29 26.27	W 103 26 34.04
	11900.00	89.50	359.51	10503.85	1538.42	1544.82	741.83	0.00	543468.19	815919.34	N 32 29 27.26	W 103 26 34.04
	12000.00	89.50	359.51	10504.73	1638.42	1644.82	740.98	0.00	543568.18	815918.49	N 32 29 28.25	W 103 26 34.04
	12100.00	89.50	359.51	10505.60	1738.42	1744.81	740.12	0.00	543668.17	815917.63	N 32 29 29.24	W 103 26 34.04
	12200.00	89.50	359.51	10506.47	1838.41	1844.80	739.27	0.00	543768.16	815916.78	N 32 29 30.22	W 103 26 34.04
	12300.00	89.50	359.51	10507.34	1938.41	1944.79	738.41	0.00	543868.15	815915.92	N 32 29 31.21	W 103 26 34.04
	12400.00	89.50	359.51	10508.21	2038.40	2044.79	737.56	0.00	543968.15	815915.07	N 32 29 32.20	W 103 26 34.04
	12500.00	89.50	359.51	10509.08	2138.40	2144.78	736.70	0.00	544068.14	815914.21	N 32 29 33.19	W 103 26 34.04
	12600.00	89.50	359.51	10509.95	2238.40	2244.77	735.85	0.00	544168.13	815913.36	N 32 29 34.18	W 103 26 34.04
	12700.00	89.50	359.51	10510.82	2338.39	2344.76	734.99	0.00	544268.12	815912.50	N 32 29 35.17	W 103 26 34.04
	12800.00	89.50	359.51	10511.69	2438.39	2444.76	734.14	0.00	544368.11	815911.65	N 32 29 36.16	W 103 26 34.04
	12900.00	89.50	359.51	10512.56	2538.39	2544.75	733.28	0.00	544468.10	815910.79	N 32 29 37.15	W 103 26 34.04
	13000.00	89.50	359.51	10513.44	2638.38	2644.74	732.43	0.00	544568.10	815909.94	N 32 29 38.14	W 103 26 34.04
	13100.00	89.50	359.51	10514.31	2738.38	2744.73	731.57	0.00	544668.09	815909.08	N 32 29 39.13	W 103 26 34.04
	13200.00	89.50	359.51	10515.18	2838.37	2844.73	730.72	0.00	544768.08	815908.23	N 32 29 40.12	W 103 26 34.04
	13300.00	89.50	359.51	10516.05	2938.37	2944.72	729.86	0.00	544868.07	815907.37	N 32 29 41.11	W 103 26 34.04
	13400.00	89.50	359.51	10516.92	3038.37	3044.71	729.01	0.00	544968.06	815906.52	N 32 29 42.10	W 103 26 34.04
	13500.00	89.50	359.51	10517.79	3138.36	3144.70	728.15	0.00	545068.06	815905.66	N 32 29 43.09	W 103 26 34.04
	13600.00	89.50	359.51	10518.66	3238.36	3244.70	727.30	0.00	545168.05	815904.81	N 32 29 44.08	W 103 26 34.04
	13700.00	89.50	359.51	10519.53	3338.35	3344.69	726.45	0.00	545268.04	815903.95	N 32 29 45.07	W 103 26 34.04
	13800.00	89.50	359.51	10520.40	3438.35	3444.68	725.59	0.00	545368.03	815903.10	N 32 29 46.06	W 103 26 34.05
	13900.00	89.50	359.51	10521.27	3538.35	3544.67	724.74	0.00	545468.02	815902.25	N 32 29 47.05	W 103 26 34.05
	14000.00	89.50	359.51	10522.14	3638.34	3644.67	723.88	0.00	545568.01	815901.39	N 32 29 48.03	W 103 26 34.05
	14100.00	89.50	359.51	10523.02	3738.34	3744.66	723.03	0.00	545668.01	815900.54	N 32 29 49.02	W 103 26 34.05
	14200.00	89.50	359.51	10523.89	3838.34	3844.65	722.17	0.00	545768.00	815899.68	N 32 29 50.01	W 103 26 34.05
	14300.00	89.50	359.51	10524.76	3938.33	3944.64	721.32	0.00	545867.99	815898.83	N 32 29 51.00	W 103 26 34.05
	14400.00	89.50	359.51	10525.63	4038.33	4044.64	720.46	0.00	545967.98	815897.97	N 32 29 51.99	W 103 26 34.05
	14500.00	89.50	359.51	10526.50	4138.32	4144.63	719.61	0.00	546067.97	815897.12	N 32 29 52.98	W 103 26 34.05
	14600.00											

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 ° ' ")
	17800.00	89.50	359.51	10555.24	7438.20	7444.38	691.39	0.00	549367.70	815868.90	N 32 30 25.63	W 103 26 34.05
	17900.00	89.50	359.51	10556.11	7538.20	7544.38	690.54	0.00	549467.70	815868.05	N 32 30 26.62	W 103 26 34.05
Chisholm Outland State Unit 11-2 2BS 7H - PBHL	17991.87	89.50	359.51	10556.91	7630.06	7636.24	689.75	0.00	549559.56	815867.26	N 32 30 27.53	W 103 26 34.05

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 Outland State Unit 11-2 2BS 7H / Chisholm Outland State Unit 11-2 2BS 7H Prelim mcs
	1	26.000	17991.867	1/100.000	30.000	30.000		NAL_MWD_1.0_DEG	Chisholm Outland State Unit 11-2 2BS 7H / Chisholm Outland State