Form 3160-3
(June 2015)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.

[332054]

2. Name of Operator

[372137]

9. API Well No.

30-025-49713

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory **[13160/59475]**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NGMP Rec 01/06/2022

KZ
01/11/2022

SL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/12/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-49713	13160	CORBIN; BONE SPRING, SOUTH

[4] Property Code	[5] Property Name	[6] Well Number
332054	BEL-AIR 5-8 FED 2BS COM	6H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372137	CHISHOLM ENERGY OPERATING, LLC	3717.9

[10] Surface Location

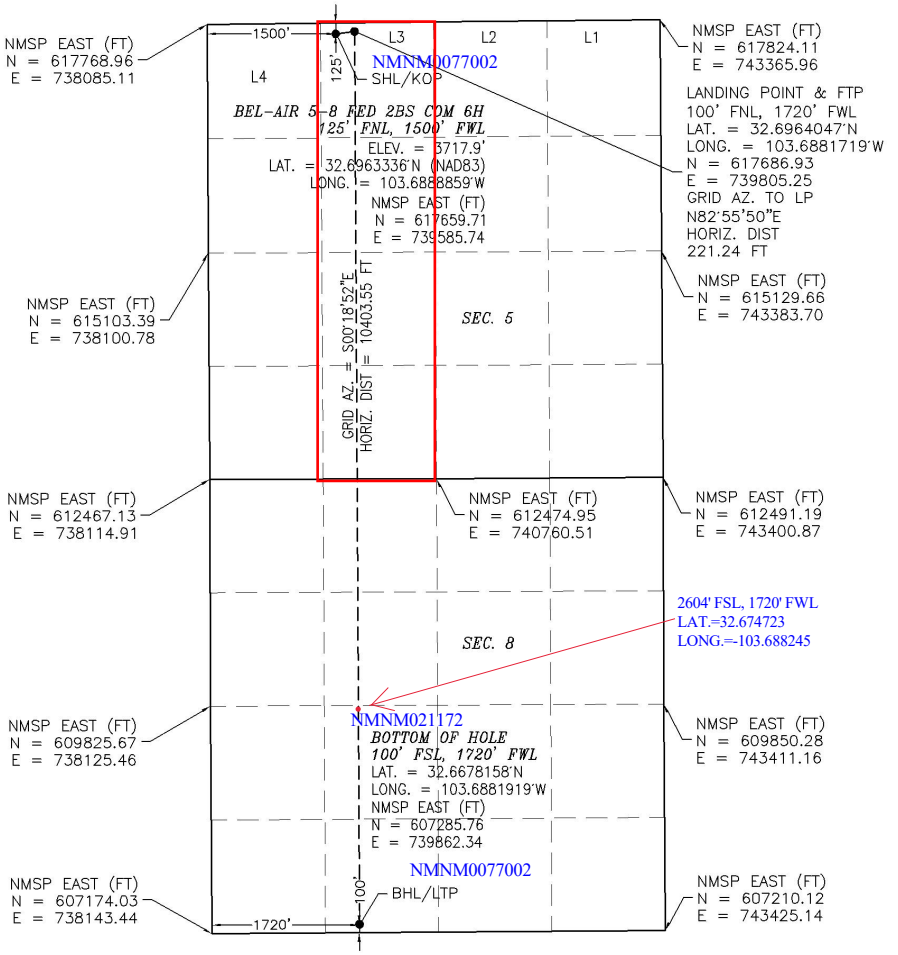
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	5	19 S	33 E		125	NORTH	1500	WEST	LEA

[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
N	8	19 S	33 E		100	SOUTH	1720	WEST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
161.07			

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



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jennifer Elrod 03/26/2021
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 16, 2020
Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number: FILIMON F. JARAMILLO LS 12797

Intent [x] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
CHISHOLM ENERGY OPERATING, LLC	**BEL-AIR 5-8 FED 2BS COM**	**6H**

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	5	**19S**	**33E**	**3**	**125**	**NORTH**	**1500**	**WEST**	**LEA**

Latitude	Longitude	NAD
32.6963336	**103.6888859**	**83**

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	5	**19S**	**33E**	**3**	**100**	**NORTH**	**1720**	**WEST**	**LEA**

Latitude	Longitude	NAD
32.6964047	**103.6881719**	**83**

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	**8**	**19S**	**33E**		**100**	**SOUTH**	**1720**	**WEST**	**LEA**

Latitude	Longitude	NAD
32.6678158	**103.6881919**	**83**

Is this well the defining well for the Horizontal Spacing Unit? [YES]

Is this well an infill well? [NO]

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
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[4] Property Code	[5] Property Name	[6] Well Number
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160			

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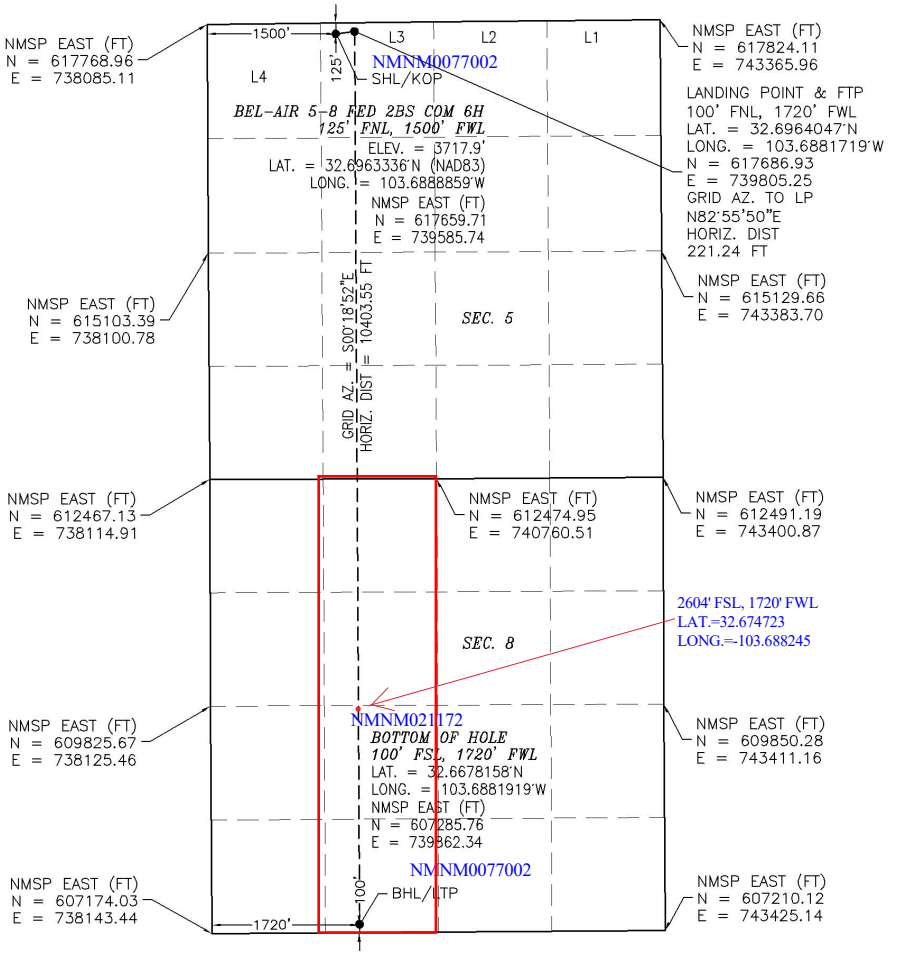

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Jennifer Elrod 03/26/2021
Signature Date

JENNIFER ELROD
Printed Name

JELROD@CHISHOLMENERGY.COM
E-mail Address

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Certificate Number: FILIMON F. JARAMILLO LS 12797

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Operator Name:	Property Name:	Well Number
CHISHOLM ENERGY OPERATING, LLC	**BEL-AIR 5-8 FED 2BS COM**	**6H**

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Is this well an infill well? [NO]

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API #

Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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
Bel-Air 5-8 Fed 2BS Com 5H		Lot 3-5-19S-33E	125 FNL,1470 FWL	1250	1650	6000
Bel-Air 5-8 Fed 2BS Com 6H		Lot 3-5-19S-33E	25 FNL,1500 FWL	1250	1650	6000

IV. Central Delivery Point Name: BEL-AIR 5-8 FED COM WEST PAD [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
Bel-Air 5-8 Fed 2BS Com 5H		07/01/2022	07/28/2022	08/23/2022	09/12/2022	09/13/2022
Bel-Air 5-8 Fed 2BS Com 6H		08/01/2022	08/28/2022	08/23/2022	09/12/2022	09/12/2022

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.

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:	Jennifer Elrod
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.

- 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 50 MCFPD.

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 with 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.

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BEL-AIR 5-8 FED 2BS COM **Well Number:** 6H

5M_Choke_Manifold_Diagram_20210329094449.pdf

5m_BOP_Diagram_2_20210329094455.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1500	0	1500	3718	2218	1500	J-55	54.5	LT&C	1.65	3.98	DRY	11.12	DRY	10.43
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5300	0	5300	3728	-1582	5300	J-55	40	LT&C	1.83	1.41	DRY	2.45	DRY	2.97
3	PRODUCTION	8.75	5.5	NEW	API	N	0	20037	0	10061	3728	-6343	20037	P-110	20	BUTT	2.23	2.54	DRY	3.31	DRY	3.19

Casing Attachments

Casing ID: 1 **String Type:** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator___Bel_Air_5_8_Fed_2BS_Com_6H_20210329101017.pdf

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BEL-AIR 5-8 FED 2BS COM **Well Number:** 6H

Casing Attachments

Casing ID: 2 **String Type:** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator___Bel_Air_5_8_Fed_2BS_Com_6H_20210329100915.pdf

Casing ID: 3 **String Type:** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator___Bel_Air_5_8_Fed_2BS_Com_6H_20210329100940.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	800	555	2.01	12.8	1116	100	Class C	Sodium Metasilicate, Defoamer, KCL
SURFACE	Tail		800	1500	525	1.33	14.8	698	100	Class C	none
INTERMEDIATE	Lead	3300	0	2800	1165	2.43	11.5	2831	200	C	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		2800	3300	355	1.33	14.8	472	200	C	Fluid Loss, Dispercent, Retarder

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BEL-AIR 5-8 FED 2BS COM **Well Number:** 6H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	3300	3300	4800	580	2.43	11.5	1409	200	Class C	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		4800	5300	355	1.33	14.8	472	200	Class C	Fluid Loss, Dispercent, Retarder
PRODUCTION	Lead		3000	8300	565	2.62	11.3	1480	10	Class H	Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder
PRODUCTION	Tail		8300	20037	2540	1.2	13.2	3048	10	Class H	Fluid Loss, Suspension Agent, Retarder, Defoamer, Dispersant

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: Pason PVT system will be in place throughout the well as well as visual checks

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1500	SPUD MUD	8.5	9.2							38-40 VIS 8-10 PV 8-10 YP
5300	20037	OIL-BASED MUD	9.3	9.8							15-20 PV 8-12 YP

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BEL-AIR 5-8 FED 2BS COM **Well Number:** 6H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1500	5300	SALT SATURATED	9.8	10.2							28-32 VIS 1-3 PV 1-3 YP

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

None

List of open and cased hole logs run in the well:

CEMENT BOND LOG,DIRECTIONAL SURVEY,GAMMA RAY LOG,MEASUREMENT WHILE DRILLING,

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5336 **Anticipated Surface Pressure:** 3122

Anticipated Bottom Hole Temperature(F): 163

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Lea_County_H2S_plan_20200706095901.pdf

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BEL-AIR 5-8 FED 2BS COM **Well Number:** 6H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

APD_DIR_PLAN___Chisholm_Bel_Air_5_8_Fed_2BS_Com_6H_Rev0_CVS_19Nov20_20210329105456.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Chisholm_Energy___Bel_Air_5_8_Fed_2BS_Com_6H___WBD_20210805142132.pdf

Other Variance attachment:

Choke_Hose_M55_1_07102017_145204_66_1225_04_14_2014__20210329105614.pdf
Cactus_Speed_Head_Pressure_Testing_Statement_20210329105614.pdf
Choke_Hose_M55_2_07102017_145421_66_1042_05_03_2013__20210329105614.pdf
Cactus_Speed_Head_Installation_Procedure_20210329105614.pdf
Cactus_Speedhead_Diagram_20210329105614.pdf

Casing Program: **Bel-Air 5-8 Fed 2BS Com 6H**

Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	Anticipated Mud Weight (ppg)	Burst (psi)	Burst SF (1.125)	Collapse (psi)	Collapse SF (1.125)	Tension Joint (klbs)	Air Weight (lbs)	Tension Joint SF (1.8)	Tension Body (klbs)	Air Weight (lbs)	Tension Body SF (1.8)
Surface																			
17.5"	0'	1,500'	1,500'	13 3/8"	54.5	J-55	BTC	New	8.8	2730	3.98	1130	1.65	909,000	81,750	11.12	853,000	81,750	10.43
Intermediate																			
12.25"	0'	5,300'	5,300'	9 5/8"	40	J-55	LTC	New	10.2	3950	1.41	2570	1.83	520,000	212,000	2.45	630,000	212,000	2.97
Production																			
8.75"	0'	20,037'	10,061'	5 1/2"	20	P-110	BTC	New	9.5	12640	2.54	11080	2.23	667,000	201,220	3.31	641,000	201,220	3.19

Casing Design Criteria and Casing Loading Assumptions:

Surface

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	8.8	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	8.8	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.8	ppg

Intermediate

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	10.2	ppg
Collapse	A 1.125 design factor with 1/2 TVD internal evacuation and collapse force equal to a mud gradient of:	10.2	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	10.2	ppg

Production

Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.5	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.5	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.5	ppg

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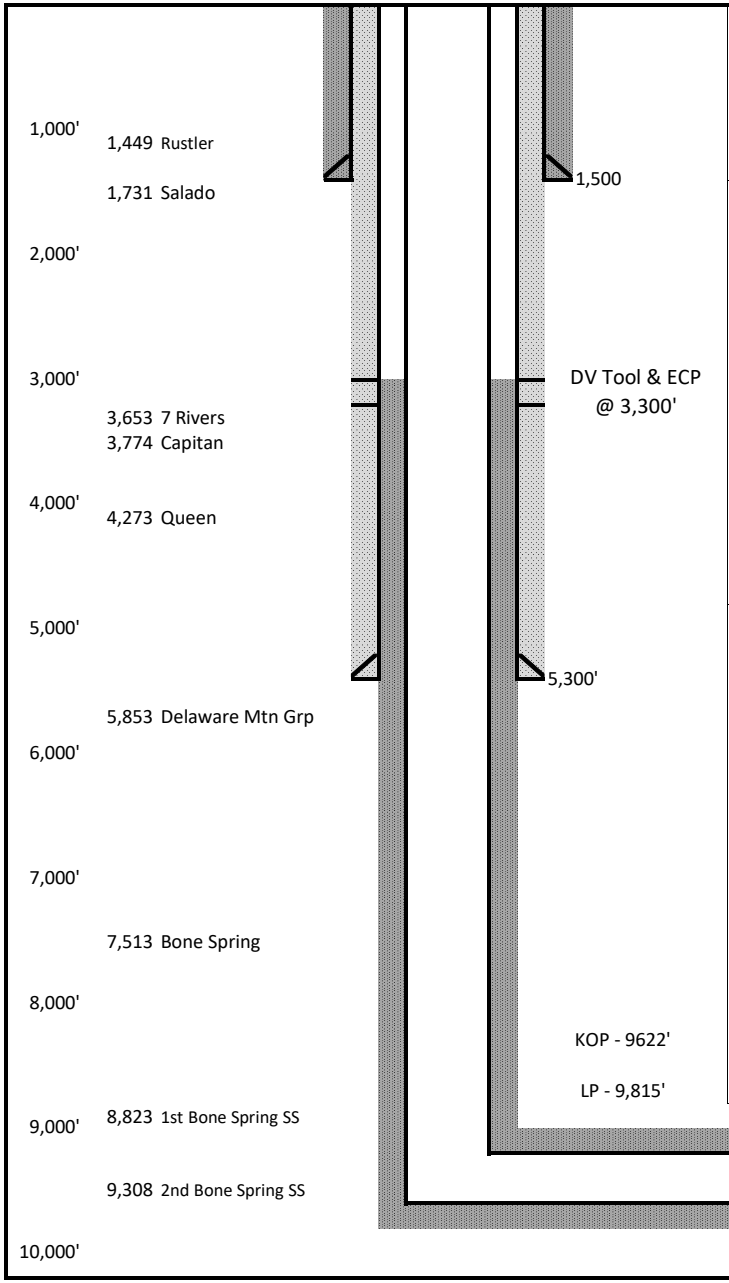
An Oil and Gas Consulting and Engineering Firm

Bel-Air 5-8 Fed Com 2BS 6H

API # 30-025-4xxxx

Updated: 03/25/2021



Hole Size	Casing	Drilling Fluids	Cement	OH Evaluation/Logs
17-1/2"	Surface 13-3/8" 54.5# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 38 - 40 Vis 8 - 10 PV 8 - 10 YP	Top of Lead: Surface 12.8 ppg 2.01 cuft/sk 555 sks - 100% XS Top of Tail: 800' 14.8 ppg 1.33 cuft/sk 525 sks - 100% XS	NA
12-1/4"	Intermediate 9-5/8"40# J55 LTC	Brine 9.8 - 10.2 ppg 28 - 32 Vis 1 - 3 PV 1 - 3 YP	Stage 2: Top of Lead: Surface 11.5 ppg 2.43 cuft/sk 1,165 sks - 200% XS Top of Tail: 2,800' 14.8 ppg 1.33 cuft/sk 355 sks - 200% XS Stage 1: Top of Lead: 3,300' 11.5 ppg 2.43 cuft/sk 580 sks - 200% XS Top of Tail: 4,800' 14.8 ppg 1.33 cuft/sk 355 sks - 200% XS	NA
8-3/4" to KOP & Curve 8-1/2" Lateral	Production 5-1/2" 20# P110 BTC	Curve & Lateral OBM 9.3 - 9.8 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 3,000' 11.3 ppg 2.62 cuft/sk 565 sks - 10% XS Top of Tail: 8,300' 13.2 ppg 1.2 cuft/sk 2,540 sks - 10% XS	GR from Under Intermediate to TD

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Chisholm

Rev0

CHISHOLM ENERGY

Borehole:	Well:	Field:	Structure:
Bel-Air 5-8 Fed 2BS Com 6H	Bel-Air 5-8 Fed 2BS Com 6H	NM Lea County (NAD 83)	Chisholm Bel-Air 5-8 Fed 2BS Com Pad

Gravity & Magnetic Parameters

Model:	HDGM 2020	Dip:	60.603°	Date:	20-Nov-2020
MagDec:	6.605°	FS:	48063.128nT	Gravity FS:	998.511mgn (9.80665 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

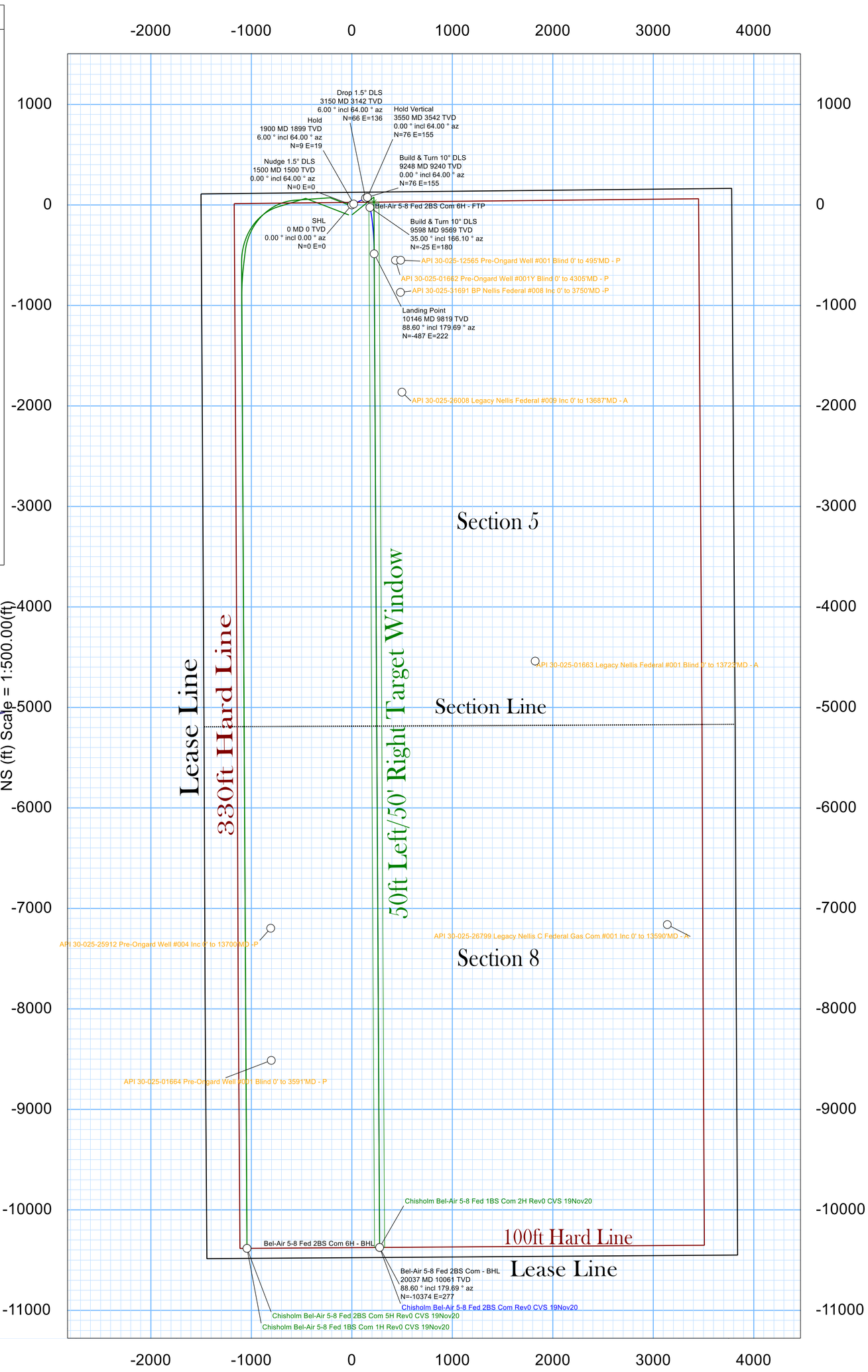
Lat:	N 32 41 46.80	Northing:	617659.71ftUS	Grid Conv:	0.3481°
Lon:	W 103 41 19.99	Easting:	739585.74ftUS	Scale Fact:	0.9999541

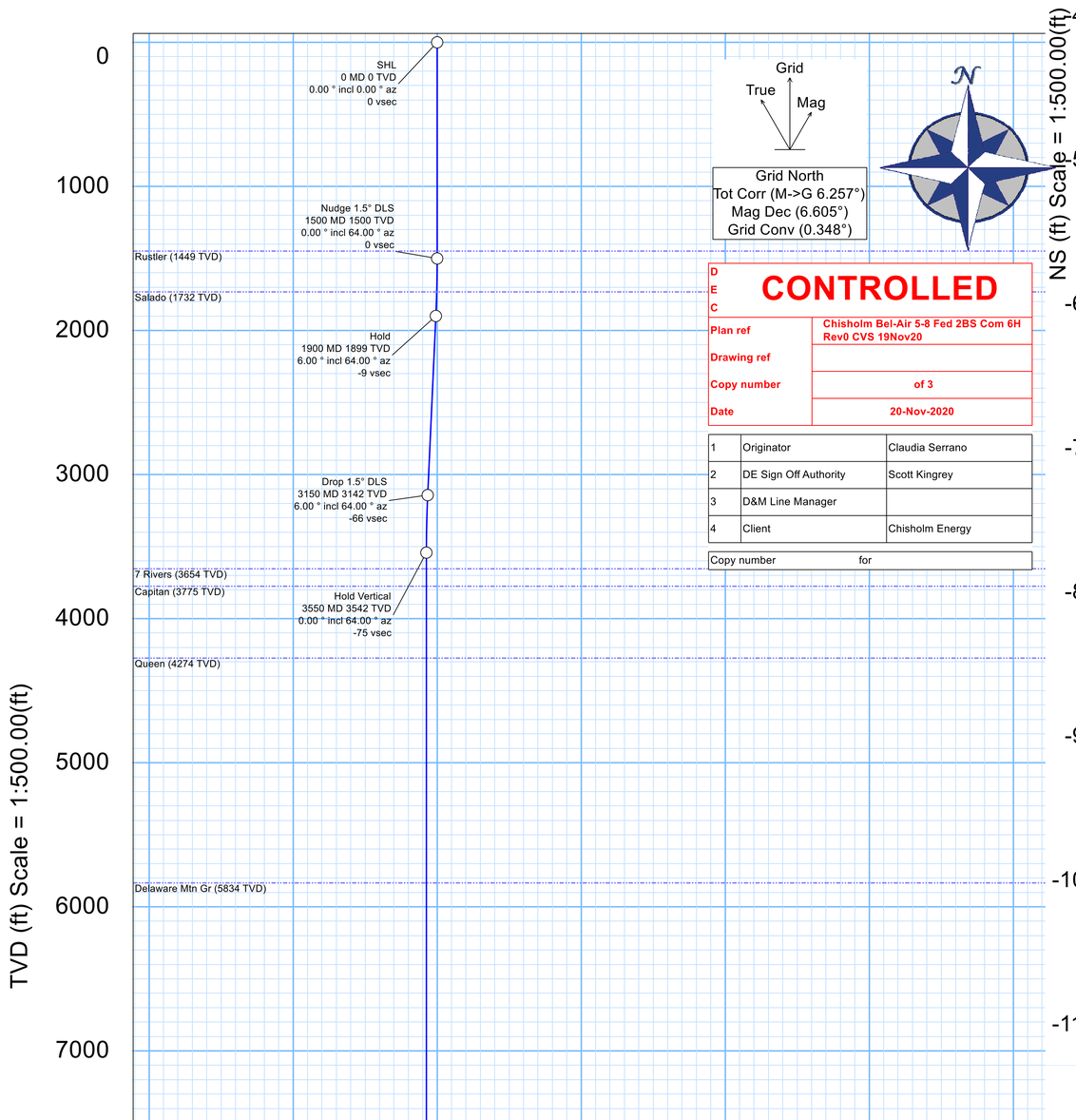
Miscellaneous

Slot:	New Slot	TVD Ref:	RKB(3743.9ft above MSL)
Plan:	Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20		

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	1449.00	0.00	64.00	1449.00	0.00	0.00	0.00	0.00
Nudge 1.5° DLS	1500.00	0.00	64.00	1500.00	0.00	0.00	0.00	0.00
Salado	1732.14	3.48	64.00	1732.00	-3.06	3.09	6.34	1.50
Hold	1900.00	6.00	64.00	1899.27	-9.07	9.17	18.81	1.50
Drop 1.5° DLS	3150.00	6.00	64.00	3142.42	-65.71	66.45	136.24	0.00
Hold Vertical	3550.00	0.00	64.00	3541.69	-74.78	75.62	155.05	1.50
7 Rivers	3662.31	0.00	64.00	3654.00	-74.78	75.62	155.05	0.00
Capitan	3783.31	0.00	64.00	3775.00	-74.78	75.62	155.05	0.00
Queen	4282.31	0.00	64.00	4274.00	-74.78	75.62	155.05	0.00
Delaware Mtn Gr	5842.31	0.00	64.00	5834.00	-74.78	75.62	155.05	0.00
Bone Spring	7522.31	0.00	64.00	7514.00	-74.78	75.62	155.05	0.00
1st Bone Spring SS	8832.31	0.00	64.00	8824.00	-74.78	75.62	155.05	0.00
Build & Turn 10° DLS	9248.41	0.00	64.00	9240.10	-74.78	75.62	155.05	0.00
2nd Bone Spring SS	9317.48	6.91	166.10	9309.00	-70.74	71.59	156.05	10.00
Build & Turn 10° DLS	9598.41	35.00	166.10	9568.74	25.93	-24.96	179.94	10.00
Landing Point	10145.75	88.60	179.69	9818.92	487.76	-486.57	222.43	10.00
Bel-Air 5-8 Fed 2BS Com 6H - BHL	20036.73	88.60	179.69	10060.58	10375.79	-10374.45	276.61	0.00
Strawn	NaN			12124.00				
3rd Bone Spring SS	NaN			10344.00				
Wolfcamp	NaN			10686.00				





Vertical Section (ft) Azim = 179.69° Scale = 1:500.00(ft) Origin = 0N/-S, 0E/-W

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Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 Proposal
Geodetic Report
(Non-Def Plan)

CHISHOLM ENERGY

Report Date:	November 20, 2020 - 05:02 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chisholm	**Vertical Section Azimuth:**	179.690 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chisholm Bel-Air 5-8 Fed 2BS Com Pad / New Slot	**TVD Reference Datum:**	RKB
Well:	Bel-Air 5-8 Fed 2BS Com 6H	**TVD Reference Elevation:**	3743.900 ft above MSL
Borehole:	Bel-Air 5-8 Fed 2BS Com 6H	**Seabed / Ground Elevation:**	3717.900 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.605 °
Survey Name:	Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20	**Total Gravity Field Strength:**	998.5109mgn (9.80665 Based)
Survey Date:	November 20, 2020	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	101.734 ° / 10628.604 ft / 6.333 / 1.056	**Total Magnetic Field Strength:**	48063.128 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	60.603 °
Location Lat / Long:	N 32° 41' 46.80092", W 103° 41' 19.98935"	**Declination Date:**	November 20, 2020
Location Grid N/E Y/X:	N 617659.710 ftUS, E 739585.740 ftUS	**Magnetic Declination Model:**	HDGM 2020
CRS Grid Convergence Angle:	0.3481 °	**North Reference:**	Grid North
Grid Scale Factor:	0.9999541	**Grid Convergence Used:**	0.3481 °
Version / Patch:	2.10.821.3	**Total Corr Mag North->Grid North:**	6.2568 °
		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	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
Nudge 1.5° DLS	1500.00	0.00	64.00	1500.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
Hold	1900.00	6.00	64.00	1899.27	-9.07	9.17	18.81	1.50	617668.88	739604.55	N 32 41 46.89	W 103 41 19.77
Drop 1.5° DLS	3150.00	6.00	64.00	3142.42	-65.71	66.45	136.24	0.00	617726.16	739721.98	N 32 41 47.45	W 103 41 18.39
Hold Vertical	3550.00	0.00	64.00	3541.69	-74.78	75.62	155.05	1.50	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Build & Turn 10° DLS	9248.41	0.00	64.00	9240.10	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Build & Turn 10° DLS	9598.41	35.00	166.10	9568.74	25.93	-24.96	179.94	10.00	617634.75	739765.67	N 32 41 46.54	W 103 41 17.89
Landing Point	10145.75	88.60	179.69	9818.92	487.76	-486.57	222.43	10.00	617173.17	739808.16	N 32 41 41.97	W 103 41 17.42
Bel-Air 5-8 Fed 2BS Com 6H - BHL	20036.73	88.60	179.69	10060.58	10375.79	-10374.45	276.61	0.00	607285.76	739862.34	N 32 40 4.14	W 103 41 17.49

Survey Type: Non-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	17.500	13.375		NAL_MWD_1.0_DEG-Depth Only	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20
	1	26.000	1500.000	1/100.000	17.500	13.375		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	1500.000	9300.000	1/100.000	12.250	9.625		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	9300.000	10160.000	1/100.000	8.750	7.000		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	10160.000	20036.728	1/100.000	8.500	5.500		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS

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Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 Proposal
Geodetic Report
(Non-Def Plan)

CHISHOLM ENERGY

Report Date:	November 20, 2020 - 05:02 PM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	Chisholm	**Vertical Section Azimuth:**	179.690 ° (Grid North)
Field:	NM Lea County (NAD 83)	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	Chisholm Bel-Air 5-8 Fed 2BS Com Pad / New Slot	**TVD Reference Datum:**	RKB
Well:	Bel-Air 5-8 Fed 2BS Com 6H	**TVD Reference Elevation:**	3743.900 ft above MSL
Borehole:	Bel-Air 5-8 Fed 2BS Com 6H	**Seabed / Ground Elevation:**	3717.900 ft above MSL
UWI / API#:	Unknown / Unknown	**Magnetic Declination:**	6.605 °
Survey Name:	Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20	**Total Gravity Field Strength:**	998.5109mgn (9.80665 Based)
Survey Date:	November 20, 2020	**Gravity Model:**	GARM
Tort / AHD / DDI / ERD Ratio:	101.734 ° / 10628.604 ft / 6.333 / 1.056	**Total Magnetic Field Strength:**	48063.128 nT
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Dip Angle:**	60.603 °
Location Lat / Long:	N 32° 41' 46.80092", W 103° 41' 19.98935"	**Declination Date:**	November 20, 2020
Location Grid N/E Y/X:	N 617659.710 ftUS, E 739585.740 ftUS	**Magnetic Declination Model:**	HDGM 2020
CRS Grid Convergence Angle:	0.3481 °	**North Reference:**	Grid North
Grid Scale Factor:	0.9999541	**Grid Convergence Used:**	0.3481 °
Version / Patch:	2.10.821.3	**Total Corr Mag North->Grid North:**	6.2568 °
		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	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	100.00	0.00	64.00	100.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	200.00	0.00	64.00	200.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	300.00	0.00	64.00	300.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	400.00	0.00	64.00	400.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	500.00	0.00	64.00	500.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	600.00	0.00	64.00	600.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	700.00	0.00	64.00	700.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	800.00	0.00	64.00	800.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	900.00	0.00	64.00	900.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1000.00	0.00	64.00	1000.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1100.00	0.00	64.00	1100.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1200.00	0.00	64.00	1200.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1300.00	0.00	64.00	1300.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1400.00	0.00	64.00	1400.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
Rustler	*1449.00*	*0.00*	*64.00*	*1449.00*	*0.00*	*0.00*	*0.00*	*0.00*	*617659.71*	*739585.74*	*N 32 41 46.80*	*W 103 41 19.99*
Nudge 1.5° DLS	1500.00	0.00	64.00	1500.00	0.00	0.00	0.00	0.00	617659.71	739585.74	N 32 41 46.80	W 103 41 19.99
	1600.00	1.50	64.00	1599.99	-0.57	0.57	1.18	1.50	617660.28	739586.92	N 32 41 46.81	W 103 41 19.98
	1700.00	3.00	64.00	1699.91	-2.27	2.29	4.70	1.50	617662.00	739590.44	N 32 41 46.82	W 103 41 19.93
Salado	*1732.14*	*3.48*	*64.00*	*1732.00*	*-3.06*	*3.09*	*6.34*	*1.50*	*617662.80*	*739592.08*	*N 32 41 46.83*	*W 103 41 19.91*
	1800.00	4.50	64.00	1799.69	-5.10	5.16	10.58	1.50	617664.87	739596.32	N 32 41 46.85	W 103 41 19.87
Hold	1900.00	6.00	64.00	1899.27	-9.07	9.17	18.81	1.50	617668.88	739604.55	N 32 41 46.89	W 103 41 19.77
	2000.00	6.00	64.00	1998.72	-13.60	13.76	28.20	0.00	617673.46	739613.94	N 32 41 46.94	W 103 41 19.66
	2100.00	6.00	64.00	2098.17	-18.13	18.34	37.60	0.00	617678.05	739623.34	N 32 41 46.98	W 103 41 19.55
	2200.00	6.00	64.00	2197.63	-22.66	22.92	46.99	0.00	617682.63	739632.73	N 32 41 47.02	W 103 41 19.44
	2300.00	6.00	64.00	2297.08	-27.20	27.50	56.39	0.00	617687.21	739642.12	N 32 41 47.07	W 103 41 19.33
	2400.00	6.00	64.00	2396.53	-31.73	32.08	65.78	0.00	617691.79	739651.52	N 32 41 47.11	W 103 41 19.22
	2500.00	6.00	64.00	2495.98	-36.26	36.67	75.18	0.00	617696.37	739660.91	N 32 41 47.16	W 103 41 19.11
	2600.00	6.00	64.00	2595.43	-40.79	41.25	84.57	0.00	617700.96	739670.31	N 32 41 47.20	W 103 41 19.00
	2700.00	6.00	64.00	2694.89	-45.32	45.83	93.97	0.00	617705.54	739679.70	N 32 41 47.25	W 103 41 18.89
	2800.00	6.00	64.00	2794.34	-49.85	50.41	103.36	0.00	617710.12	739689.10	N 32 41 47.29	W 103 41 18.78
	2900.00	6.00	64.00	2893.79	-54.38	55.00	112.76	0.00	617714.70	739698.49	N 32 41 47.34	W 103 41 18.67
	3000.00	6.00	64.00	2993.24	-58.92	59.58	122.15	0.00	617719.28	739707.89	N 32 41 47.38	W 103 41 18.56
	3100.00	6.00	64.00	3092.70	-63.45	64.16	131.55	0.00	617723.87	739717.28	N 32 41 47.43	W 103 41 18.45
Drop 1.5° DLS	3150.00	6.00	64.00	3142.42	-65.71	66.45	136.24	0.00	617726.16	739721.98	N 32 41 47.45	W 103 41 18.39
	3200.00	5.25	64.00	3192.18	-67.84	68.60	140.65	1.50	617728.31	739726.38	N 32 41 47.47	W 103 41 18.34
	3300.00	3.75	64.00	3291.87	-71.24	72.04	147.70	1.50	617731.74	739733.43	N 32 41 47.50	W 103 41 18.26
	3400.00	2.25	64.00	3391.73	-73.51	74.33	152.40	1.50	617734.04	739738.14	N 32 41 47.53	W 103 41 18.20
	3500.00	0.75	64.00	3491.69	-74.64	75.48	154.76	1.50	617735.19	739740.49	N 32 41 47.54	W 103 41 18.17
Hold Vertical	3550.00	0.00	64.00	3541.69	-74.78	75.62	155.05	1.50	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	3600.00	0.00	64.00	3591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
7 Rivers	*3662.31*	*0.00*	*64.00*	*3654.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	3700.00	0.00	64.00	3691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Capitan	*3783.31*	*0.00*	*64.00*	*3775.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	3800.00	0.00	64.00	3791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	3900.00	0.00	64.00	3891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4000.00	0.00	64.00	3991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4100.00	0.00	64.00	4091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4200.00	0.00	64.00	4191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Queen	*4282.31*	*0.00*	*64.00*	*4274.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	4300.00	0.00	64.00	4291.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4400.00	0.00	64.00	4391.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4500.00	0.00	64.00	4491.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4600.00	0.00	64.00	4591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4700.00	0.00	64.00	4691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4800.00	0.00	64.00	4791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	4900.00	0.00	64.00	4891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5000.00	0.00	64.00	4991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5100.00	0.00	64.00	5091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5200.00	0.00	64.00	5191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5300.00	0.00	64.00	5291.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5400.00	0.00	64.00	5391.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5500.00	0.00	64.00	5491.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5600.00	0.00	64.00	5591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5700.00	0.00	64.00	5691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	5800.00	0.00	64.00	5791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Delaware Mtn Gr	*5842.31*	*0.00*	*64.00*	*5834.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	5900.00	0.00	64.00	5891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6000.00	0.00	64.00	5991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6100.00	0.00	64.00	6091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6200.00	0.00	64.00	6191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17

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 ° ' ")
	6300.00	0.00	64.00	6291.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6400.00	0.00	64.00	6391.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6500.00	0.00	64.00	6491.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6600.00	0.00	64.00	6591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6700.00	0.00	64.00	6691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6800.00	0.00	64.00	6791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	6900.00	0.00	64.00	6891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7000.00	0.00	64.00	6991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7100.00	0.00	64.00	7091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7200.00	0.00	64.00	7191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7300.00	0.00	64.00	7291.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7400.00	0.00	64.00	7391.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7500.00	0.00	64.00	7491.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Bone Spring	*7522.31*	*0.00*	*64.00*	*7514.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	7600.00	0.00	64.00	7591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7700.00	0.00	64.00	7691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7800.00	0.00	64.00	7791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	7900.00	0.00	64.00	7891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8000.00	0.00	64.00	7991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8100.00	0.00	64.00	8091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8200.00	0.00	64.00	8191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8300.00	0.00	64.00	8291.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8400.00	0.00	64.00	8391.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8500.00	0.00	64.00	8491.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8600.00	0.00	64.00	8591.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8700.00	0.00	64.00	8691.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	8800.00	0.00	64.00	8791.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
1st Bone Spring SS	*8832.31*	*0.00*	*64.00*	*8824.00*	*-74.78*	*75.62*	*155.05*	*0.00*	*617735.33*	*739740.78*	*N 32 41 47.54*	*W 103 41 18.17*
	8900.00	0.00	64.00	8891.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	9000.00	0.00	64.00	8991.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	9100.00	0.00	64.00	9091.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	9200.00	0.00	64.00	9191.69	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
Build & Turn 10° DLS	9248.41	0.00	64.00	9240.10	-74.78	75.62	155.05	0.00	617735.33	739740.78	N 32 41 47.54	W 103 41 18.17
	9300.00	5.16	166.10	9291.62	-72.53	73.37	155.61	10.00	617733.08	739741.34	N 32 41 47.52	W 103 41 18.16
2nd Bone Spring SS	*9317.48*	*6.91*	*166.10*	*9309.00*	*-70.74*	*71.59*	*156.05*	*10.00*	*617731.29*	*739741.78*	*N 32 41 47.50*	*W 103 41 18.16*
	9400.00	15.16	166.10	9389.93	-55.40	56.27	159.84	10.00	617715.98	739745.57	N 32 41 47.35	W 103 41 18.11
	9500.00	25.16	166.10	9483.68	-21.95	22.86	168.11	10.00	617682.57	739753.84	N 32 41 47.02	W 103 41 18.02
Build & Turn 10° DLS	9598.41	35.00	166.10	9568.74	25.93	-24.96	179.94	10.00	617634.75	739765.67	N 32 41 46.54	W 103 41 17.89
	9600.00	35.15	166.18	9570.04	26.82	-25.85	180.16	10.00	617633.86	739765.89	N 32 41 46.53	W 103 41 17.88
	9700.00	44.81	170.23	9646.58	89.73	-88.69	193.05	10.00	617571.02	739778.78	N 32 41 45.91	W 103 41 17.74
	9800.00	54.57	173.09	9711.20	165.16	-164.06	203.97	10.00	617495.66	739789.70	N 32 41 45.17	W 103 41 17.61
	9900.00	64.39	175.32	9761.93	250.80	-249.66	212.57	10.00	617410.06	739798.30	N 32 41 44.32	W 103 41 17.52
	10000.00	74.23	177.21	9797.22	344.07	-342.89	218.60	10.00	617316.83	739804.33	N 32 41 43.40	W 103 41 17.46
	10100.00	84.09	178.93	9816.00	442.12	-440.93	221.88	10.00	617218.80	739807.61	N 32 41 42.42	W 103 41 17.42
Landing Point	10145.75	88.60	179.69	9818.92	487.76	-486.57	222.43	10.00	617173.17	739808.16	N 32 41 41.97	W 103 41 17.42
	10200.00	88.60	179.69	9820.25	542.00	-540.80	222.73	0.00	617118.93	739808.46	N 32 41 41.44	W 103 41 17.42
	10300.00	88.60	179.69	9822.69	641.97	-640.77	223.28	0.00	617018.97	739809.01	N 32 41 40.45	W 103 41 17.42
	10400.00	88.60	179.69	9825.13	741.94	-740.74	223.83	0.00	616919.01	739809.55	N 32 41 39.46	W 103 41 17.42
	10500.00	88.60	179.69	9827.58	841.91	-840.71	224.37	0.00	616819.04	739810.10	N 32 41 38.47	W 103 41 17.42
	10600.00	88.60	179.69	9830.02	941.88	-940.68	224.92	0.00	616719.08	739810.65	N 32 41 37.48	W 103 41 17.42
	10700.00	88.60	179.69	9832.46	1041.85	-1040.65	225.47	0.00	616619.11	739811.20	N 32 41 36.49	W 103 41 17.43
	10800.00	88.60	179.69	9834.91	1141.82	-1140.61	226.02	0.00	616519.15	739811.75	N 32 41 35.50	W 103 41 17.43
	10900.00	88.60	179.69	9837.35	1241.79	-1240.58	226.56	0.00	616419.19	739812.29	N 32 41 34.51	W 103 41 17.43
	11000.00	88.60	179.69	9839.79	1341.76	-1340.55	227.11	0.00	616319.22	739812.84	N 32 41 33.52	W 103 41 17.43
	11100.00	88.60	179.69	9842.23	1441.73	-1440.52	227.66	0.00	616219.26	739813.39	N 32 41 32.53	W 103 41 17.43
	11200.00	88.60	179.69	9844.68	1541.70	-1540.49	228.21	0.00	616119.29	739813.94	N 32 41 31.55	W 103 41 17.43
	11300.00	88.60	179.69	9847.12	1641.67	-1640.46	228.76	0.00	616019.33	739814.48	N 32 41 30.56	W 103 41 17.43
	11400.00	88.60	179.69	9849.56	1741.64	-1740.43	229.30	0.00	615919.37	739815.03	N 32 41 29.57	W 103 41 17.43
	11500.00	88.60	179.69	9852.01	1841.61	-1840.40	229.85	0.00	615819.40	739815.58	N 32 41 28.58	W 103 41 17.43
	11600.00	88.60	179.69	9854.45	1941.58	-1940.36	230.40	0.00	615719.44	739816.13	N 32 41 27.59	W 103 41 17.43
	11700.00	88.60	179.69	9856.89	2041.55	-2040.33	230.95	0.00	615619.48	739816.68	N 32 41 26.60	W 103 41 17.43
	11800.00	88.60	179.69	9859.34	2141.52	-2140.30	231.49	0.00	615519.51	739817.22	N 32 41 25.61	W 103 41 17.43
	11900.00	88.60	179.69	9861.78	2241.49	-2240.27	232.04	0.00	615419.55	739817.77	N 32 41 24.62	W 103 41 17.43
	12000.00	88.60	179.69	9864.22	2341.46	-2340.24	232.59	0.00	615319.58	739818.32	N 32 41 23.63	W 103 41 17.43
	12100.00	88.60	179.69	9866.67	2441.43	-2440.21	233.14	0.00	615219.62	739818.87	N 32 41 22.64	W 103 41 17.43
	12200.00	88.60	179.69	9869.11	2541.40	-2540.18	233.69	0.00	615119.66	739819.41	N 32 41 21.65	W 103 41 17.44
	12300.00	88.60	179.69	9871.55	2641.37	-2640.14	234.23	0.00	615019.69	739819.96	N 32 41 20.66	W 103 41 17.44
	12400.00	88.60	179.69	9874.00	2741.34	-2740.11	234.78	0.00	614919.73	739820.51	N 32 41 19.68	W 103 41 17.44
	12500.00	88.60	179.69	9876.44	2841.31	-2840.08	235.33	0.00	614819.76	739821.06	N 32 41 18.69	W 103 41 17.44
	12600.00	88.60	179.69	9878.88	2941.28	-2940.05	235.88	0.00	614719.80	739821.61	N 32 41 17.70	W 103 41 17.44
	12700.00	88.60	179.69	9881.33	3041.25	-3040.02	236.42	0.00	614619.84	739822.15	N 32 41 16.71	W 103 41 17.44
	12800.00	88.60	179.69	9883.77	3141.22	-3139.99	236.97	0.00	614519.87	739822.70	N 32 41 15.72	W 103 41 17.44
	12900.00	88.60	179.69	9886.21	3241.19	-3239.96	237.52	0.00	614419.91	739823.25	N 32 41 14.73	W 103 41 17.44
	13000.00	88.60	179.69	9888.66	3341.16	-3339.92	238.07	0.00	614319.94	739823.80	N 32 41 13.74	W 103 41 17.44
	13100.00	88.60	179.69	9891.10	3441.13	-3439.89	238.62	0.00	614219.98	739824.34	N 32 41 12.75	W 103 41 17.44
	13200.00	88.60	179.69	9893.54	3541.10	-3539.86	239.16	0.00	614120.02	739824.89	N 32 41 11.76	W 103 41 17.44
	13300.00	88.60	179.69	9895.99	3641.07	-3639.83	239.71	0.00	614020.05	739825.44	N 32 41 10.77	W 103 41 17.44
	13400.00	88.60	179.69	9898.43	3741.04	-3739.80	240.26	0.00	613920.09	739825.99	N 32 41 9.78	W 103 41 17.44
	13500.00	88.60	179.69	9900.87	3841.01	-3839.77	240.81	0.00	613820.13	739826.53	N 32 41 8.79	W 103 41 17.44
	13600.00	88.60	179.69	9903.32	3940.99	-3939.74	241.35	0.00	613720.16	739827.08	N 32 41 7.81	W 103 41 17.45
	13700.00	88.60	179.69	9905.76	4040.96	-4039.71	241.90	0.00	613620.20	739827.63	N 32 41 6.82	W 103 41 17.45
	13800.00	88.60	179.69	9908.20	4140.93	-4139.67	242.45	0.00	613520.23	739828.18	N 32 41 5.83	W 103 41 17.45
	13900.00	88.60	179.69	9910.65	4240.90	-4239.64	243.00	0.00	613420.27	739828.73	N 32 41 4.84	W 103 41 17.45
	14000.00	88.60	179.69	9913.09	4340.87	-4339.61	243.55	0.00	613320.31	739829.27	N 32 41 3.85	W 103 41 17.45
	14100.00	88.60	179.69	9915.53	4440.84	-4439.58	244.09	0.00	613220.34	739829.82	N 32 41 2.86	W 103 41 17.45
	14200.00	88.60	179.69	9917.97	4540.81	-4539.55	244.64	0.00	613120.38	739830.37	N 32 41 1.87	W 103 41 17.45
	14300.00	88.60	179.69	9920.42	4640.78	-4639.52	245.19	0.00	613020.41	739830.92	N 32 41 0.88	W 103 41 17.45
	14400.00	88.60	179.69	9922.86	4740.75	-4739.49	245.74	0.00	612920.45	739831.46	N 32 40 59.89	W 103 41 17.45
	14500.00	88.60	179.69	9925.30	4840.72	-4839.45	246.28	0.00	612820.49	739832.01	N 32 40 58.90	W 103 41 17.45
	14600.00	88.60	179.69	9927.75	4940.69	-4939.42	246.83	0.00	612720.52	739832.56	N 32 40 57.91	W 103 41 17.45
	14700.00	88.60	179.69	9930.19	5040.66	-5039.39	247.38	0.00	612620.56	739833.11	N 32 40 56.93	W 103 41 17.45
	14800.00	88.60	179.69	9932.63	5140.63	-5139.36	247.93	0.00	612520.60	739833.66	N 32 40 55.94	W 103 41 17.45
	14900.00	88.60	179.69	9935.08	5240.60	-5239.33	248.48	0.00	612420.63	739834.20	N 32 40 54.95	W 103 41 17.45
	15000.00	88.60	179.69	9937.52	5340.57	-5339.30	249.02	0.00	612320.67	739834.75	N 32 40 53.96	W 103 41 17.46
	15100.00	88.60	179.69	9939.96	5440.54	-5439.27	249.57	0.00	612220.70	739835.30	N 32 40 52.97	W 103 41 17.46
	15200.00	88.60	179.69	9942.41	5540.51	-5539.24	250.12	0.00	612120.74	739835.85	N 32 40 51.98	W 103 41 17.46
	15300.00	88.60	179.69	9944.85	5640.48	-5639.20	250.67	0.00	612020.78	739836.39	N 32 40 50.99	W 103 41 17.46
	15400.00	88.60	179.69	9947.29	5740.45	-5739.17	251.21	0.00	611920.81	739836.94	N 32 40 50.00	W 103 41 17.46
	15500.00	88.60	179.69	9949.74	5840.42	-5839.14	251.76	0.00	611820.85	739837.49	N 32 40 49.01	W 103 41 17.46

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 ° ' ")
	15600.00	88.60	179.69	9952.18	5940.39	-5939.11	252.31	0.00	611720.88	739838.04	N 32 40 48.02	W 103 41 17.46
	15700.00	88.60	179.69	9954.62	6040.36	-6039.08	252.86	0.00	611620.92	739838.59	N 32 40 47.03	W 103 41 17.46
	15800.00	88.60	179.69	9957.07	6140.33	-6139.05	253.41	0.00	611520.96	739839.13	N 32 40 46.04	W 103 41 17.46
	15900.00	88.60	179.69	9959.51	6240.30	-6239.02	253.95	0.00	611420.99	739839.68	N 32 40 45.06	W 103 41 17.46
	16000.00	88.60	179.69	9961.95	6340.27	-6338.98	254.50	0.00	611321.03	739840.23	N 32 40 44.07	W 103 41 17.46
	16100.00	88.60	179.69	9964.40	6440.24	-6438.95	255.05	0.00	611221.07	739840.78	N 32 40 43.08	W 103 41 17.46
	16200.00	88.60	179.69	9966.84	6540.21	-6538.92	255.60	0.00	611121.10	739841.32	N 32 40 42.09	W 103 41 17.46
	16300.00	88.60	179.69	9969.28	6640.18	-6638.89	256.14	0.00	611021.14	739841.87	N 32 40 41.10	W 103 41 17.46
	16400.00	88.60	179.69	9971.73	6740.15	-6738.86	256.69	0.00	610921.17	739842.42	N 32 40 40.11	W 103 41 17.47
	16500.00	88.60	179.69	9974.17	6840.12	-6838.83	257.24	0.00	610821.21	739842.97	N 32 40 39.12	W 103 41 17.47
	16600.00	88.60	179.69	9976.61	6940.09	-6938.80	257.79	0.00	610721.25	739843.52	N 32 40 38.13	W 103 41 17.47
	16700.00	88.60	179.69	9979.06	7040.06	-7038.76	258.34	0.00	610621.28	739844.06	N 32 40 37.14	W 103 41 17.47
	16800.00	88.60	179.69	9981.50	7140.03	-7138.73	258.88	0.00	610521.32	739844.61	N 32 40 36.15	W 103 41 17.47
	16900.00	88.60	179.69	9983.94	7240.00	-7238.70	259.43	0.00	610421.35	739845.16	N 32 40 35.16	W 103 41 17.47
	17000.00	88.60	179.69	9986.38	7339.97	-7338.67	259.98	0.00	610321.39	739845.71	N 32 40 34.17	W 103 41 17.47
	17100.00	88.60	179.69	9988.83	7439.94	-7438.64	260.53	0.00	610221.43	739846.25	N 32 40 33.19	W 103 41 17.47
	17200.00	88.60	179.69	9991.27	7539.91	-7538.61	261.07	0.00	610121.46	739846.80	N 32 40 32.20	W 103 41 17.47
	17300.00	88.60	179.69	9993.71	7639.88	-7638.58	261.62	0.00	610021.50	739847.35	N 32 40 31.21	W 103 41 17.47
	17400.00	88.60	179.69	9996.16	7739.85	-7738.55	262.17	0.00	609921.54	739847.90	N 32 40 30.22	W 103 41 17.47
	17500.00	88.60	179.69	9998.60	7839.82	-7838.51	262.72	0.00	609821.57	739848.44	N 32 40 29.23	W 103 41 17.47
	17600.00	88.60	179.69	10001.04	7939.79	-7938.48	263.27	0.00	609721.61	739848.99	N 32 40 28.24	W 103 41 17.47
	17700.00	88.60	179.69	10003.49	8039.76	-8038.45	263.81	0.00	609621.64	739849.54	N 32 40 27.25	W 103 41 17.47
	17800.00	88.60	179.69	10005.93	8139.73	-8138.42	264.36	0.00	609521.68	739850.09	N 32 40 26.26	W 103 41 17.48
	17900.00	88.60	179.69	10008.37	8239.70	-8238.39	264.91	0.00	609421.72	739850.64	N 32 40 25.27	W 103 41 17.48
	18000.00	88.60	179.69	10010.82	8339.67	-8338.36	265.46	0.00	609321.75	739851.18	N 32 40 24.28	W 103 41 17.48
	18100.00	88.60	179.69	10013.26	8439.64	-8438.33	266.00	0.00	609221.79	739851.73	N 32 40 23.29	W 103 41 17.48
	18200.00	88.60	179.69	10015.70	8539.61	-8538.29	266.55	0.00	609121.82	739852.28	N 32 40 22.30	W 103 41 17.48
	18300.00	88.60	179.69	10018.15	8639.58	-8638.26	267.10	0.00	609021.86	739852.83	N 32 40 21.32	W 103 41 17.48
	18400.00	88.60	179.69	10020.59	8739.55	-8738.23	267.65	0.00	608921.90	739853.37	N 32 40 20.33	W 103 41 17.48
	18500.00	88.60	179.69	10023.03	8839.52	-8838.20	268.20	0.00	608821.93	739853.92	N 32 40 19.34	W 103 41 17.48
	18600.00	88.60	179.69	10025.48	8939.49	-8938.17	268.74	0.00	608721.97	739854.47	N 32 40 18.35	W 103 41 17.48
	18700.00	88.60	179.69	10027.92	9039.46	-9038.14	269.29	0.00	608622.00	739855.02	N 32 40 17.36	W 103 41 17.48
	18800.00	88.60	179.69	10030.36	9139.43	-9138.11	269.84	0.00	608522.04	739855.57	N 32 40 16.37	W 103 41 17.48
	18900.00	88.60	179.69	10032.81	9239.40	-9238.08	270.39	0.00	608422.08	739856.11	N 32 40 15.38	W 103 41 17.48
	19000.00	88.60	179.69	10035.25	9339.37	-9338.04	270.93	0.00	608322.11	739856.66	N 32 40 14.39	W 103 41 17.48
	19100.00	88.60	179.69	10037.69	9439.34	-9438.01	271.48	0.00	608222.15	739857.21	N 32 40 13.40	W 103 41 17.48
	19200.00	88.60	179.69	10040.14	9539.31	-9537.98	272.03	0.00	608122.19	739857.76	N 32 40 12.41	W 103 41 17.48
	19300.00	88.60	179.69	10042.58	9639.28	-9637.95	272.58	0.00	608022.22	739858.30	N 32 40 11.42	W 103 41 17.49
	19400.00	88.60	179.69	10045.02	9739.25	-9737.92	273.13	0.00	607922.26	739858.85	N 32 40 10.44	W 103 41 17.49
	19500.00	88.60	179.69	10047.47	9839.22	-9837.89	273.67	0.00	607822.29	739859.40	N 32 40 9.45	W 103 41 17.49
	19600.00	88.60	179.69	10049.91	9939.19	-9937.86	274.22	0.00	607722.33	739859.95	N 32 40 8.46	W 103 41 17.49
	19700.00	88.60	179.69	10052.35	10039.16	-10037.82	274.77	0.00	607622.37	739860.50	N 32 40 7.47	W 103 41 17.49
	19800.00	88.60	179.69	10054.80	10139.13	-10137.79	275.32	0.00	607522.40	739861.04	N 32 40 6.48	W 103 41 17.49
	19900.00	88.60	179.69	10057.24	10239.10	-10237.76	275.86	0.00	607422.44	739861.59	N 32 40 5.49	W 103 41 17.49
	20000.00	88.60	179.69	10059.68	10339.07	-10337.73	276.41	0.00	607322.47	739862.14	N 32 40 4.50	W 103 41 17.49
Bel-Air 5-8 Fed 2BS Com 6H - BHL	20036.73	88.60	179.69	10060.58	10375.79	-10374.45	276.61	0.00	607285.76	739862.34	N 32 40 4.14	W 103 41 17.49

Survey Type: Non-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	17.500	13.375		NAL_MWD_1.0_DEG-Depth Only	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20
	1	26.000	1500.000	1/100.000	17.500	13.375		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	1500.000	9300.000	1/100.000	12.250	9.625		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	9300.000	10160.000	1/100.000	8.750	7.000		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS
	1	10160.000	20036.728	1/100.000	8.500	5.500		NAL_MWD_1.0_DEG	Bel-Air 5-8 Fed 2BS Com 6H / Chisholm Bel-Air 5-8 Fed 2BS

Schlumberger

CHISHOLM ENERGY

Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 Anti-Collision Summary Report

Analysis Date-24hr Time:	November 20, 2020 - 17:03	**Analysis Method:**	3D Least Distance
Client:	Chisholm	**Reference Trajectory:**	Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 (Non-Def Plan)
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Chisholm Bel-Air 5-8 Fed 2BS Com Pad	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	New Slot	**Min Pts:**	All local minima indicated.
Well:	Bel-Air 5-8 Fed 2BS Com 6H	**Version / Patch:**	2.10.821.3
Borehole:	Bel-Air 5-8 Fed 2BS Com 6H	**Database \ Project:**	localhost\drilling-project1
Scan MD Range:	0.00ft ~ 20036.73ft		

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria
Wellhead distance scan: Not performed!
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	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
API 30-025-26008 Legacy Nellis Federal #009 Inc 0' to 13687'MD - A (Def Survey)													Fail Major
	1934.28	32.81	1932.30	1901.47	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1933.98	32.81	1931.97	1901.17	56612.17	MAS = 10.00 (m)	20.00	20.00				MinPt-O-SF	
	1933.93	32.81	1931.92	1901.12	63799.37	MAS = 10.00 (m)	26.00	26.00				WRP	
	1932.97	32.81	1912.65	1900.16	105.28	MAS = 10.00 (m)	590.00	590.00				MinPts	
	1953.78	133.53	1864.18	1820.25	22.22	OSF1.50	2620.00	2615.33				MINPT-O-EOU	
	1958.09	138.68	1865.05	1819.41	21.43	OSF1.50	2740.00	2734.67				MinPt-O-ADP	
	1966.20	199.36	1832.71	1766.84	14.91	OSF1.50	3880.00	3871.69				MinPt-CtCt	
	1966.57	200.38	1832.39	1766.19	14.84	OSF1.50	3930.00	3921.69				MINPT-O-EOU	
	1966.92	200.78	1832.48	1766.14	14.81	OSF1.50	3950.00	3941.69				MinPt-O-ADP	
	1971.60	262.68	1795.89	1708.92	11.32	OSF1.50	5120.00	5111.69				MinPt-CtCt	
	1969.52	357.92	1730.32	1611.60	8.29	OSF1.50	6950.00	6941.69				MinPt-CtCt	
	1968.18	457.45	1662.62	1510.73	6.47	OSF1.50	8860.00	8851.69				MinPt-CtCt	
	1673.63	506.17	1335.44	1167.47	4.98	OSF1.50	9860.00	9743.41	OSF<5.00			Enter Alert	
	507.18	512.98	163.96	-5.79	1.48	OSF1.50	11090.00	9841.99		OSF<1.50		Enter Minor	
	339.92	516.38	-5.48	-176.46	0.98	OSF1.50	11310.00	9847.37			OSF<1.00	Enter Major	
	265.70	522.22	-83.06	-256.51	0.76	OSF1.50	11520.00	9852.50				MinPts	
	343.66	520.17	-3.65	-176.51	0.99	OSF1.50	11740.00	9857.87			OSF>1.00	Exit Major	
	512.26	515.96	167.75	-3.70	1.49	OSF1.50	11960.00	9863.25		OSF>1.50		Exit Minor	
	1698.85	511.03	1357.63	1187.82	5.00	OSF1.50	13200.00	9893.54	OSF>5.00			Exit Alert	
	8518.76	509.28	8178.70	8009.47	25.17	OSF1.50	20036.73	10060.58				TD	
API 30-025-01662 Pre-Ongard Well #001Y Blind 0' to 4305'MD - P (Def Survey)													Fail Major
	701.92	32.81	699.94	669.11	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	701.62	32.81	699.60	668.81	17571.03	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	701.46	32.81	699.45	668.65	23417.55	MAS = 10.00 (m)	20.00	20.00				MINPT-O-EOU	
	701.44	32.81	699.46	668.63	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	701.44	214.11	558.04	487.32	4.95	OSF1.50	750.00	750.00	OSF<5.00			Enter Alert	
	691.09	693.94	227.88	-2.84	1.49	OSF1.50	2280.00	2277.19		OSF<1.50		Enter Minor	
	685.41	959.68	45.04	-274.27	1.07	OSF1.50	3130.00	3122.53				MinPt-CtCt	
	685.65	1028.58	-0.65	-342.93	1.00	OSF1.50	3350.00	3341.78			OSF<1.00	Enter Major	
	685.81	1339.47	-207.75	-653.66	0.77	OSF1.50	4340.00	4331.69				MinPts	
	779.58	1178.60	-6.73	-399.01	0.99	OSF1.50	4710.00	4701.69			OSF>1.00	Exit Major	
	952.29	965.21	308.23	-12.92	1.48	OSF1.50	5000.00	4991.69		OSF>1.50		Exit Minor	
	1741.42	528.78	1388.32	1212.64	4.95	OSF1.50	5940.00	5931.69	OSF>5.00			Exit Alert	
	5554.78	179.21	5434.77	5375.57	46.90	OSF1.50	10910.00	9837.59				MINPT-O-EOU	
	5633.10	273.82	5450.02	5359.28	31.03	OSF1.50	11330.00	9847.85				MinPt-O-ADP	
	7860.06	940.70	7232.38	6919.35	12.55	OSF1.50	15700.00	9954.62				MinPt-O-SF	
	11373.61	1162.80	10597.88	10210.82	14.69	OSF1.50	20036.73	10060.58				TD	
API 30-025-01663 Legacy Nellis Federal #001 Blind 0' to 13723'MD - A (Def Survey)													Fail Major
	4892.77	32.81	4890.79	4859.96	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	4892.73	32.81	4890.74	4859.92	856541.27	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	4892.71	32.81	4890.72	4859.90	N/A	MAS = 10.00 (m)	20.00	20.00				MINPT-O-EOU	
	4892.70	32.81	4890.72	4859.89	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	4892.70	449.67	4592.34	4443.03	16.38	OSF1.50	1500.00	1500.00				MinPt-CtCt	
	4908.05	1474.84	3924.23	3433.21	5.00	OSF1.50	4770.00	4761.69	OSF<5.00			Enter Alert	
	3075.08	3078.44	1021.35	-3.37	1.50	OSF1.50	11570.00	9853.72		OSF<1.50		Enter Minor	
	2058.02	3092.38	-5.19	-1034.36	1.00	OSF1.50	12890.00	9885.97			OSF<1.00	Enter Major	
	1580.35	3109.55	-493.30	-1529.20	0.76	OSF1.50	14210.00	9918.22				MinPts	
	1580.39	3109.65	-493.31	-1529.26	0.76	OSF1.50	14220.00	9918.46				MinPts	
	2079.05	3120.09	-1.55	-1041.04	1.00	OSF1.50	15560.00	9951.20			OSF>1.00	Exit Major	
	3120.30	3126.06	1035.73	-5.76	1.50	OSF1.50	16900.00	9983.94		OSF>1.50		Exit Minor	
	6036.82	3146.01	3938.94	2890.81	2.88	OSF1.50	20036.73	10060.58				TD	
Chisholm Bel-Air 5-8 Fed 2BS Com 5H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	29.98	24.23	28.69	5.75	N/A	MAS = 7.38 (m)	0.00	0.00	CtCt<=15m<15.00			Enter Alert	
	29.96	24.23	28.68	5.74	N/A	MAS = 7.38 (m)	26.00	26.00				WRP	
	29.96	24.23	19.71	5.74	3.20	MAS = 7.38 (m)	1490.00	1490.00				MinPts	
	29.96	24.23	19.87	5.74	3.20	MAS = 7.38 (m)	1500.00	1500.00				MinPts	
	30.05	24.23	19.98	5.83	3.20	MAS = 7.38 (m)	1520.00	1520.00				MinPt-O-SF	
	48.59	24.23	38.15	24.37	5.03	MAS = 7.38 (m)	1780.00	1779.75	CtCt<=15m>15.00			Exit Alert	
	370.51	60.10	330.11	310.41	9.38	OSF1.50	9110.00	9101.69				MinPts	
	370.63	60.15	330.21	310.48	9.37	OSF1.50	9120.00	9111.69				MinPt-O-SF	
	1320.51	397.16	1055.41	923.35	5.00	OSF1.50	13990.00	9912.84	OSF<5.00			Enter Alert	
	1324.01	962.64	681.92	361.37	2.06	OSF1.50	20036.73	10060.58				MinPts	
Chisholm Bel-Air 5-8 Fed 1BS Com 2H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	99.98	32.81	98.69	67.17	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	99.98	32.81	98.69	67.17	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	99.98	32.81	89.72	67.17	11.01	MAS = 10.00 (m)	1490.00	1490.00				MINPT-O-EOU	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	74.66	32.81	58.85	41.85	4.97	MAS = 10.00 (m)	3050.00	3042.97	OSF<5.00			Enter Alert	
	39.26	32.81	18.51	6.45	1.94	MAS = 10.00 (m)	3900.00	3891.69				MinPts	
	39.27	32.81	18.48	6.46	1.93	MAS = 10.00 (m)	3910.00	3901.69				MINPT-O-EOU	
	39.30	32.81	18.49	6.50	1.93	MAS = 10.00 (m)	3920.00	3911.69				MinPt-O-SF	
	64.91	56.11	27.17	8.80	1.74	OSF1.50	8450.00	8441.69				MinPt-CtCt	
	64.99	56.33	27.11	8.66	1.73	OSF1.50	8480.00	8471.69				MINPT-O-EOU	
	65.08	56.42	27.13	8.65	1.73	OSF1.50	8490.00	8481.69				MinPts	
	159.24	50.43	125.29	108.81	4.80	OSF1.50	8840.00	8831.69	OSF>5.00			Exit Alert	
	964.83	290.32	770.96	674.51	5.00	OSF1.50	19560.00	10048.93	OSF<5.00			Enter Alert	
	970.59	304.62	767.18	665.96	4.79	OSF1.50	20030.00	10060.41				MinPts	
	970.73	304.69	767.28	666.04	4.79	OSF1.50	20036.73	10060.58				MinPt-O-SF	
Chisholm Bel-Air 5-8 Fed 1BS Com 1H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	104.58	32.81	103.29	71.77	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	104.57	32.81	103.29	71.76	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	104.57	32.81	94.32	71.76	11.52	MAS = 10.00 (m)	1490.00	1490.00				MINPT-O-EOU	
	104.57	32.81	94.48	71.76	11.47	MAS = 10.00 (m)	1500.00	1500.00				MinPts	
	104.60	32.81	94.43	71.79	11.37	MAS = 10.00 (m)	1520.00	1520.00				MINPT-O-EOU	
	105.37	32.81	94.90	72.56	11.09	MAS = 10.00 (m)	1600.00	1599.99				MinPt-O-SF	
	597.03	41.40	569.10	555.63	22.12	OSF1.50	5940.00	5931.69				MinPt-O-SF	
	614.03	53.43	578.08	560.60	17.53	OSF1.50	8240.00	8231.69				MinPts	
	615.41	53.67	579.31	561.74	17.49	OSF1.50	8290.00	8281.69				MinPt-O-SF	
	1540.18	49.82	1506.63	1490.35	47.27	OSF1.50	10180.00	9819.76				MinPt-O-SF	
	1617.18	485.98	1292.87	1131.20	5.00	OSF1.50	15990.00	9961.71	OSF<5.00			Enter Alert	
	1642.16	794.40	1112.23	847.76	3.10	OSF1.50	20036.73	10060.58				MinPts	
API 30-025-25912 Pre-Ongard Well #004 Inc 0' to 13700'MD - P (Def Survey)													Warning Alert
	7239.65	32.81	7237.67	7206.84	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7239.42	32.81	7237.41	7206.61	230366.68	MAS = 10.00 (m)	26.00	26.00				MinPt-O-SF	
	7239.25	32.81	7237.13	7206.44	52605.48	MAS = 10.00 (m)	80.00	80.00				MinPts	
	7239.34	66.39	7194.42	7172.95	168.54	OSF1.50	1430.00	1430.00				MinPt-CtCt	
	7241.97	76.74	7190.22	7165.23	144.85	OSF1.50	1670.00	1669.94				MINPT-O-EOU	
	7245.65	81.16	7190.95	7164.48	136.85	OSF1.50	1770.00	1769.78				MinPt-O-ADP	
	7283.07	124.60	7199.41	7158.47	88.91	OSF1.50	2470.00	2466.15				MinPt-O-ADP	
	7324.49	162.43	7215.62	7162.06	68.36	OSF1.50	3200.00	3192.18				MinPts	
	7334.93	228.41	7182.07	7106.52	48.53	OSF1.50	4570.00	4561.69				MinPt-CtCt	
	7334.49	347.41	7102.30	6987.08	31.82	OSF1.50	6860.00	6851.69				MinPt-CtCt	
	7335.72	424.97	7051.82	6910.75	25.99	OSF1.50	8350.00	8341.69				MinPt-CtCt	
	1840.65	559.54	1464.92	1281.11	4.98	OSF1.50	15350.00	9946.07	OSF<5.00			Enter Alert	
	1067.79	693.72	604.77	374.06	2.31	OSF1.50	16850.00	9982.72				MinPt-CtCt	
	1067.96	694.47	604.44	373.48	2.31	OSF1.50	16870.00	9983.21				MINPT-O-EOU	
	1068.18	694.81	604.44	373.38	2.31	OSF1.50	16880.00	9983.45				MinPt-O-ADP	
	1068.92	695.39	604.79	373.52	2.31	OSF1.50	16900.00	9983.94				MinPt-O-SF	
	1981.21	597.30	1582.48	1383.91	4.98	OSF1.50	18520.00	10023.52	OSF>5.00			Exit Alert	
	3359.53	555.30	2988.80	2804.23	9.10	OSF1.50	20036.73	10060.58				TD	
API 30-025-12565 Pre-Ongard Well #001 Blind 0' to 495'MD - P (Def Survey)													Pass
	734.75	32.81	732.77	701.95	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	734.47	32.81	732.45	701.66	19257.32	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	734.32	32.81	732.31	701.51	25665.94	MAS = 10.00 (m)	20.00	20.00				MINPT-O-EOU	
	734.29	32.81	732.31	701.49	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	734.29	141.81	639.10	592.49	7.86	OSF1.50	520.00	520.00				MinPt-CtCt	
	734.35	142.11	638.95	592.24	7.84	OSF1.50	530.00	530.00				MinPts	
	9302.14	32.81	9287.79	9269.33	729.94	MAS = 10.00 (m)	10160.00	9819.27				MinPt-O-SF	
	9302.75	32.81	9288.41	9269.94	730.00	MAS = 10.00 (m)	10190.00	9820.00				MinPt-O-SF	
	13320.57	179.06	13200.66	13141.51	112.59	OSF1.50	19520.00	10047.95				MinPt-O-SF	
	13695.24	183.79	13572.18	13511.46	112.75	OSF1.50	20036.73	10060.58				TD	
API 30-025-31691 BP Nellis Federal #008 Inc 0' to 3750'MD -P (Def Survey)													Pass
	1005.99	32.81	1004.01	973.18	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	1005.84	32.81	1003.85	973.03	58413.21	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	1005.79	32.81	1003.65	972.98	6280.75	MAS = 10.00 (m)	26.00	26.00				WRP	
	1003.71	32.81	992.59	970.90	109.57	MAS = 10.00 (m)	350.00	350.00				MinPts	
	997.41	102.54	928.46	894.87	14.82	OSF1.50	2070.00	2068.34				MinPt-CtCt	
	1001.39	190.86	873.57	810.54	7.93	OSF1.50	3780.00	3771.69				MinPts	
	6065.64	32.81	6048.20	6032.84	382.92	MAS = 10.00 (m)	10200.00	9820.25				MinPt-O-SF	
	6062.90	32.81	6046.42	6030.09	407.29	MAS = 10.00 (m)	10370.00	9824.40				MINPT-O-EOU	
	6062.89	32.81	6046.42	6030.08	407.89	MAS = 10.00 (m)	10380.00	9824.64				MinPts	
	8577.24	169.11	8463.97	8408.13	76.79	OSF1.50	16450.00	9972.95				MinPt-O-SF	
	11399.83	202.48	11264.31	11197.35	85.11	OSF1.50	20036.73	10060.58				TD	
API 30-025-26799 Legacy Nellis C Federal Gas Com #001 Inc 0' to 13590'MD - A (Def Survey)													Pass
	7835.61	32.81	7833.63	7802.80	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	7835.44	32.81	7833.43	7802.63	338853.77	MAS = 10.00 (m)	26.00	26.00				MinPt-O-SF	
	7833.79	46.46	7802.16	7787.33	264.10	OSF1.50	950.00	950.00				MinPt-CtCt	
	7822.09	215.67	7677.71	7606.41	54.84	OSF1.50	4140.00	4131.69				MinPt-CtCt	
	7818.29	324.95	7601.06	7493.33	36.28	OSF1.50	6260.00	6251.69				MinPt-CtCt	
	7825.62	472.12	7510.29	7353.50	24.95	OSF1.50	9140.00	9131.69				MinPt-CtCt	
	2882.46	695.54	2418.14	2186.92	6.23	OSF1.50	16840.00	9982.48				MinPt-CtCt	
	2883.80	699.48	2416.94	2184.32	6.19	OSF1.50	16930.00	9984.67				MINPT-O-EOU	
	2885.29	701.26	2417.25	2184.03	6.18	OSF1.50	16970.00	9985.65				MinPt-O-ADP	
	2909.77	711.68	2434.79	2198.09	6.14	OSF1.50	17240.00	9992.25				MinPt-O-SF	
	4301.77	696.30	3837.03	3605.47	9.28	OSF1.50	20036.73	10060.58				TD	
API 30-025-01664 Pre-Ongard Well #001 Blind 0' to 3591'MD - P (Def Survey)													Pass
	8550.35	32.81	8548.37	8517.54	N/A	MAS = 10.00 (m)	0.00	0.00				Surface	
	8550.33	32.81	8548.34	8517.52	N/A	MAS = 10.00 (m)	10.00	10.00				MinPt-O-SF	
	8550.31	32.81	8548.33	8517.50	N/A	MAS = 10.00 (m)	20.00	20.00				MINPT-O-EOU	
	8550.31	32.81	8548.33	8517.50	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	8550.31	449.67	8249.95	8100.64	28.63	OSF1.50	1500.00	1500.00				MinPt-CtCt	
	8641.39	1115.05	7897.44	7526.34	11.64	OSF1.50	3630.00	3621.69				MinPts	
	8904.28	796.90	8372.47	8107.37	16.79	OSF1.50	11910.00	9862.02				MinPt-O-SF	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	6484.55	268.17	6305.23	6216.38	36.48	OSF1.50	18000.00	10010.82				MinPt-O-ADP	
	6484.54	268.16	6305.23	6216.38	36.48	OSF1.50	18010.00	10011.06				MinPts	
	6793.23	421.63	6511.61	6371.60	24.25	OSF1.50	20036.73	10060.58				MinPt-O-SF	

Schlumberger

CHISHOLM ENERGY

Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 Anti-Collision Summary Report

Analysis Date-24hr Time:	November 20, 2020 - 17:04	**Analysis Method:**	Normal Plane
Client:	Chisholm	**Reference Trajectory:**	Chisholm Bel-Air 5-8 Fed 2BS Com 6H Rev0 CVS 19Nov20 (Non-Def Plan)
Field:	NM Lea County (NAD 83)	**Depth Interval:**	Every 10.00 Measured Depth (ft)
Structure:	Chisholm Bel-Air 5-8 Fed 2BS Com Pad	**Rule Set:**	NAL Procedure: D&M AntiCollision Standard S002
Slot:	New Slot	**Min Pts:**	All local minima indicated.
Well:	Bel-Air 5-8 Fed 2BS Com 6H	**Version / Patch:**	2.10.821.3
Borehole:	Bel-Air 5-8 Fed 2BS Com 6H	**Database \ Project:**	localhost\drilling-project1
Scan MD Range:	0.00ft ~ 20036.73ft		

Trajectory Error Model: ISCWSA0 3-D 95.000% Confidence 2.7955 sigma

Offset Trajectories Summary

Offset Selection Criteria
Wellhead distance scan: Not performed!
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	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
API 30-025-26008 Legacy Nellis Federal #009 Inc 0' to 13687'MD - A (Def Survey)													Fail Major
	1932.97	32.81	1912.70	1900.16	105.57	MAS = 10.00 (m)	588.88	588.88				MinPts	
	1954.58	136.20	1863.19	1818.38	21.79	OSF1.50	2612.88	2608.25				MINPT-O-EOU	
	1960.53	143.37	1864.36	1817.15	20.75	OSF1.50	2741.90	2736.56				MinPt-O-ADP	
	1966.20	199.19	1832.82	1767.01	14.92	OSF1.50	3876.67	3868.36				MinPt-CtCt	
	1971.60	263.02	1795.67	1708.58	11.31	OSF1.50	5126.55	5118.24				MinPt-CtCt	
	1969.52	357.74	1730.44	1611.78	8.29	OSF1.50	6946.52	6938.21				MinPt-CtCt	
	1968.18	457.26	1662.75	1510.92	6.48	OSF1.50	8856.36	8848.05				MinPt-CtCt	
	1970.33	477.41	1651.47	1492.92	6.21	OSF1.50	9246.33	9238.02				MinPts	
	1970.27	476.88	1651.76	1493.39	6.21	OSF1.50	9253.38	9245.07				MinPt-CtCt	
	648.99	201.31	514.25	447.68	4.86	OSF1.50	11512.71	9852.32	OSF<5.00			Enter Alert	
	366.74	367.80	121.00	-1.06	1.50	OSF1.50	11521.23	9852.53		OSF<1.50		Enter Minor	
	301.88	452.41	-0.30	-150.54	1.00	OSF1.50	11522.13	9852.55			OSF<1.00	Enter Major	
	281.68	487.58	-43.98	-205.91	0.86	OSF1.50	11522.26	9852.55	OSF>5.00	OSF>1.50	OSF>1.00	Exit Major	
	293.47	478.35	-25.96	-184.87	0.92	OSF1.50	11521.19	9852.53	OSF<5.00	OSF<1.50	OSF<1.00	Enter Major	
	265.77	522.45	-83.14	-256.68	0.76	OSF1.50	11521.99	9852.55				MinPts	
	265.73	521.96	-82.86	-256.24	0.76	OSF1.50	11522.05	9852.55				MinPt-CtCt	
	302.25	464.92	-8.23	-162.67	0.97	OSF1.50	11521.23	9852.53			OSF>1.00	Exit Major	
	371.96	377.22	119.95	-5.26	1.48	OSF1.50	11523.06	9852.57		OSF>1.50		Exit Minor	
	682.18	208.55	542.61	473.63	4.93	OSF1.50	11539.06	9852.96	OSF>5.00			Exit Alert	
	3878.97	69.05	3832.40	3809.92	86.23	OSF1.50	11619.14	9854.92				TD	
	2348.98	86.61	2290.71	2262.37	41.42	OSF1.50	11580.88	9853.98				MinPts	
API 30-025-01662 Pre-Ongard Well #001Y Blind 0' to 4305'MD - P (Def Survey)													Fail Major
	701.44	32.81	699.46	668.63	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	701.44	212.85	558.87	488.58	4.98	OSF1.50	746.00	746.00	OSF<5.00			Enter Alert	
	691.05	693.50	228.12	-2.46	1.49	OSF1.50	2288.06	2285.21		OSF<1.50		Enter Minor	
	685.41	957.63	46.41	-272.21	1.07	OSF1.50	3123.46	3116.03				MinPt-CtCt	
	685.66	1029.91	-1.53	-344.25	1.00	OSF1.50	3353.27	3345.05			OSF<1.00	Enter Major	
	685.81	1339.47	-207.75	-653.66	0.77	OSF1.50	4339.31	4331.00				MinPts	
API 30-025-01663 Legacy Nellis Federal #001 Blind 0' to 13723'MD - A (Def Survey)													Fail Major
	4892.70	32.81	4890.72	4859.89	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	4892.70	448.63	4592.96	4444.07	16.42	OSF1.50	1496.00	1496.00				MinPt-CtCt	
	4908.05	1476.20	3923.33	3431.85	4.99	OSF1.50	4774.31	4766.00	OSF<5.00			Enter Alert	
	4908.05	2881.31	2986.59	2026.74	2.56	OSF1.50	9244.31	9236.00				MinPts	
	5698.64	1711.35	4557.20	3987.29	5.00	OSF1.50	9572.41	9547.10	OSF>5.00			Exit Alert	
	3383.10	1020.61	2702.16	2362.49	4.98	OSF1.50	14135.59	9916.40	OSF<5.00			Enter Alert	
	2060.25	2069.35	680.15	-9.10	1.49	OSF1.50	14176.40	9917.40		OSF<1.50		Enter Minor	
	1741.63	2614.04	-1.59	-872.41	1.00	OSF1.50	14190.81	9917.75			OSF<1.00	Enter Major	
	1580.35	3108.85	-492.83	-1528.50	0.76	OSF1.50	14208.65	9918.19				MinPt-CtCt	
	1585.51	3139.27	-507.93	-1553.76	0.76	OSF1.50	14211.82	9918.26				MinPt-O-SF	
	1586.34	3140.73	-508.07	-1554.38	0.76	OSF1.50	14212.07	9918.27				MINPT-O-EOU	
	1589.23	3144.35	-507.59	-1555.12	0.76	OSF1.50	14212.80	9918.29				MinPt-O-ADP	
	1901.53	2860.53	-6.03	-959.00	1.00	OSF1.50	14234.54	9918.82			OSF>1.00	Exit Major	
	2408.31	2416.47	796.80	-8.16	1.49	OSF1.50	14253.11	9919.27		OSF>1.50		Exit Minor	
	4142.93	1650.14	3042.30	2492.79	3.77	OSF1.50	14302.30	9920.47				TD	
Chisholm Bel-Air 5-8 Fed 2BS Com 5H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	29.96	24.23	28.68	5.74	N/A	MAS = 7.38 (m)	1.00	1.00	CtCt<=15m<15.00			Enter Alert	
	29.96	24.23	19.71	5.74	3.20	MAS = 7.38 (m)	1491.00	1491.00				MinPts	
	29.99	24.23	19.94	5.76	3.20	MAS = 7.38 (m)	1510.92	1510.92				MINPT-O-EOU	
	30.06	24.23	19.98	5.84	3.20	MAS = 7.38 (m)	1520.85	1520.85				MinPt-O-SF	
	48.73	24.23	38.28	24.50	5.05	MAS = 7.38 (m)	1777.78	1777.53	CtCt<=15m>15.00			Exit Alert	
	370.49	60.08	330.11	310.41	9.38	OSF1.50	9103.83	9095.52				MinPts	
	370.71	60.15	330.28	310.56	9.37	OSF1.50	9119.63	9111.32				MinPt-O-SF	
	1320.51	396.96	1055.55	923.55	5.00	OSF1.50	13987.73	9912.79	OSF<5.00			Enter Alert	
	1324.01	962.59	681.95	361.41	2.06	OSF1.50	20035.93	10060.56				MinPts	
Chisholm Bel-Air 5-8 Fed 1BS Com 2H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	99.98	32.81	89.72	67.17	11.00	MAS = 10.00 (m)	1490.30	1490.30				MinPts	
	74.74	32.81	58.96	41.93	4.99	MAS = 10.00 (m)	3045.39	3038.39	OSF<5.00			Enter Alert	
	39.26	32.81	18.48	6.45	1.94	MAS = 10.00 (m)	3906.87	3898.56				MinPts	
	39.29	32.81	18.48	6.48	1.93	MAS = 10.00 (m)	3916.81	3908.50				MinPts	
	64.91	56.08	27.19	8.83	1.74	OSF1.50	8444.52	8436.21				MinPt-CtCt	
	64.96	56.29	27.11	8.68	1.74	OSF1.50	8474.37	8466.06				MINPT-O-EOU	
	65.03	56.37	27.12	8.65	1.73	OSF1.50	8484.29	8475.98				MinPt-O-ADP	
	65.13	56.47	27.16	8.66	1.73	OSF1.50	8494.18	8485.87				MinPt-O-SF	
	191.90	59.83	151.68	132.07	4.87	OSF1.50	8823.55	8815.24	OSF>5.00			Exit Alert	
	1022.89	54.41	986.29	968.49	28.69	OSF1.50	9623.15	9588.70				MinPt-O-SF	
	849.99	32.81	833.04	817.18	53.20	MAS = 10.00 (m)	10153.80	9819.12				MinPts	

Offset Trajectory	Separation			Allow	Sep.	Controlling	Reference Trajectory		Risk Level			Alert	Status
	Ct-Ct (ft)	MAS (ft)	EOU (ft)	Dev. (ft)	Fact.	Rule	MD (ft)	TVD (ft)	Alert	Minor	Major		
	964.82	290.31	770.95	674.51	5.00	OSF1.50	19553.10	10048.76	OSF<5.00			Enter Alert	
	970.44	304.40	767.18	666.04	4.79	OSF1.50	20013.01	10060.00				MinPts	
Chisholm Bel-Air 5-8 Fed 1BS Com 1H Rev0 CVS 19Nov20 (Non-Def Plan)													Warning Alert
	104.57	32.81	94.32	71.76	11.51	MAS = 10.00 (m)	1490.90	1490.90				MinPts	
	104.61	32.81	94.43	71.80	11.37	MAS = 10.00 (m)	1520.52	1520.52				MINPT-O-EOU	
	105.37	32.81	94.98	72.56	11.10	MAS = 10.00 (m)	1599.02	1599.01				MinPt-O-SF	
	594.65	41.26	566.82	553.39	22.11	OSF1.50	5886.57	5878.26				MinPt-O-SF	
	614.01	53.40	578.08	560.61	17.54	OSF1.50	8235.84	8227.53				MinPts	
	614.99	53.57	578.95	561.42	17.52	OSF1.50	8265.81	8257.51				MinPt-O-SF	
	1581.67	68.24	1535.85	1513.43	35.25	OSF1.50	10154.13	9819.13				MinPts	
	1617.23	486.49	1292.58	1130.74	4.99	OSF1.50	15993.76	9961.80	OSF<5.00			Enter Alert	
	1642.01	793.27	1112.84	848.75	3.11	OSF1.50	20014.64	10060.04				MinPts	
API 30-025-25912 Pre-Ongard Well #004 Inc 0' to 13700'MD - P (Def Survey)													Warning Alert
	7239.25	32.81	7237.16	7206.44	65017.25	MAS = 10.00 (m)	76.10	76.10				MinPts	
	7239.34	66.69	7194.22	7172.65	167.77	OSF1.50	1436.09	1436.09				MinPt-CtCt	
	7248.49	92.35	7186.33	7156.14	120.00	OSF1.50	1716.10	1715.99				MINPT-O-EOU	
	7282.05	130.84	7194.24	7151.21	84.60	OSF1.50	2274.99	2272.20				MinPt-O-ADP	
	7323.13	168.25	7210.38	7154.88	65.96	OSF1.50	2990.99	2984.28				MinPt-O-ADP	
	7332.29	176.61	7213.96	7155.68	62.89	OSF1.50	3151.67	3144.08				MinPt-O-SF	
	7331.80	176.27	7213.70	7155.53	63.01	OSF1.50	3314.84	3306.68				MinPts	
	7331.53	175.79	7213.75	7155.74	63.18	OSF1.50	3554.31	3546.00				MinPt-CtCt	
	7334.93	228.58	7181.96	7106.35	48.50	OSF1.50	4574.24	4565.93				MinPt-CtCt	
	7334.49	347.59	7102.18	6986.91	31.81	OSF1.50	6864.18	6855.87				MinPt-CtCt	
	7335.72	424.67	7052.02	6911.05	26.01	OSF1.50	8344.16	8335.85				MinPt-CtCt	
	7339.58	471.70	7024.53	6867.88	23.42	OSF1.50	9248.80	9240.49				MinPts	
	1538.74	465.14	1228.11	1073.60	4.97	OSF1.50	16827.22	9982.16	OSF<5.00			Enter Alert	
	1067.79	693.81	604.72	373.98	2.31	OSF1.50	16850.90	9982.74				MinPt-CtCt	
	1067.88	693.97	604.69	373.90	2.31	OSF1.50	16851.13	9982.75				MinPts	
	1650.47	497.42	1318.32	1153.05	4.99	OSF1.50	16885.26	9983.58	OSF>5.00			Exit Alert	
	1093.36	666.46	648.52	426.90	2.46	OSF1.50	16843.47	9982.56	OSF<5.00			Enter Alert	
	1117.20	649.85	683.43	467.35	2.58	OSF1.50	16843.75	9982.57	OSF>5.00			Exit Alert	
	3909.56	274.49	3726.04	3635.08	21.48	OSF1.50	16945.90	9985.06				MinPts	
API 30-025-12565 Pre-Ongard Well #001 Blind 0' to 495'MD - P (Def Survey)													Pass
	734.29	32.81	732.31	701.49	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	734.29	142.12	638.89	592.17	7.84	OSF1.50	521.00	521.00				MinPts	
API 30-025-31691 BP Nellis Federal #008 Inc 0' to 3750'MD -P (Def Survey)													Pass
	1003.71	32.81	992.60	970.90	109.69	MAS = 10.00 (m)	349.86	349.86				MinPts	
	997.41	102.14	928.73	895.27	14.88	OSF1.50	2062.32	2060.70				MinPt-CtCt	
	6062.89	32.81	6046.43	6030.08	408.04	MAS = 10.00 (m)	10382.84	9824.71				MinPts	
API 30-025-26799 Legacy Nellis C Federal Gas Com #001 Inc 0' to 13590'MD - A (Def Survey)													Pass
	7833.79	46.28	7802.28	7787.51	265.20	OSF1.50	945.89	945.89				MinPt-CtCt	
	7822.09	215.82	7677.62	7606.27	54.80	OSF1.50	4143.87	4135.56				MinPt-CtCt	
	7818.29	324.68	7601.24	7493.61	36.31	OSF1.50	6253.78	6245.47				MinPt-CtCt	
	7825.62	472.26	7510.19	7353.36	24.94	OSF1.50	9143.45	9135.14				MinPt-CtCt	
	7825.78	477.48	7506.87	7348.30	24.67	OSF1.50	9243.45	9235.14				MINPT-O-EOU	
	7825.78	477.48	7506.87	7348.30	24.67	OSF1.50	9248.81	9240.50				MinPts	
	7825.77	476.97	7507.20	7348.80	24.70	OSF1.50	9249.61	9241.30				MinPt-CtCt	
	2882.46	695.83	2417.95	2186.63	6.23	OSF1.50	16842.19	9982.53				MinPt-CtCt	
	2883.23	698.09	2417.21	2185.14	6.21	OSF1.50	16844.07	9982.58				MINPT-O-EOU	
	2884.10	699.10	2417.41	2184.99	6.20	OSF1.50	16844.99	9982.60				MinPt-O-ADP	
	2893.36	703.09	2424.04	2190.27	6.18	OSF1.50	16849.41	9982.71				MinPt-O-SF	
	4666.33	538.75	4306.63	4127.58	13.03	OSF1.50	16928.43	9984.64				TD	
	3072.64	696.20	2607.97	2376.44	6.63	OSF1.50	16863.79	9983.06				MinPts	
API 30-025-01664 Pre-Ongard Well #001 Blind 0' to 3591'MD - P (Def Survey)													Pass
	8550.31	32.81	8548.33	8517.50	N/A	MAS = 10.00 (m)	26.00	26.00				WRP	
	8550.31	448.63	8250.56	8101.68	28.71	OSF1.50	1496.00	1496.00				MinPt-CtCt	
	8643.27	1113.68	7900.23	7529.60	11.66	OSF1.50	3193.59	3185.80				MinPts	
	6484.54	268.16	6305.23	6216.38	36.48	OSF1.50	18012.20	10011.12				MinPts	

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**CHISHOLM ENERGY OPERATING, LLC**
LEASE NO.:	**NMNM077002**
WELL NAME & NO.:	BEL AIR 5-8 FED 2BS COM 6H
SURFACE HOLE FOOTAGE:	125'/N & 1500'/W
BOTTOM HOLE FOOTAGE	100'/S & 1720'/W
LOCATION:	Section 5, T.19 S., R.33 E., NMPM
COUNTY:	LEA County, New Mexico

COA

H2S	◉ Yes	○ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	◉ Low	○ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☑ Fluid Filled	☑ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design/Alternate Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **1500 feet** (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after

Approval Date: 11/12/2021

completing the cement job.

b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **9 5/8** inch Intermediate acsing shall be set at **5300 feet**. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

❖ **Operator has proposed to pump down 13-3/8" X 9-5/8" annulus. Operator must run a CBL from TD of the** Choose an item.**" casing to surface. Submit results to BLM.**

❖ **Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

Approval Date: 11/12/2021

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

Option 1 (Single Stage):

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. **BOP REQUIREMENTS.**

Option 1

a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M)** psi.

b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

Option 2

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

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

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

   a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
   b. When the operator proposes to set surface casing with Spudder Rig

- Notify the BLM when moving in and removing the Spudder Rig.
- Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
- BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
c. Manufacturer representative shall install the test plug for the initial BOP test.
d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).

c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

e. The results of the test shall be reported to the appropriate BLM office.

f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

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

RI10232021

Approval Date: 11/12/2021

PECOS DISTRICT
SURFACE USE
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Chisholm Energy Operating LLC
LEASE NO.:	NMNM 007702
COUNTY:	Lea

Wells:

Bel-Air 5-8 2BS Fed Com 5H
Surface Hole Location: 125' FNL & 1470' FWL, Section 5, T. 19 S., R. 33 E.
Bottom Hole Location: 100' FSL & 400' FWL, Section 8, T. 19 S, R 33 E.

Bel-Air 5-8 2BS Fed Com 6H
Surface Hole Location: 125' FNL & 1500' FWL, Section 5, T. 19 S., R. 33 E.
Bottom Hole Location: 100' FSL & 1720' FWL, Section 8, T. 19 S, R 33 E.

Bel-Air 5-8 2BS Fed Com 7H
Surface Hole Location: 225' FSL & 1685' FEL, Section 32, T. 18 S., R. 33 E.
Bottom Hole Location: 100' FSL & 2240' FEL, Section 8, T. 19 S, R 33 E.

Bel-Air 5-8 2BS Fed Com 8H
Surface Hole Location: 225' FSL & 1655' FEL, Section 32, T. 18 S., R. 33 E.
Bottom Hole Location: 100' FSL & 920' FEL, Section 8, T. 19 S, R 33 E.

TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

Approval Date: 11/12/2021

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

Range:

Cattleguards

Where a permanent cattlegaurd is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Figure 1. Pipe H-brace specifications

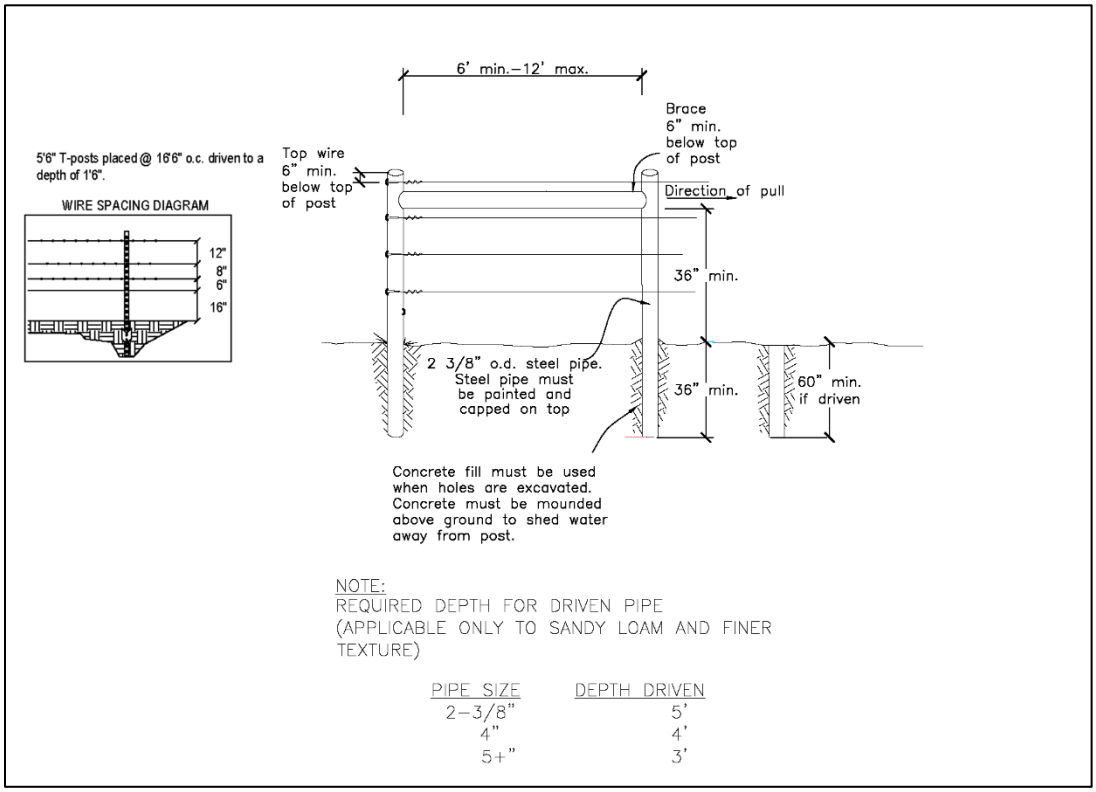
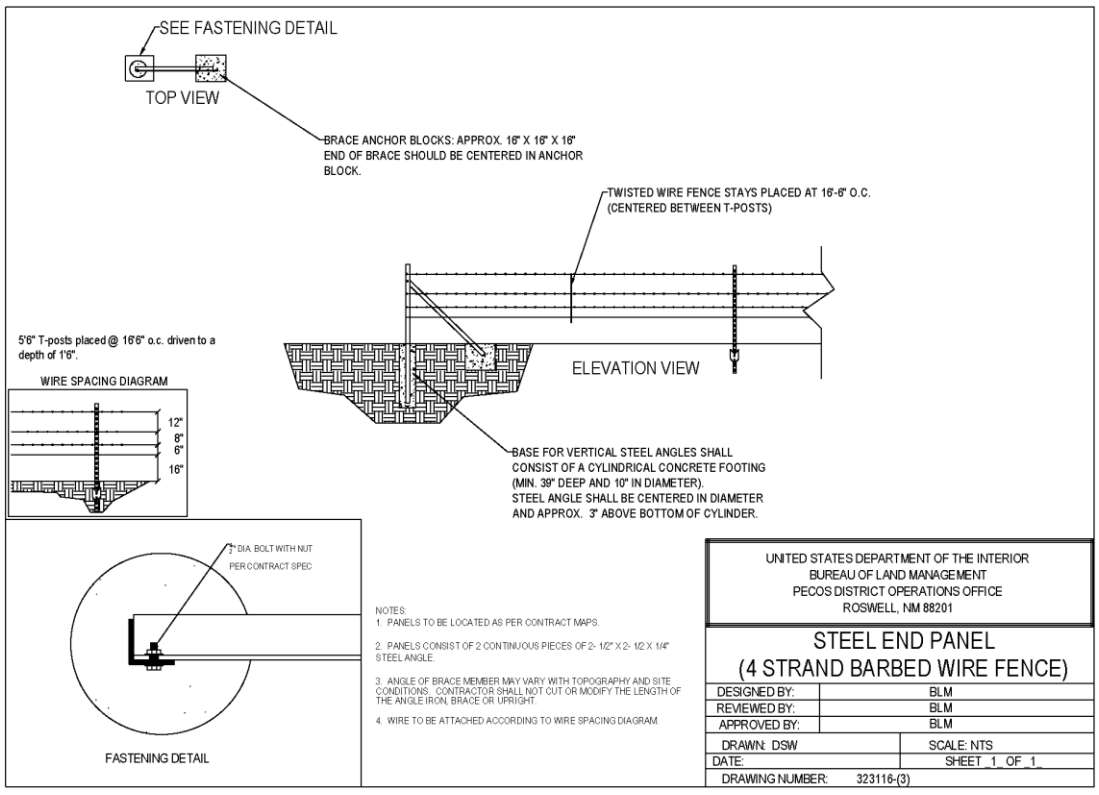


Figure 2. Angle iron brace specifications



Livestock Watering Requirement
Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Lesser Prairie Chicken:
Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:
Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:
The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:
Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

Short-term mitigation measures include painting all above-ground structures that are not subject to safety requirements (including meter housing) Shale Green, which is a flat non-reflective paint color listed in the BLM Standard Environmental Color Chart (CC-001: June 2013). Long-term mitigation measures include the removal of wells and associated infrastructure following abandonment (end of cost-effective production). Previously impacted areas will be reclaimed by removing structures and caliche pads, returning disturbed areas to natural grade, and revegetating with an approved BLM seed mixture; thereby eliminating visual impacts.

Interim Reclamation:

If at any point the BLM determines that additional wells on this pad will not be drilled, **or** that interim reclamation is warranted for any reason, the BLM will issue an order to commence interim reclamation. At that point the operator will be required to submit an interim reclamation plan and to work with BLM surface management specialists to Jim Amos (575-361-2648) to devise the best strategies to reduce the size of the location. Disturbed areas not needed for active, long-term production operations or vehicle travel have been recontoured, protected from erosion, and revegetated with a self- sustaining, vigorous, diverse, native (or as otherwise approved) plant community sufficient to minimize visual impacts, provide forage, stabilize soils, and impede the invasion of noxious, invasive, and non- native weeds. Once these strategies are finalized the operator will be required to conduct interim reclamation.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing
The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing
Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

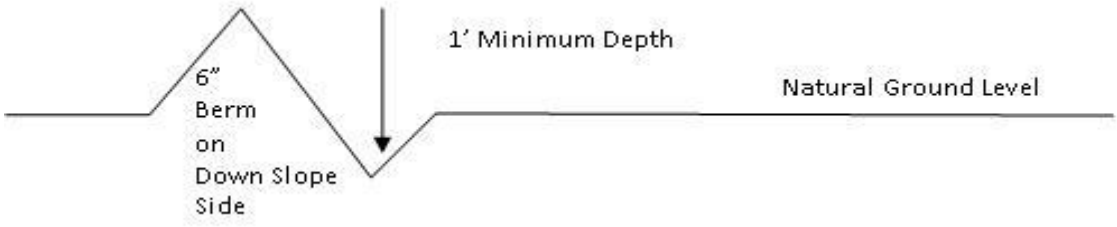
Ditching
Ditching shall be required on both sides of the road.

Turnouts
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage
Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be

determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: $\frac{400'}{4\%}$ + 100' = 200' lead-off ditch interval

Cattle guards
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement
Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access
Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Construction Steps

1. Salvage topsoil
2. Construct road
3. Redistribute topsoil
4. Revegetate slopes

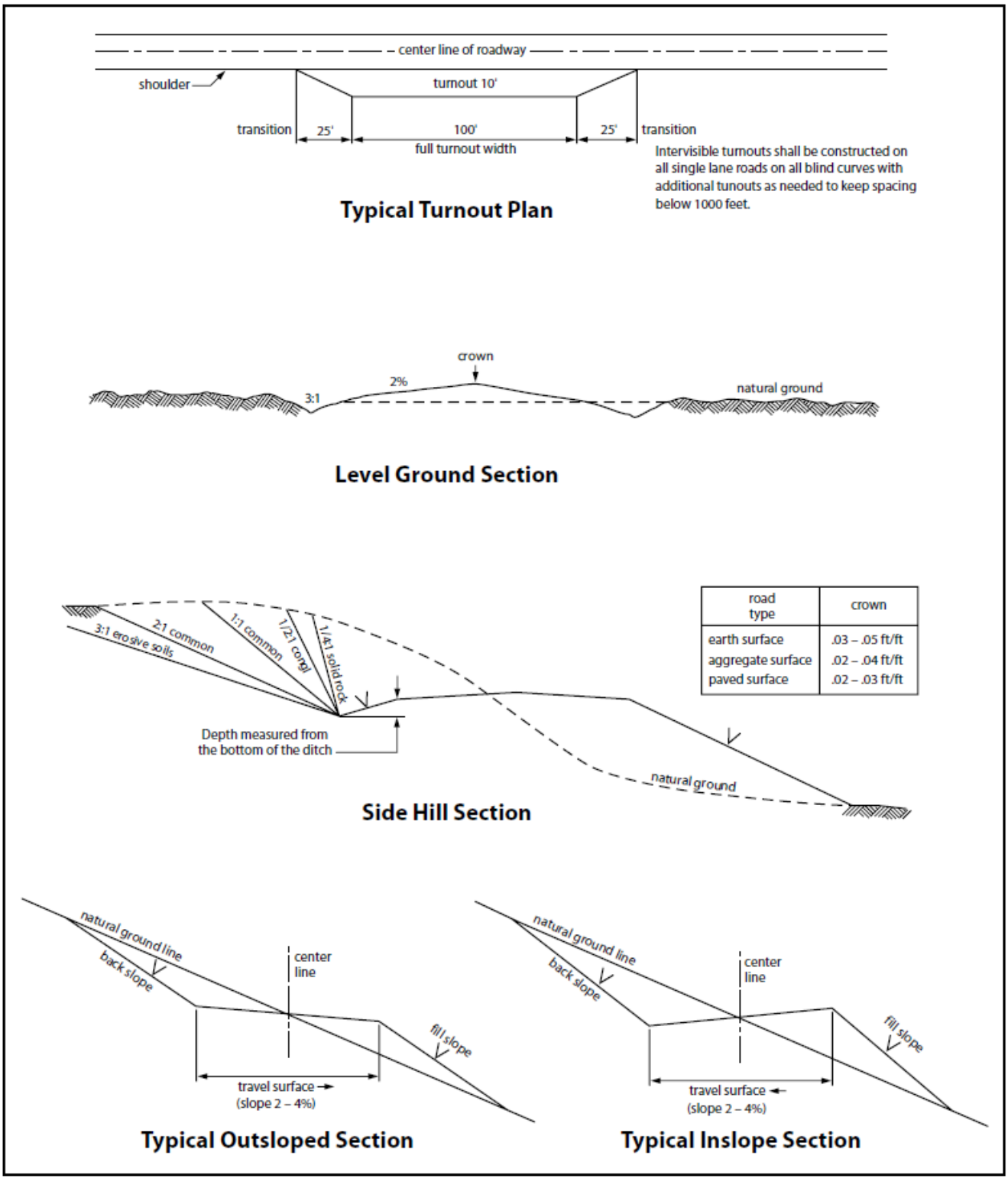


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

Approval Date: 11/12/2021

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities
Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)
Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening
The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures
The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone*.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures
Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement
All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

Holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Approval Date: 11/12/2021

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 (S02). 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 SO,

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H2S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO2	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 sit e. 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 play 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 H25 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	Office:	(817)953-6063
Vice President of Operations-Brad Grandstaff	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

Chisholm Energy Operating, LLC plans to operate a Closed Loop System.

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report
01/05/2022

APD ID: 10400065570
Submission Date: 03/29/2021
Operator Name: CHISHOLM ENERGY OPERATING LLC
Well Name: BEL-AIR 5-8 FED 2BS COM
Well Number: 6H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1167936	RUSTLER	3718	1448	1448	ANHYDRITE	USEABLE WATER	N
1167937	SALADO	1987	1731	1731	SALT	NONE	N
1167939	SEVEN RIVERS	65	3653	3653	ANHYDRITE, DOLOMITE	NATURAL GAS, OIL	N
1167938	CAPITAN REEF	-56	3774	3774	DOLOMITE	NONE	N
1167940	QUEEN	-555	4273	4273	DOLOMITE, LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
1167941	DELAWARE	-2115	5833	5833	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
1167942	BONE SPRING	-3795	7513	7513	LIMESTONE, SHALE	NATURAL GAS, OIL	N
1167943	BONE SPRING	-5105	8823	8823	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
3170238	BONE SPRING 1ST	-5590	9308	9308	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 12000

Equipment: Rotating Head, remote kill line, mud-gas sperator

Requesting Variance? NO

Variance request:

Testing Procedure: BOP will be tested by an independent service company to 250 psi low and 5000 psi high, per onshore order 2. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked each trip out of the hole.

Choke Diagram Attachment:

5M_Choke_Manifold_Diagram_20210329094449.pdf

BOP Diagram Attachment:

5m_BOP_Diagram_2_20210329094455.pdf

Patriot Drilling, LLC

RIG NO. 5

Annular Preventer
13-3/8 5,000 PSI WP

Ram Preventers
13-3/8" 5,000 PSI WP Double Ram
13-3/8" 5,000 PSI WP Single Ram

Test the pipe rams, blind rams, floor valves (IBOP and/or upper Kelly valve), choke lines and manifold to 250 psi/5,000 psi with a test plug and a test pump.

Test the annular to 250 psi/2,500 psi with same as above.

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

COMMENTS

Action 70875

COMMENTS

Operator: CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102	OGRID: 372137
	Action Number: 70875
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
pkautz	HOLD FOR NEW C-102'S	1/7/2022

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CONDITIONS

Action 70875

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Operator: CHISHOLM ENERGY OPERATING, LLC 801 Cherry Street Fort Worth, TX 76102	OGRID: 372137
	Action Number: 70875
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/11/2022
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	1/11/2022
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	1/11/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	1/11/2022