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.

[330276]

2. Name of Operator

[372137]

9. API Well No. **30-025-48539**

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory **[58980]**

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.

GCP Rec 03/10/2021

KZ
03/10/2021

NSL

REQUIRES NSL

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 05/19/2020

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
30-025-48539	58980	TEAS; WOLFCAMP

[4] Property Code	[5] Property Name	[6] Well Number
330276	ANACONDA 11-14 WCA FED COM	13H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372137	CHISHOLM ENERGY OPERATING, LLC	3593.9

[10] Surface Location

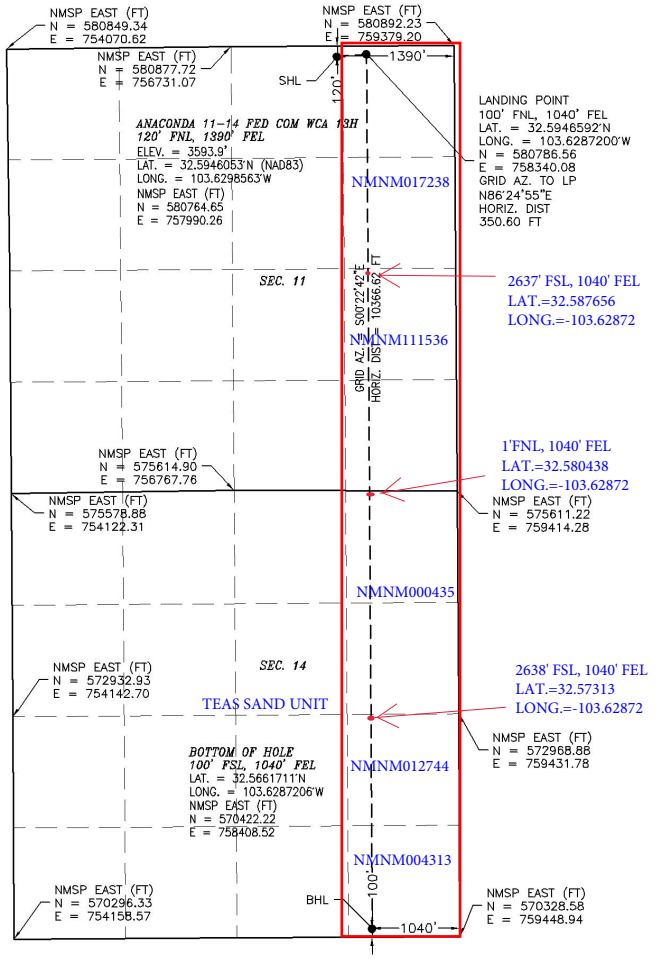
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	20 S	33 E		120	NORTH	1390	EAST	LEA

[11] Bottom Hole Location If Different From Surface NSL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	14	20 S	33 E		100	SOUTH	1040	EAST	LEA

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

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 01/13/2020
Signature Date

JENNIFER ELROD
Printed Name

JELROD@CHISHOLMENERGY.COM
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 20, 2019
Date of Survey

Signature and Seal of Professional Surveyor

Certificate Number: FILIMON F. JARAMILLO PLS 12797

SURVEY NO. 7835

Intent [X] As Drilled [ ]

API #

Operator Name:	Property Name:	Well Number
CHISHOLM ENERGY OPERATING, LLC	**ANACONDA 11-14 FED COM WCA**	**13H**

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
B	**11**	**20S**	**33E**		**120**	**NORTH**	**1390**	**EAST**	**LEA**

Latitude	Longitude	NAD
32.5946053	**103.6298563**	**83**

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	**11**	**20S**	**33E**		**100**	**NORTH**	**1040**	**EAST**	**LEA**

Latitude	Longitude	NAD
32.5946592	**103.6287200**	**83**

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	**14**	**20S**	**33E**		**100**	**SOUTH**	**1040**	**EAST**	**LEA**

Latitude	Longitude	NAD
32.5661711	**103.6287206**	**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
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811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 05/17/2018

☒ Original
☐ Amended - Reason for Amendment:

Operator & OGRID No.: CHISHOLM ENERGY OPERATING, LLC 372137

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
ANACONDA 11 FED COM WCA 13H	30-025-48539	B-11-20S-33E	120 FNL 1390 FEL	1200	FLARED	FLARED ONLY WHEN NEEDED

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to 3 Bear Delaware Operating-NM. LLC and will be connected to 3 Bear Delaware Operating-NM. LLC low/high pressure gathering system located in _LEA_ County, New Mexico. It will require Flowlines to connect the facility to low/high pressure gathering system. Chisholm Energy Operating, LLC provides (periodically) to 3 Bear Delaware Operating-NM. LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Chisholm Energy Operating, LLC and 3 Bear Delaware Operating-NM. LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at 3 Bear Delaware Operating-NM. LLC Libby Gas Processing Plant located in Sec._26____, Twn._20S_, Rng.__34e_, _Eddy___ County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on 3 Bear Delaware Operating-NM. LLC system at that time. Based on current information, it is Chisholm Energy Operating, LLC belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

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	1400	SPUD MUD	8.5	9.2							32-38 FV 4-6 PV 2-5 YP
3550	5500	WATER-BASED MUD	9	9.5							15-20 PV 8-12 YP
1400	2900	SALT SATURATED	10	10.3							28-32 FV
5500	21183	OIL-BASED MUD	9	9.5							15-20 PV 8-12 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:

CBL,DS,GR,MWD

Coring operation description for the well:

None

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 5501 **Anticipated Surface Pressure:** 3051.08

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_20180427115426.pdf

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

5M_Choke_Manifold_Diagram_20180427115439.pdf

BOP Diagram Attachment:

5m_BOP_Diagram_2_20200423111234.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	26	20.0	NEW	API	N	0	1400	0	1400	3594	2164	1400	J-55	94	BUTT	1.25	3.37	DRY	12.27	DRY	12.95
2	INTERMEDIATE	17.5	13.375	NEW	API	N	0	3550	0	3550	3594	-1881	3550	HCL-80	54.5	BUTT	1.16	2.11	DRY	7.6	DRY	7.6
3	INTERMEDIATE	12.25	9.625	NEW	API	N	0	5500	0	5500			5500	J-55	40	LT&C	1.42	1.45	DRY	2.77	DRY	2.82
4	PRODUCTION	8.75	5.5	NEW	API	N	0	21183	0	11136	3594	-7503	21183	P-110	20	BUTT	2.02	2.3	DRY	3.5	DRY	3.37

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Calculator____Anaconda_11_Fed_Com_WCA_13H_20200423111413.pdf

Casing Program: **Anaconda 11 Fed Com WCA 13H**

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)	Pipe Body Tension (lbs)	Joint Tension (lbs)	Air Weight (lbs)	Bouyant Weight (lbs)	Pipe Body Tension SF (1.8)	Joint Tension SF (1.8)
Surface																			
26	0'	1,400'	1,400'	20	94.0	J-55	BTC	New	8.6	2,110	3.37	520	1.25	1,480,000	1,402,000	131,600	114,305	12.95	12.27
																0	0		
Intermediate 1																			
17.5	0'	3,550'	3,550'	13 3/8"	54.5	HCL80	BTC	New	10.2	3,980	2.11	1,460	1.16	1,241,000	1,241,000	193,475	163,318	7.60	7.60
Intermediate 2																			
12.25"	0'	5,500'	5,500'	9 5/8"	40	J-55	LTC	New	9.5	3,950	1.45	2,570	1.42	530,000	520,000	220,000	188,062	2.82	2.77
Production																			
8.75"	0'	21,183'	11,136'	5 1/2"	20	P110	BTC	New	9.5	12,640	2.30	11,100	2.02	641,000	667,000	222,720	190,387	3.37	3.50

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:	8.6	ppg
Collapse	A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of:	8.6	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.6	ppg

Intermediate 1

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 1/3 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

Intermediate 2

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 1/3 TVD 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

Production

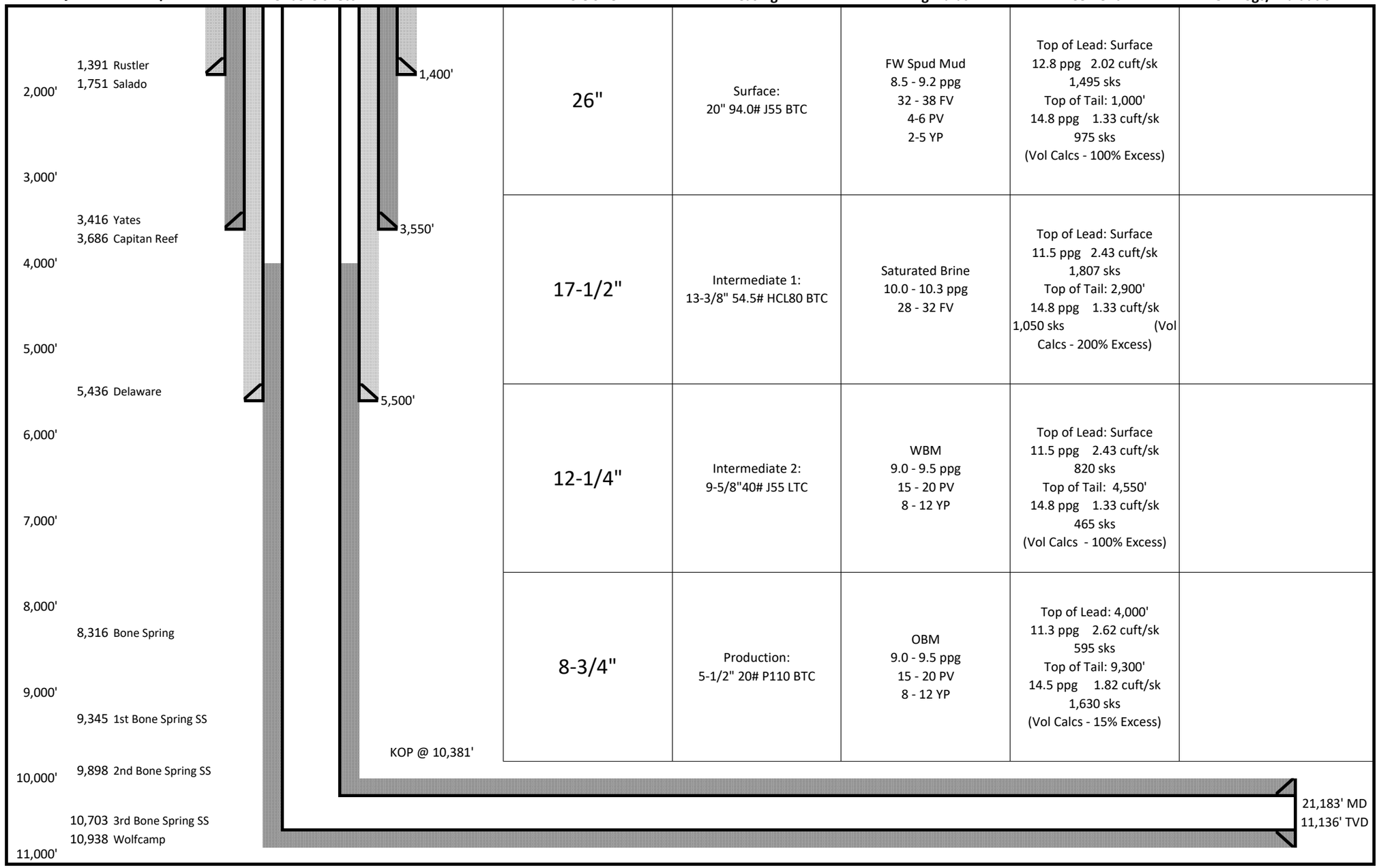
Tension	A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of:	9.5	ppg
Collapse	A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.5	ppg
Burst	A 1.125 design factor with full external evacuation and burst force equal to a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

NEW TECH GLOBAL
An Oil and Gas Consulting and Engineering Firm

Anaconda 11 Fed Com WCA 13H

API # 30-0xx-xxxxx

Revised: 12/17/2019



Hole Size	Casing	Drilling Fluids	Cement	OH Logs/Evaluation
26"	Surface: 20" 94.0# J55 BTC	FW Spud Mud 8.5 - 9.2 ppg 32 - 38 FV 4-6 PV 2-5 YP	Top of Lead: Surface 12.8 ppg 2.02 cuft/sk 1,495 sks Top of Tail: 1,000' 14.8 ppg 1.33 cuft/sk 975 sks (Vol Calcs - 100% Excess)	
17-1/2"	Intermediate 1: 13-3/8" 54.5# HCL80 BTC	Saturated Brine 10.0 - 10.3 ppg 28 - 32 FV	Top of Lead: Surface 11.5 ppg 2.43 cuft/sk 1,807 sks Top of Tail: 2,900' 14.8 ppg 1.33 cuft/sk 1,050 sks (Vol Calcs - 200% Excess)	
12-1/4"	Intermediate 2: 9-5/8"40# J55 LTC	WBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: Surface 11.5 ppg 2.43 cuft/sk 820 sks Top of Tail: 4,550' 14.8 ppg 1.33 cuft/sk 465 sks (Vol Calcs - 100% Excess)	
8-3/4"	Production: 5-1/2" 20# P110 BTC	OBM 9.0 - 9.5 ppg 15 - 20 PV 8 - 12 YP	Top of Lead: 4,000' 11.3 ppg 2.62 cuft/sk 595 sks Top of Tail: 9,300' 14.5 ppg 1.82 cuft/sk 1,630 sks (Vol Calcs - 15% Excess)	

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1000	1495	2.02	12.8	3020	100	Class C	Sodium Metasilicate, Defoamer, KCL
SURFACE	Tail		1000	1400	975	1.33	14.8	1296	100	Class C	none
INTERMEDIATE	Lead		0	2900	1807	2.43	11.5	4391	200	Class C	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		2900	3550	1050	1.33	14.8	1396	200	Class C	Fluid Loss, Dispercent, Retarder
INTERMEDIATE	Lead		0	4550	820	2.43	11.5	1993	100	Class C	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		4550	5500	465	1.33	14.8	601	100	Class C	Fluid Loss, Dispercent, Retarder
PRODUCTION	Lead		4000	9300	595	2.62	11.3	1559	15	Class H	Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder
PRODUCTION	Tail		9300	21183	1630	1.82	14.5	2966	15	Class H	Extender, Fluid Loss, 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

CHISHOLM ENERGY

Chisholm Energy Holdings

GE 3593.9 + 26 @ 3619.90usft (Latshaw 17)

Ground Level: 3593.90

Project: Lea County, NM (NAD 83)
Site: Anaconda 11 Fed Com
Well: WCA 13H
Wellbore: Wellbore #1
Design: Plan 1
Rig: Latshaw 17

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone

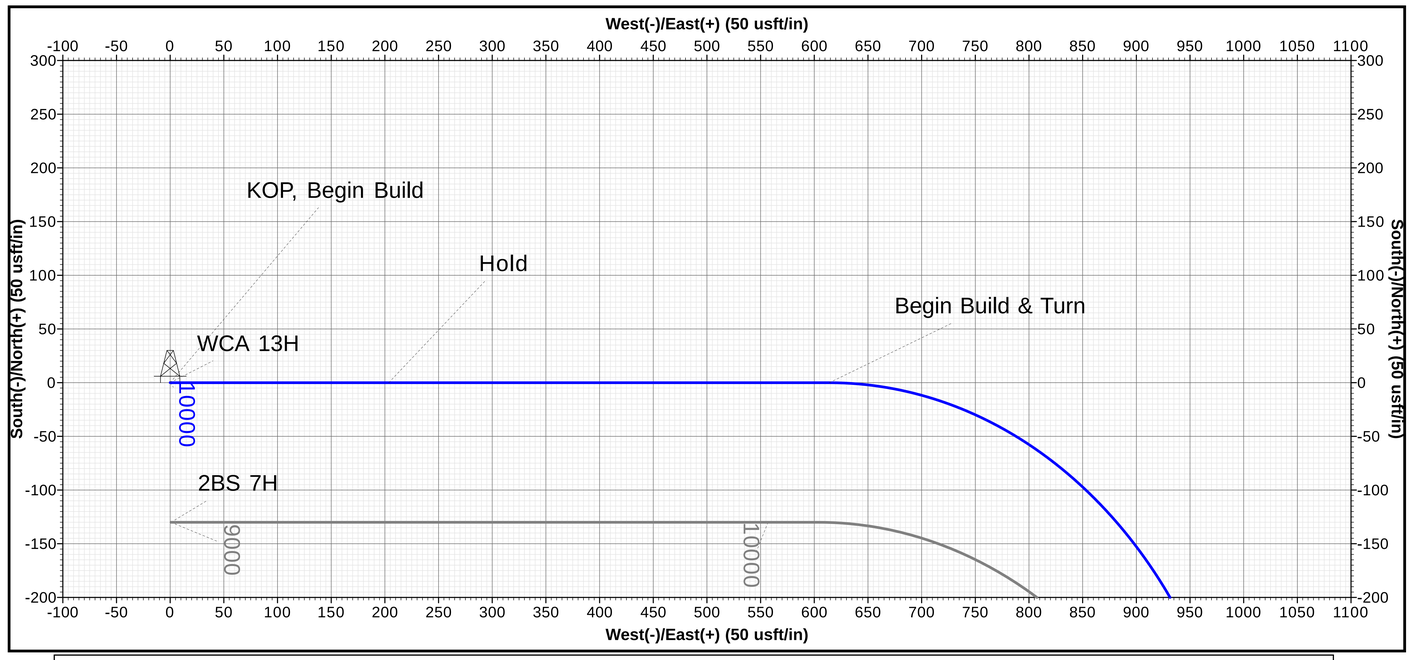
T G M

Azimuths to Grid North
True North: -0.38°
Magnetic North: 6.59°

Magnetic Field
Strength: 48123.5snT
Dip Angle: 60.37°
Date: 4/19/2018
Model: BGGM2017

WELL DETAILS
Ground Level: 3593.90

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	580764.65	757990.26	32.59460535	-103.62985626

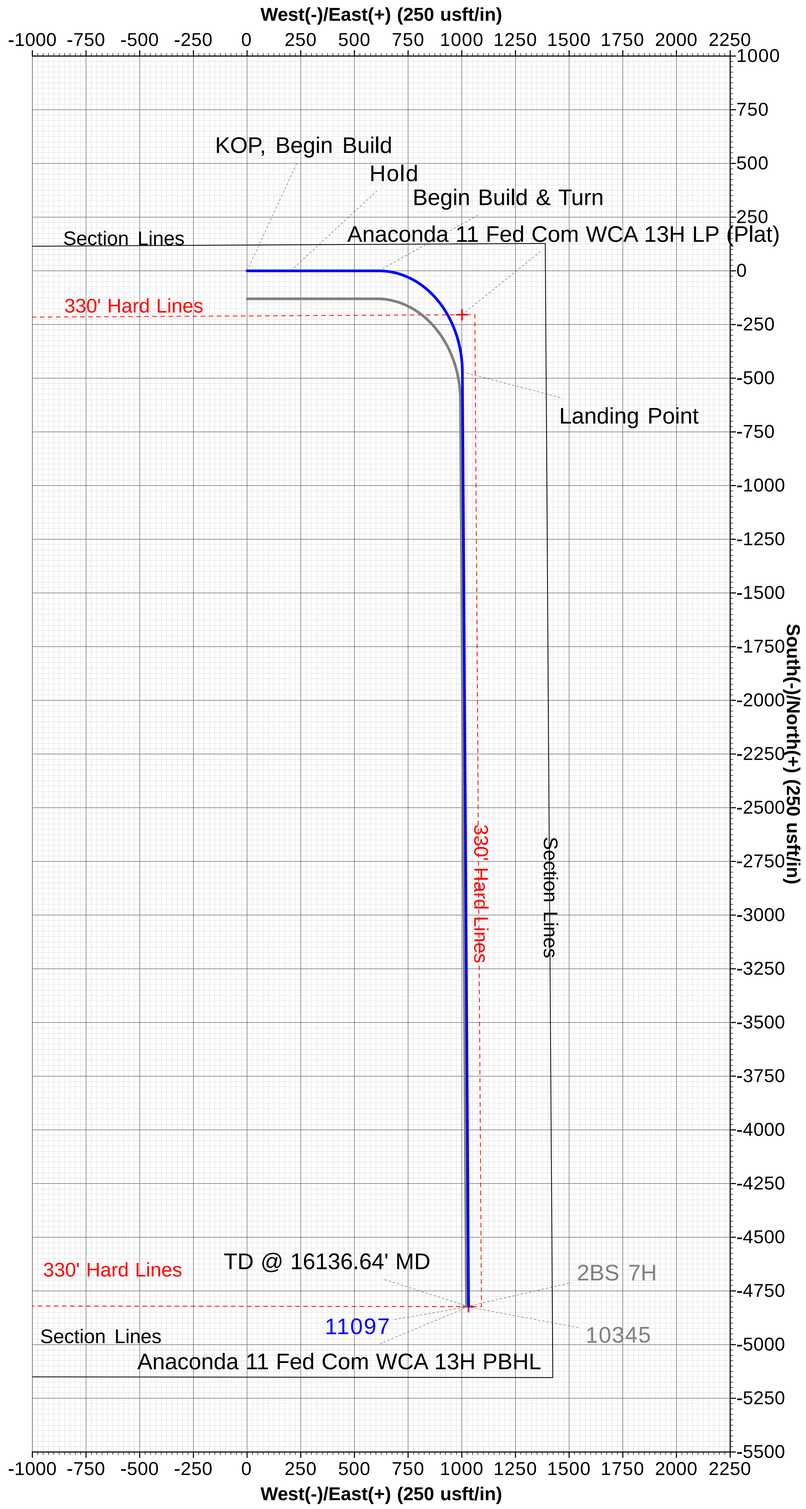


SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10081.30	0.00	0.00	10081.30	0.00	0.00	0.00	0.00	0.00	KOP, Begin Build
10539.63	55.00	90.00	10472.42	-0.01	203.60	12.00	90.00	0.01	Hold
11040.68	55.00	90.00	10759.81	-0.04	614.04	0.00	0.00	0.04	Begin Build & Turn
11784.24	89.20	179.62	11036.58	-471.07	1003.04	12.00	90.44	471.07	Landing Point
16136.64	89.20	179.62	11097.35	-4822.95	1031.90	0.00	0.00	4822.95	TD @ 16136.64' MD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Anaconda 11 Fed Com WCA 13H LP (Plat)	0.00	-204.48	1001.21	580560.17	758991.47	32.59402508	-103.62660993
Anaconda 11 Fed Com WCA 13H PBHL	0.00	-4822.95	1031.90	575941.70	759022.16	32.58133048	-103.62660991



HALLIBURTON | Sperry Drilling

Created By: Bethany Johnson 10:28, April 20 2018

Latshaw 17

Chisholm Energy Holdings

Lea County, NM (NAD 83) Anaconda 11 Fed Com

API#

WCA 13H

Wellbore #1

Plan: Plan 1

Sperry Drilling Services

Combo Report

20 April, 2018

Well Coordinates:	32° 35' 40.58" N 103° 37' 47.48" W	North American Datum 1983 New Mexico Eastern Zone 580,764.65 N 757,990.26 E

Ground Level: 3,593.90 usft

Local Coordinate Origin:	Centered on Well WCA 13H
Viewing Datum:	GE 3593.9 + 26 @ 3619.90usft (Latshaw 17)
TVDs to System:	N
North Reference:	**Grid**
Unit System:	Midcon (2 decimal)

Version: 5000.1 Build: 81E

Report Version: Midcon Combo v1.12

HALLIBURTON

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
0.00	0.00	0.00	0.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
3,600.00	0.00	0.00	3,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,800.00	0.00	0.00	4,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,000.00	0.00	0.00	6,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,000.00	0.00	0.00	7,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
7,300.00	0.00	0.00	7,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,000.00	0.00	0.00	8,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,000.00	0.00	0.00	9,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,100.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,200.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,300.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,400.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,500.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,600.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,700.00	0.00	0.00	9,700.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,800.00	0.00	0.00	9,800.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
9,900.00	0.00	0.00	9,900.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
10,000.00	0.00	0.00	10,000.00	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	
10,081.30	0.00	0.00	10,081.30	0.00 N	0.00 E	580,764.65	757,990.26	0.00	0.00	0.00	KOP, Begin Build
10,100.00	2.24	90.00	10,100.00	0.00 S	0.37 E	580,764.65	757,990.63	12.00	0.00	90.00	
10,125.00	5.24	90.00	10,124.94	0.00 S	2.00 E	580,764.65	757,992.26	12.00	0.00	0.00	
10,150.00	8.24	90.00	10,149.76	0.00 S	4.93 E	580,764.65	757,995.19	12.00	0.00	0.00	
10,175.00	11.24	90.00	10,174.40	0.00 S	9.16 E	580,764.65	757,999.42	12.00	0.00	0.00	
10,200.00	14.24	90.00	10,198.78	0.00 S	14.68 E	580,764.65	758,004.94	12.00	0.00	0.00	
10,225.00	17.24	90.00	10,222.84	0.00 S	21.46 E	580,764.65	758,011.72	12.00	0.00	0.00	
10,250.00	20.24	90.00	10,246.51	0.00 S	29.49 E	580,764.65	758,019.75	12.00	0.00	0.00	
10,275.00	23.24	90.00	10,269.73	0.00 S	38.75 E	580,764.65	758,029.01	12.00	0.00	0.00	

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
10,300.00	26.24	90.00	10,292.43	0.00 S	49.22 E	580,764.65	758,039.48	12.00	0.00	0.00	
10,325.00	29.24	90.00	10,314.56	0.00 S	60.85 E	580,764.65	758,051.11	12.00	0.00	0.00	
10,350.00	32.24	90.00	10,336.04	0.00 S	73.63 E	580,764.65	758,063.89	12.00	0.00	0.00	
10,375.00	35.24	90.00	10,356.83	0.01 S	87.52 E	580,764.64	758,077.78	12.00	0.01	0.00	
10,400.00	38.24	90.00	10,376.86	0.01 S	102.47 E	580,764.64	758,092.73	12.00	0.01	0.00	
10,425.00	41.24	90.00	10,396.08	0.01 S	118.45 E	580,764.64	758,108.71	12.00	0.01	0.00	
10,450.00	44.24	90.00	10,414.43	0.01 S	135.42 E	580,764.64	758,125.68	12.00	0.01	0.00	
10,475.00	47.24	90.00	10,431.88	0.01 S	153.32 E	580,764.64	758,143.58	12.00	0.01	0.00	
10,500.00	50.24	90.00	10,448.36	0.01 S	172.12 E	580,764.64	758,162.38	12.00	0.01	0.00	
10,525.00	53.24	90.00	10,463.84	0.01 S	191.75 E	580,764.64	758,182.01	12.00	0.01	0.00	
10,539.63	55.00	90.00	10,472.42	0.01 S	203.60 E	580,764.64	758,193.86	12.00	0.01	0.00	Hold
10,600.00	55.00	90.00	10,507.04	0.02 S	253.05 E	580,764.63	758,243.31	0.00	0.02	0.00	
10,700.00	55.00	90.00	10,564.40	0.02 S	334.97 E	580,764.63	758,325.23	0.00	0.02	0.00	
10,800.00	55.00	90.00	10,621.76	0.03 S	416.88 E	580,764.62	758,407.14	0.00	0.03	0.00	
10,900.00	55.00	90.00	10,679.11	0.03 S	498.80 E	580,764.62	758,489.06	0.00	0.03	0.00	
11,000.00	55.00	90.00	10,736.47	0.04 S	580.71 E	580,764.61	758,570.97	0.00	0.04	0.00	
11,040.68	55.00	90.00	10,759.81	0.04 S	614.04 E	580,764.61	758,604.30	0.00	0.04	0.00	Begin Build & Turn
11,050.00	55.00	91.37	10,765.15	0.13 S	621.67 E	580,764.52	758,611.93	12.00	0.13	90.44	
11,075.00	55.07	95.03	10,779.48	1.27 S	642.12 E	580,763.38	758,632.38	12.00	1.27	89.65	
11,100.00	55.25	98.68	10,793.76	3.72 S	662.49 E	580,760.93	758,652.75	12.00	3.72	87.55	
11,125.00	55.55	102.30	10,807.96	7.47 S	682.72 E	580,757.18	758,672.98	12.00	7.47	85.47	
11,150.00	55.94	105.90	10,822.04	12.50 S	702.75 E	580,752.15	758,693.01	12.00	12.50	83.41	
11,175.00	56.44	109.46	10,835.95	18.81 S	722.54 E	580,745.84	758,712.80	12.00	18.81	81.38	
11,200.00	57.04	112.98	10,849.66	26.38 S	742.02 E	580,738.27	758,732.28	12.00	26.38	79.40	
11,225.00	57.74	116.44	10,863.14	35.18 S	761.14 E	580,729.47	758,751.40	12.00	35.18	77.47	
11,250.00	58.53	119.85	10,876.34	45.20 S	779.86 E	580,719.45	758,770.12	12.00	45.20	75.61	
11,275.00	59.41	123.19	10,889.23	56.40 S	798.12 E	580,708.25	758,788.38	12.00	56.40	73.81	
11,300.00	60.38	126.48	10,901.77	68.75 S	815.86 E	580,695.90	758,806.12	12.00	68.75	72.08	
11,325.00	61.42	129.70	10,913.93	82.23 S	833.05 E	580,682.42	758,823.31	12.00	82.23	70.44	
11,350.00	62.54	132.85	10,925.67	96.79 S	849.63 E	580,667.86	758,839.89	12.00	96.79	68.87	
11,375.00	63.73	135.94	10,936.97	112.39 S	865.56 E	580,652.26	758,855.82	12.00	112.39	67.39	
11,400.00	64.98	138.96	10,947.80	128.99 S	880.80 E	580,635.66	758,871.06	12.00	128.99	65.99	
11,425.00	66.29	141.93	10,958.11	146.55 S	895.30 E	580,618.10	758,885.56	12.00	146.55	64.68	
11,450.00	67.66	144.83	10,967.89	165.01 S	909.02 E	580,599.64	758,899.28	12.00	165.01	63.46	
11,475.00	69.08	147.67	10,977.11	184.33 S	921.92 E	580,580.32	758,912.18	12.00	184.33	62.33	
11,500.00	70.54	150.46	10,985.74	204.46 S	933.98 E	580,560.19	758,924.24	12.00	204.46	61.28	

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
11,525.00	72.05	153.20	10,993.76	225.33 S	945.15 E	580,539.32	758,935.41	12.00	225.33	60.31	
11,550.00	73.59	155.89	11,001.14	246.90 S	955.42 E	580,517.75	758,945.68	12.00	246.90	59.43	
11,575.00	75.17	158.54	11,007.87	269.09 S	964.73 E	580,495.56	758,954.99	12.00	269.09	58.64	
11,600.00	76.78	161.16	11,013.94	291.86 S	973.09 E	580,472.79	758,963.35	12.00	291.86	57.93	
11,625.00	78.41	163.73	11,019.31	315.14 S	980.45 E	580,449.51	758,970.71	12.00	315.14	57.29	
11,650.00	80.07	166.28	11,023.98	338.86 S	986.80 E	580,425.79	758,977.06	12.00	338.86	56.74	
11,675.00	81.74	168.80	11,027.93	362.96 S	992.13 E	580,401.69	758,982.39	12.00	362.96	56.26	
11,700.00	83.43	171.30	11,031.16	387.37 S	996.41 E	580,377.28	758,986.67	12.00	387.37	55.86	
11,725.00	85.13	173.78	11,033.65	412.04 S	999.64 E	580,352.61	758,989.90	12.00	412.04	55.54	
11,750.00	86.85	176.25	11,035.40	436.88 S	1,001.81 E	580,327.77	758,992.07	12.00	436.88	55.29	
11,775.00	88.56	178.71	11,036.40	461.83 S	1,002.90 E	580,302.82	758,993.16	12.00	461.83	55.12	
11,784.24	89.20	179.62	11,036.58	471.07 S	1,003.04 E	580,293.58	758,993.30	12.00	471.07	55.02	Landing Point
11,800.00	89.20	179.62	11,036.80	486.83 S	1,003.14 E	580,277.82	758,993.40	0.00	486.83	0.00	
11,900.00	89.20	179.62	11,038.19	586.81 S	1,003.80 E	580,177.84	758,994.06	0.00	586.81	0.00	
12,000.00	89.20	179.62	11,039.59	686.80 S	1,004.47 E	580,077.85	758,994.73	0.00	686.80	0.00	
12,100.00	89.20	179.62	11,040.99	786.79 S	1,005.13 E	579,977.86	758,995.39	0.00	786.79	0.00	
12,200.00	89.20	179.62	11,042.38	886.78 S	1,005.79 E	579,877.87	758,996.05	0.00	886.78	0.00	
12,300.00	89.20	179.62	11,043.78	986.77 S	1,006.46 E	579,777.88	758,996.72	0.00	986.77	0.00	
12,400.00	89.20	179.62	11,045.17	1,086.75 S	1,007.12 E	579,677.90	758,997.38	0.00	1,086.75	0.00	
12,500.00	89.20	179.62	11,046.57	1,186.74 S	1,007.78 E	579,577.91	758,998.04	0.00	1,186.74	0.00	
12,600.00	89.20	179.62	11,047.97	1,286.73 S	1,008.45 E	579,477.92	758,998.71	0.00	1,286.73	0.00	
12,700.00	89.20	179.62	11,049.36	1,386.72 S	1,009.11 E	579,377.93	758,999.37	0.00	1,386.72	0.00	
12,800.00	89.20	179.62	11,050.76	1,486.71 S	1,009.77 E	579,277.94	759,000.03	0.00	1,486.71	0.00	
12,900.00	89.20	179.62	11,052.15	1,586.70 S	1,010.44 E	579,177.95	759,000.70	0.00	1,586.70	0.00	
13,000.00	89.20	179.62	11,053.55	1,686.68 S	1,011.10 E	579,077.97	759,001.36	0.00	1,686.68	0.00	
13,100.00	89.20	179.62	11,054.95	1,786.67 S	1,011.76 E	578,977.98	759,002.02	0.00	1,786.67	0.00	
13,200.00	89.20	179.62	11,056.34	1,886.66 S	1,012.43 E	578,877.99	759,002.69	0.00	1,886.66	0.00	
13,300.00	89.20	179.62	11,057.74	1,986.65 S	1,013.09 E	578,778.00	759,003.35	0.00	1,986.65	0.00	
13,400.00	89.20	179.62	11,059.14	2,086.64 S	1,013.75 E	578,678.01	759,004.01	0.00	2,086.64	0.00	
13,500.00	89.20	179.62	11,060.53	2,186.62 S	1,014.41 E	578,578.03	759,004.67	0.00	2,186.62	0.00	
13,600.00	89.20	179.62	11,061.93	2,286.61 S	1,015.08 E	578,478.04	759,005.34	0.00	2,286.61	0.00	
13,700.00	89.20	179.62	11,063.32	2,386.60 S	1,015.74 E	578,378.05	759,006.00	0.00	2,386.60	0.00	
13,800.00	89.20	179.62	11,064.72	2,486.59 S	1,016.40 E	578,278.06	759,006.66	0.00	2,486.59	0.00	
13,900.00	89.20	179.62	11,066.12	2,586.58 S	1,017.07 E	578,178.07	759,007.33	0.00	2,586.58	0.00	
14,000.00	89.20	179.62	11,067.51	2,686.56 S	1,017.73 E	578,078.09	759,007.99	0.00	2,686.56	0.00	
14,100.00	89.20	179.62	11,068.91	2,786.55 S	1,018.39 E	577,978.10	759,008.65	0.00	2,786.55	0.00	
14,200.00	89.20	179.62	11,070.31	2,886.54 S	1,019.06 E	577,878.11	759,009.32	0.00	2,886.54	0.00	

Plan Report for WCA 13H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates Northing (usft)	Local Coordinates Easting (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
14,300.00	89.20	179.62	11,071.70	2,986.53 S	1,019.72 E	577,778.12	759,009.98	0.00	2,986.53	0.00	
14,400.00	89.20	179.62	11,073.10	3,086.52 S	1,020.38 E	577,678.13	759,010.64	0.00	3,086.52	0.00	
14,500.00	89.20	179.62	11,074.49	3,186.50 S	1,021.05 E	577,578.15	759,011.31	0.00	3,186.50	0.00	
14,600.00	89.20	179.62	11,075.89	3,286.49 S	1,021.71 E	577,478.16	759,011.97	0.00	3,286.49	0.00	
14,700.00	89.20	179.62	11,077.29	3,386.48 S	1,022.37 E	577,378.17	759,012.63	0.00	3,386.48	0.00	
14,800.00	89.20	179.62	11,078.68	3,486.47 S	1,023.04 E	577,278.18	759,013.30	0.00	3,486.47	0.00	
14,900.00	89.20	179.62	11,080.08	3,586.46 S	1,023.70 E	577,178.19	759,013.96	0.00	3,586.46	0.00	
15,000.00	89.20	179.62	11,081.48	3,686.44 S	1,024.36 E	577,078.21	759,014.62	0.00	3,686.44	0.00	
15,100.00	89.20	179.62	11,082.87	3,786.43 S	1,025.03 E	576,978.22	759,015.29	0.00	3,786.43	0.00	
15,200.00	89.20	179.62	11,084.27	3,886.42 S	1,025.69 E	576,878.23	759,015.95	0.00	3,886.42	0.00	
15,300.00	89.20	179.62	11,085.66	3,986.41 S	1,026.35 E	576,778.24	759,016.61	0.00	3,986.41	0.00	
15,400.00	89.20	179.62	11,087.06	4,086.40 S	1,027.01 E	576,678.25	759,017.27	0.00	4,086.40	0.00	
15,500.00	89.20	179.62	11,088.46	4,186.38 S	1,027.68 E	576,578.27	759,017.94	0.00	4,186.38	0.00	
15,600.00	89.20	179.62	11,089.85	4,286.37 S	1,028.34 E	576,478.28	759,018.60	0.00	4,286.37	0.00	
15,700.00	89.20	179.62	11,091.25	4,386.36 S	1,029.00 E	576,378.29	759,019.26	0.00	4,386.36	0.00	
15,800.00	89.20	179.62	11,092.65	4,486.35 S	1,029.67 E	576,278.30	759,019.93	0.00	4,486.35	0.00	
15,900.00	89.20	179.62	11,094.04	4,586.34 S	1,030.33 E	576,178.31	759,020.59	0.00	4,586.34	0.00	
16,000.00	89.20	179.62	11,095.44	4,686.32 S	1,030.99 E	576,078.33	759,021.25	0.00	4,686.32	0.00	
16,100.00	89.20	179.62	11,096.83	4,786.31 S	1,031.66 E	575,978.34	759,021.92	0.00	4,786.31	0.00	
16,136.64	89.20	179.62	11,097.35	4,822.95 S	1,031.90 E	575,941.70	759,022.16	0.00	4,822.95	0.00	TD @ 16136.64' MD

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,081.30	10,081.30	0.00	0.00	KOP, Begin Build
10,539.63	10,472.42	-0.01	203.60	Hold
11,040.68	10,759.81	-0.04	614.04	Begin Build & Turn
11,784.24	11,036.58	-471.07	1,003.04	Landing Point
16,136.64	11,097.35	-4,822.95	1,031.90	TD @ 16136.64' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (usft)	Origin +E/-W (usft)	Start TVD (usft)
User	No Target (Freehand)	180.00	Slot	0.00	0.00	0.00

Plan Report for WCA 13H - Plan 1

Survey tool program

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	16,136.64	Plan 1	MWD

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,750.00	1,750.00	13 3/8"	13-3/8	17-1/2

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Anaconda 11 Fed Com WCA 13H LP (Plat) ()									
	0.00	0.00	0.00	-204.48	1,001.21	580,560.17	758,991.47	32.59402508	-103.62660993
- plan misses target center by 1021.88usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Anaconda 11 Fed Com WCA 13H PBHL ()									
	0.00	0.00	0.00	-4,822.95	1,031.90	575,941.70	759,022.16	32.58133048	-103.62660991
- plan misses target center by 4932.11usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.89 °/100usft	Maximum Dogleg over Survey:	12.00 °/100usft at 10,539.63 usft
Net Tortousity applicable to Plans:	0.89 °/100usft	Directional Difficulty Index:	6.254

Audit Info

North Reference Sheet for Anaconda 11 Fed Com - WCA 13H - Wellbore #1

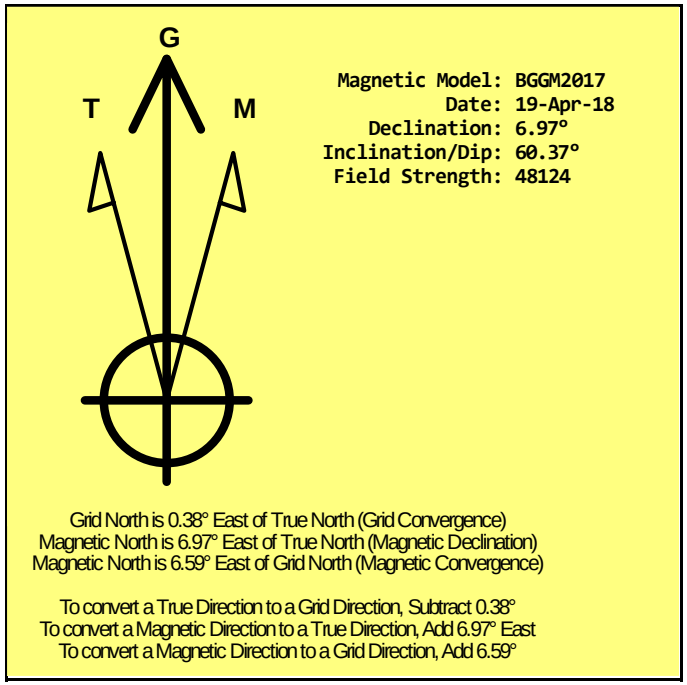
All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.
Vertical Depths are relative to GE 3593.9 + 26 @ 3619.90usft (Latshaw 17). Northing and Easting are relative to WCA 13H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980
Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°
False Easting: 541,337.50usft, False Northing: 0.00usft, Scale Reduction: 0.99996285

Grid Coordinates of Well: 580,764.65 usft N, 757,990.26 usft E
Geographical Coordinates of Well: 32° 35' 40.58" N, 103° 37' 47.48" W
Grid Convergence at Surface is: 0.38°

Based upon Minimum Curvature type calculations, at a Measured Depth of 16,136.64usft
the Bottom Hole Displacement is 4,932.11usft in the Direction of 167.92° (Grid).

Magnetic Convergence at surface is: -6.59° (19 April 2018, , BGGM2017)



PECOS DISTRICT
DRILLING OPERATIONS
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Chisholm Energy Operating LLC**
LEASE NO.:	**NMNM017238**
WELL NAME & NO.:	**Anaconda 11 Fed Com WCA 13H**
SURFACE HOLE FOOTAGE:	**120' FNL & 1390' FEL**
BOTTOM HOLE FOOTAGE	**330' FSL & 390' FEL**
LOCATION:	**Section 11, T 20S, R 33E, NMPM**
COUNTY:	**Lea County, New Mexico**

H2S	(•) Yes	( ) No	
Potash	( ) None	( ) Secretary	(•) R-111-P
Cave/Karst Potential	(•) Low	( ) Medium	( ) High
Variance	( ) None	(•) Flex Hose	( ) Other
Wellhead	( ) Conventional	(•) Multibowl	( ) Both
Other	[x] 4 String Area	[ ] Capitan Reef	[ ] WIPP
Other	[x] Fluid Filled	[ ] Cement Squeeze	[ ] Pilot Hole
Special Requirements	[ ] Water Disposal	[x] COM	[ ] Unit

A. HYDROGEN SULFIDE

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

B. CASING

1. The **20"** surface casing shall be set at approximately **1400'** (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
   a. **If cement does not circulate to 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 **6 hours** after pumping cement, ideally between 8-10 hours after.
   b. WOC time for a primary cement job will be a minimum of **24 hours in the Potash area** or **500 psi** compressive strength, whichever is greater. This is to include the lead cement.
   c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
   d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

 Approval Date: 05/19/2020

e. This casing must be kept at least 1/3 full at all times in order to meet BLM collapse requirements.

2. The **13-3/8" and 9-5/8"** intermediate casings shall be cemented to surface.
   a. **If cement does not circulate to surface,** see B.1.a, c & d.
   b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.
   c. These casings must be kept at least 1/3 full at all times in order to meet BLM collapse requirements.
3. The **5-1/2"** production casing shall be cemented to at least 50' above the top of the Capitan Reef. Operator shall provide method of verification.
   a. In Potash, if cement does not ciculate to surface on the first three casing strings, the cement on the 4th casing string must come to surface.

C. PRESSURE CONTROL

1. 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.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the first intermediate casing shoe shall be **5000 (5M)** psi.
3. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

D. SPECIAL REQUIREMENTS

1. Submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, 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.
   a. The well sign on location shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.
2. **Prior to drilling this well, the operator shall submit a 3160-5 Sundry Notice to the Carlsbad Field office changing the mud program for the Intermediate 2 (Capitan Reef) hole section to be drilled with fresh water based mud.**

DR 10/23/2019

GENERAL REQUIREMENTS

1. The BLM is to be notified in advance for a representative to witness:
   a. Spudding the well (minimum of 24 hours)
   b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
   c. BOP/BOPE tests (minimum of 4 hours)
      ☒ Eddy County: Call the Carlsbad Field Office, (575) 361-2822
      ☒ Lea County: Call the Hobbs Field Station, (575) 393-3612
2. 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:
      i. Notify the BLM when moving in and removing the Spudder Rig.
      ii. 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.
      iii. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
3. 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.
4. 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 available upon request. 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 the portion of 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. 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. 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 Onshore Order 2 III.A.2.i must be followed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the BOP/BOPE 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 which 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. The results of the test shall be made available upon request.

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 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. This test shall be performed prior to the test at full stack pressure.

f. BOP/BOPE must be tested 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

1. 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

1. 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.
2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

ANACONDA 11-14 FED COM WCA 13H

ANACONDA 11-14 FED COM 3BS 7H

CHISHOLM ENERGY OPERATING, LLC WILL USED A CLOSED LOOP SYSTEM

Additional Operator Remarks

Location of Well

1. SHL: LOT B / 120 FNL / 1390 FEL / TWSP: 20S / RANGE: 33E / SECTION: 11 / LAT: 32.5946053 / LONG: -103.6298563 (TVD: 0 feet, MD: 0 feet)
   PPP: NENE / 1 FNL / 1040 FEL / TWSP: 20S / RANGE: 33E / SECTION: 14 / LAT: 32.580438 / LONG: -103.63872 (TVD: 11071 feet, MD: 16517 feet)
   PPP: NESE / 2637 FSL / 1040 FEL / TWSP: 20S / RANGE: 33E / SECTION: 11 / LAT: 32.587676 / LONG: -103.62872 (TVD: 10999 feet, MD: 13879 feet)
   PPP: NESE / 2638 FSL / 1040 FEL / TWSP: 20S / RANGE: 33E / SECTION: 14 / LAT: 32.57313 / LONG: -103.62872 (TVD: 11107 feet, MD: 19156 feet)
   PPP: NENE / 100 FNL / 1040 FEL / TWSP: 20S / RANGE: 33E / SECTION: 11 / LAT: 32.5946592 / LONG: -103.62872 (TVD: 10999 feet, MD: 11336 feet)
   BHL: SESE / 100 FSL / 1040 FEL / TWSP: 20S / RANGE: 33E / SECTION: 14 / LAT: 32.5661711 / LONG: -103.6287206 (TVD: 11136 feet, MD: 21183 feet)

BLM Point of Contact

Name: Candy Vigil
Title: LIE
Phone: 5752345982
Email: cvigil@blm.gov

AFMSS

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

Drilling Plan Data Report

03/08/2021

APD ID: 10400029851
Submission Date: 05/18/2018

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA
Well Number: 13H

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
220654	RUSTLER	3721	1391	1391	ANHYDRITE	USEABLE WATER	N
220655	SALADO	1970	1751	1751	SALT	NONE	N
220657	YATES	305	3416	3416	ANHYDRITE, DOLOMITE	NATURAL GAS, OIL	N
220656	CAPITAN REEF	35	3686	3686	DOLOMITE, LIMESTONE, SANDSTONE	NATURAL GAS, OIL	N
220658	DELAWARE	-1715	5436	5436	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
220659	BONE SPRING	-4595	8316	8316	LIMESTONE, SHALE	NATURAL GAS, OIL	N
220660	BONE SPRING 1ST	-5624	9345	9345	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
220661	BONE SPRING 2ND	-6177	9898	9898	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
220683	BONE SPRING 3RD	-6982	10703	10703	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL	N
220684	WOLFCAMP	-7217	10938	10938	LIMESTONE, 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? YES

Variance request: WE PROPOSE UTILIZING A CACTUS SPEED HEAD MULTI-BOWL WELLHEAD FOR THIS WELL. PLEASE SEE ATTACHED DIAGRAM AND PRESSURE TESTING STATEMENT. ALSO WE REQUEST TO USE A FLEX CHOKE HOSE; PLEASE SEE ATTACHMENT.
Testing Procedure: BOP will be tested by an independent service company per onshore order 2 regulations. BOP testing procedure -N/U the rig's BOP. Use 3rd party testers to perform the following: -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 Hydril annular to 250 psi/2,500 psi with same as above
Choke Diagram Attachment:

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.

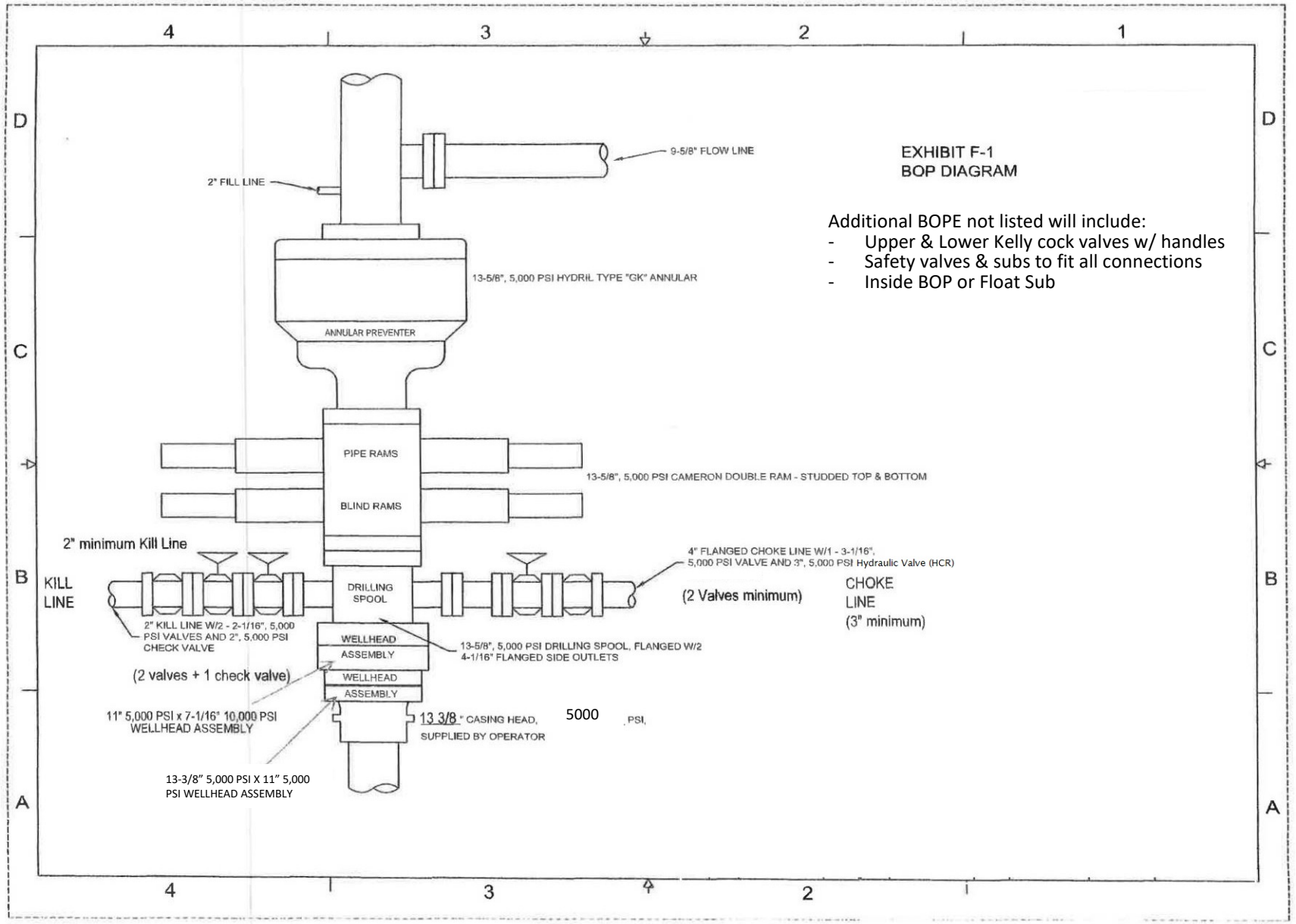


EXHIBIT F-1
BOP DIAGRAM

Additional BOPE not listed will include:
- Upper & Lower Kelly cock valves w/ handles
- Safety valves & subs to fit all connections
- Inside BOP or Float Sub

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

ANACONDA_11_14_FED_COM_WCA_13H_REVISED_SITE_MAP_20200423121343.PDF

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: ANACONDA 11 FED COM EAST PAD

Multiple Well Pad Number: 5H,6H, 11H,2H,13H

Recontouring attachment:

Drainage/Erosion control construction: Drainage systems, if an, will be reshaped to the original configuration with provisions made to alleviate erosion.

Drainage/Erosion control reclamation: Any portion of the site that is not needed for future operations will be reclaimed to the original state as much as possible.

Well pad proposed disturbance (acres): 0

Road proposed disturbance (acres): 0

Powerline proposed disturbance (acres): 0

Pipeline proposed disturbance (acres): 0

Other proposed disturbance (acres): 0

Total proposed disturbance: 0

Well pad interim reclamation (acres): 4.78

Road interim reclamation (acres): 0.76

Powerline interim reclamation (acres): 0

Pipeline interim reclamation (acres): 0

Other interim reclamation (acres): 0

Total interim reclamation: 5.54

Well pad long term disturbance (acres): 4.78

Road long term disturbance (acres): 0.76

Powerline long term disturbance (acres): 0

Pipeline long term disturbance (acres): 0

Other long term disturbance (acres): 0

Total long term disturbance: 5.54

Disturbance Comments:

Reconstruction method: No interim reclamation planned due to future development on this pad, as well as tank battery construction if the well is productive.

Topsoil redistribution: After the area has been reshaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible.

Soil treatment: No treatment necessary

Existing Vegetation at the well pad: mesquite, shinnery oak

Existing Vegetation at the well pad attachment:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

Existing Vegetation Community at the road: mesquite, shinnery oak

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: mesquite, shinnery oak

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: no other disturbance

Existing Vegetation Community at other disturbances attachment:

Non native seed used? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

Seed type: PERENNIAL GRASS **Seed source:** COMMERCIAL

Seed name: LPC-Seed Mix 2

Source name: **Source address:**

Source phone:

Seed cultivar:

Seed use location: WELL PAD,WELL PAD

PLS pounds per acre: 5 **Proposed seeding season:** SPRING

Seed Summary

Total pounds/Acre: 5

Seed Type	Pounds/Acre
PERENNIAL GRASS	5

Seed reclamation attachment:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: ANACONDA 11 FED COM WCA **Well Number:** 13H

Operator Contact/Responsible Official Contact Info

First Name: **Last Name:**

Phone: (432)686-8235 **Email:** tgreen@chisholmenergy.com

Seedbed prep: Rip and add topsoil

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: All areas will be monitored, and weeds will be treated

Weed treatment plan attachment:

Monitoring plan description: Monitoring by lease operators during each visit

Monitoring plan attachment:

Success standards: N/A

Pit closure description: No pit, utilizing closed loop system

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD

Describe:

Surface Owner:

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 20377

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CHISHOLM ENERGY OPERATING, LLC	801 Cherry Street	Fort Worth, TX76102	372137	20377	FORM 3160-3

OCD Reviewer	Condition
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string