

Carlsbad Field Office

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs
HOBBS OCD

APPLICATION FOR PERMIT TO DRILL OR REENTER

SEP 06 2018

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Lease Name and Well No. BUFFALO 12-1 FED COM WCC 6H (322406)
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		9. API Well No. 30-025-45159
2. Name of Operator CHISHOLM ENERGY OPERATING LLC (372137)		10. Field and Pool, or Exploratory BUFFALO WOLF CAMP (.8170)
3a. Address 801 Cherry St., Suite 1200 Unit 20 Fort Worth TX 76102		11. Sec., T. R. M. or Blk. and Survey or Area SEC 12 / T19S / R33E / NMP
3b. Phone No. (include area code) (817)469-1104		
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface LOT M / 125 FSL / 1260 FWL / LAT 32.667809 / LONG -103.6210531 At proposed prod. zone LOT 4 / 330 FNL / 1270 FWL / LAT 32.6959973 / LONG -103.6209876		
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 125 feet		13. State
16. No of acres in lease 880		17. Spacing Unit dedicated to this well 324.54
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 60 feet		20. BLM/BIA Bond No. in file FED: NMB001468
19. Proposed Depth 10990 feet / 21598 feet		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3710 feet
22. Approximate date work will start* 07/01/2018		23. Estimated duration 30 days
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature (Electronic Submission)	Name (Printed/Typed) Jennifer Elrod / Ph: (817)953-3728	Date 02/07/2018
Title Senior Regulatory Technician		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 08/23/2018
Title Assistant Field Manager Lands & Minerals		
Office CARLSBAD		

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.

OCP Rec 09/06/18

APPROVED WITH CONDITIONS
Approval Date: 08/23/2018

*(Instructions on page 2)

Doc 12
8/23/18

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

1. SHL: LOT M / 125 FSL / 1260 FWL / TWSP: 19S / RANGE: 33E / SECTION: 12 / LAT: 32.667809 / LONG: -103.6210531 (TVD: 0 feet, MD: 0 feet)

PPP: LOT M / 625 FSL / 1270 FWL / TWSP: 19S / RANGE: 33E / SECTION: 12 / LAT: 32.6691828 / LONG: -103.6210156 (TVD: 10854 feet, MD: 11079 feet)

BHL: LOT 4 / 330 FNL / 1270 FWL / TWSP: 19S / RANGE: 33E / SECTION: 1 / LAT: 32.6959973 / LONG: -103.6209876 (TVD: 10990 feet, MD: 21598 feet)

BLM Point of Contact

Name: Katrina Ponder

Title: Geologist

Phone: 5752345969

Email: kponder@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



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

Application Data Report

08/23/2018

APD ID: 10400026353

Submission Date: 02/07/2018

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
click the most
recent changes

[Show Final Text](#)

Section 1 - General

APD ID: 10400026353

Tie to previous NOS? 10400022928

Submission Date: 02/07/2018

BLM Office: CARLSBAD

User: Jennifer Elrod

Title: Senior Regulatory Technician

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM032860

Lease Acres: 880

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: CHISHOLM ENERGY OPERATING LLC

Operator letter of designation:

Operator Info

Operator Organization Name: CHISHOLM ENERGY OPERATING LLC

Operator Address: 801 Cherry St., Suite 1200 Unit 20

Zip: 76102

Operator PO Box:

Operator City: Fort Worth

State: TX

Operator Phone: (817)469-1104

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? EXISTING

Master SUPO name: Buffalo

Well in Master Drilling Plan? EXISTING

Master Drilling Plan name: MINIS 1 WC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: BUFFALO

Pool Name: WOLF CANYON

Is the proposed well in an area containing other mineral resources? USEABLE WATER, NATURAL GAS, OIL

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Describe other minerals:

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1H,2H,3H,6H,7H,8H

Well Class: HORIZONTAL

BUFFALO 12-1 WEST

Number of Legs: 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: 14 Miles

Distance to nearest well: 60 FT

Distance to lease line: 125 FT

Reservoir well spacing assigned acres Measurement: 324.54 Acres

Well plat: BUFFALO_12_1_FED_COM_WCC_6H_REV_C102_LP_BH_04172018_20180417145942.pdf

Well work start Date: 07/01/2018

Duration: 30 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number: 5717

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL Leg #1	125	FSL	126 0	FWL	19S	33E	12	Lot M	32.66780 9	- 103.6210 531	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 032860	371 0	0	0
KOP Leg #1	125	FSL	126 0	FWL	19S	33E	12	Lot M	32.66780 9	- 103.6210 531	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 032860	- 665 7	103 67	103 67
PPP Leg #1	625	FSL	127 0	FWL	19S	33E	12	Lot M	32.66918 28	- 103.6210 156	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 032860	- 714 4	110 79	108 54



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

Drilling Plan Data Report

08/23/2018

APD ID: 10400026353

Submission Date: 02/07/2018

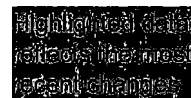
Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Well Type: OIL WELL

Well Work Type: Drill



Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	RUSTLER	3713	0	0	ANHYDRITE	USEABLE WATER, CO2, OIL	No
2	SALADO	1893	1820	1820	SALT	NATURAL GAS, OIL	No
3	SEVEN RIVERS	43	3670	3670	DOLOMITE, ANHYDRITE	NATURAL GAS, OIL	No
4	QUEEN	-647	4360	4360	LIMESTONE, SANDSTONE, DOLOMITE	NATURAL GAS, OIL	No
5	DELAWARE	-2632	6345	6345	SHALE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	No
6	BONE SPRING	-3967	7680	7680	LIMESTONE, SHALE	NATURAL GAS, OIL	No
7	BONE SPRING 1ST	-5222	8935	8935	SHALE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	No
8	BONE SPRING 2ND	-5827	9540	9540	SHALE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	No
9	BONE SPRING 3RD	-6651	10364	10364	SHALE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	No
10	WOLFCAMP	-6895	10608	10608	LIMESTONE, SHALE, SILTSTONE	USEABLE WATER, NATURAL GAS, CO2	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12500

Equipment: Rotating Head, Mud Gas Separator, Flare Line, Remote Kill Line

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 as required per Onshore Order #2 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:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

5M_Choke_Manifold_Diagram_20180117145926.pdf

BOP Diagram Attachment:

5m_BOP_Diagram_20180117145935.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	3713	2213	1500	J-55	54.5	BUTT	1.72	4.17	DRY	11.1 2	DRY	10.4 3
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	10900	0	10800	3713	-7087	10900	HCL-80	40	BUTT	1.27	1.13	DRY	2.34	DRY	2.12
3	PRODUCTION	8.75	5.5	NEW	API	N	0	21598	0	10990	3713	-7277	21598	P-110	20	BUTT	2.04	2.33	DRY	3.03	DRY	2.92

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Buffalo_Casing_Assumptions_WCC_20180131141259.pdf

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Casing Attachments

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Buffalo_Casing_Assumptions_WCC_20180131141326.pdf

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

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Buffalo_Casing_Assumptions_WCC_20180131141343.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	1150	789	2.53	12	1997	150	Class C	Sodium Metasilicate, Defoamer, KCL
SURFACE	Tail		1150	1500	460	1.32	14.8	608	150	Class C	none
INTERMEDIATE	Lead	5300	0	4800	1287	2.43	12	3128	150	Class C	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		4800	5300	297	1.32	14.8	391	150	Class C	Retarder, Defoamer

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

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	5300	5300	9900	732	2.31	12	1691	50	Class H	Sodium Metasilicate, Defoamer, KCL, Kol-Seal, Cellophane Flakes, ROF SealCheck
INTERMEDIATE	Tail		9900	10900	385	1.22	14.4	470	50	Class H	Fluid Loss, Dispercent, Retarder
PRODUCTION	Lead		4300	10490	859	2.21	11.5	1900	25	Class C	Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder
PRODUCTION	Tail		10490	21598	3050	1.15	15.8	3507	25	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: PVE, Pason/CanRig, visual Monitoring

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							
10800	10990	OIL-BASED MUD	11	11.5							

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

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	1080 0	OIL-BASED MUD	8.8	9.1							

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: 5495

Anticipated Surface Pressure: 3077.2

Anticipated Bottom Hole Temperature(F): 160

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Lea_County_H2S_plan_20180417150502.pdf

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Buffalo_12_1_Fed_Com_WCC_6H_Plan_Numbers_20180131135554.pdf

Buffalo_12_1_Fed_Com_WCC_6H_Plot_20180131135554.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

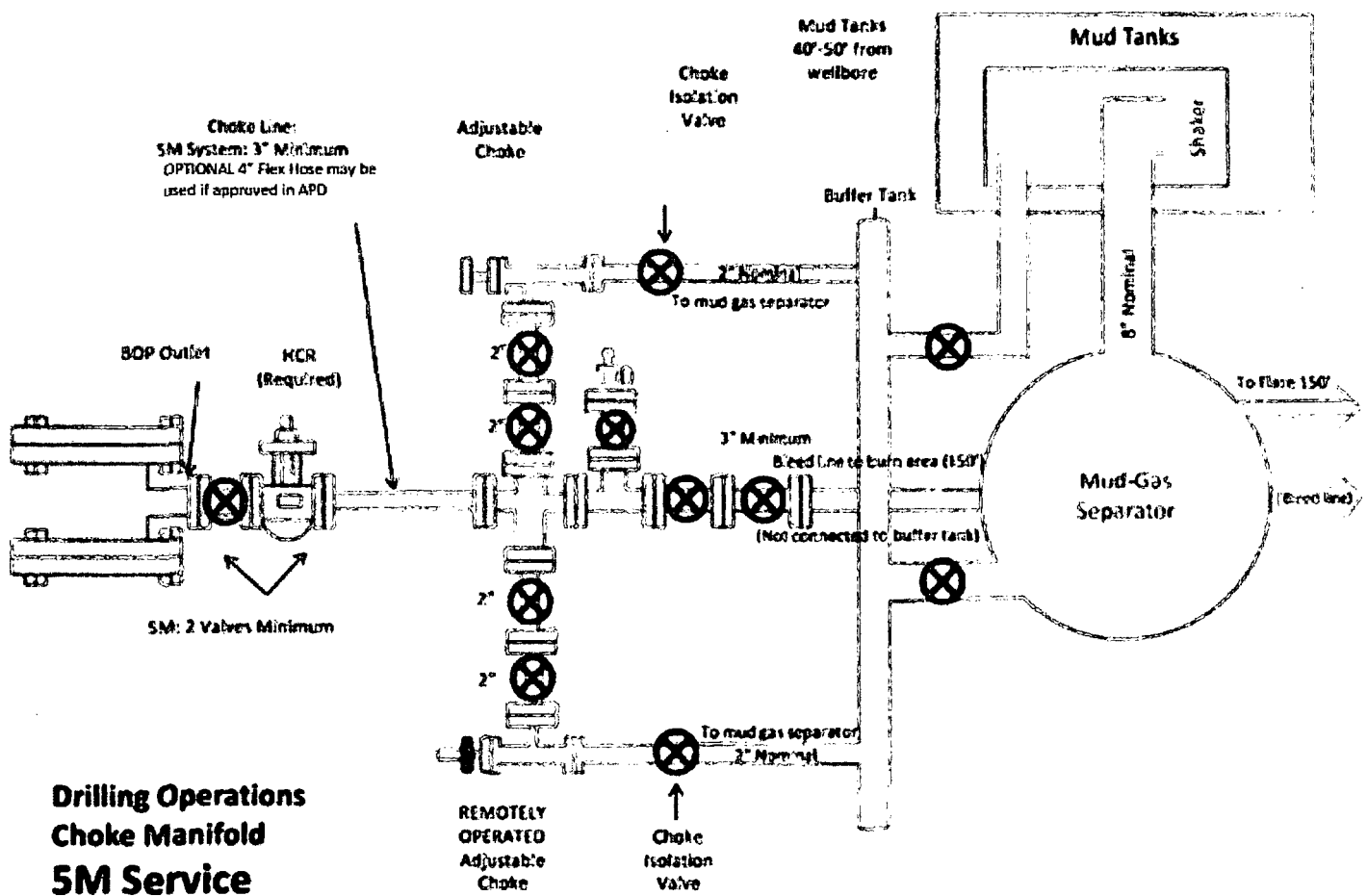
Other Variance attachment:

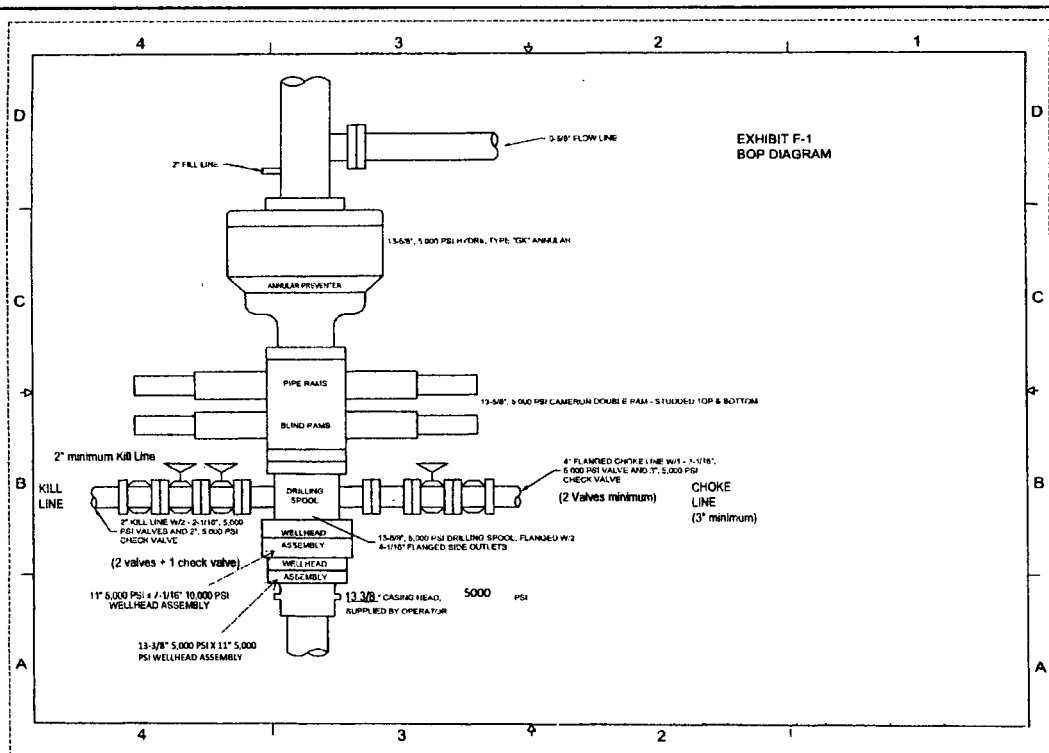
Cactus_Speed_Head_Installation_Procedure_20180417150709.pdf

Cactus_Speed_Head_Pressure_Testing_Statement_20180417150709.pdf

Cactus_Speedhead_Diagram_20180417150710.pdf

Choke_Hose_M55_1_07102017_145204_66_1225_04_14_2014_20180417150710.pdf





Casing Program: Minis (13 3/8" x 9 5/8" x 5 1/2")

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	8.4	2730	4.17	1130	1.72	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	1.37	520,000	212,000	2.45	630,000	212,000	2.97
Production																			
8.75"	0'	21,598'	10,990'	5 1/2"	20	P110	BTC	New	9.5	12630	2.33	11100	2.04	667,000	219,800	3.03	641,000	219,800	2.92

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:	8.4 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	8.4 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	8.4 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 1/3 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
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

Casing Program: Minis 13 3/8" x 9 5/8" x 5 1/2"

Open Hole Size (inches)	Casing Depth: From (ft)	Casing Setting Depth (ft)	Casing Setting Depth (ft)	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	8.4	2730	4.17	1130	1.72	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	1.37	520,000	212,000	2.45	630,000	212,000	2.97"
Production																			
8.75"	0'	21,598'	10,990'	5 1/2"	20	P110	BTC	New	9.5	12630	2.33	11100	2.04	667,000	219,800	3.03	641,000	219,800	2.92

Casing Design Criteria and Casing Loading Assumptions:

Surface	<p>Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of: 8.4 ppg</p> <p>Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of: 8.4 ppg</p> <p>Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of: 8.4 ppg</p>
Intermediate	<p>Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of: 10.2 ppg</p> <p>Collapse A 1.125 design factor with 1/3 TVD internal evacuation and collapse force equal to a mud gradient of: 10.2 ppg</p> <p>Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of: 10.2 ppg</p>
Production	<p>Tension A 1.8 design factor with effects of buoyancy with a fluid equal to a mud weight of: 9.5 ppg</p> <p>Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of: 9.5 ppg</p> <p>Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of: 9.5 ppg</p>



ContiTech

CONTITECH RUBBER
Industrial Kft.

No:QC-DB- 247/ 2014

Page: 5 / 68

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 702	
PURCHASER: ContiTech Oil & Marine Corp.			P.O. N°: 4500421193		
CONTITECH ORDER N°: 538448		HOSE TYPE: 3" ID Choke & Kill Hose			
HOSE SERIAL N°: 67554		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,66 m			
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature					
See attachment. (1 page)					
↑ 10 mm = 10 Min. → 10 mm = 20 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" 10K API Swivel Flange end Hub		1525 1519		AISI 4130 AISI 4130 AISI 4130	
				Heat N° A0579N 035608 A1126U	
Not Designed For Well Testing				API Spec 16 C	
Tag No.: 66 – 1225				Temperature rate:"B"	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
Date:	Inspector		Quality Control		
14. April 2014.			ContiTech Rubber Industrial Kft. Quality Control Dept. (1)		

		%	Conditec Industrie Quality Control
CN	+22.42	90	67:00
RD	+21.81	90	17:00
BL	+1054.	bar	7:00
CN	+22.28	90	6:50
RD	+21.64	90	6:50
BL	+1056.	bar	6:50
CN	+22.19	90	6:40
RD	+21.71	90	6:40
BL	+1057.	bar	6:40
CN	+22.01	90	6:30
RD	+21.43	90	6:30
BL	+1058.	bar	6:30
CN	+22.28	90	6:30
RD	+21.38	90	6:20
BL	+1060.	bar	6:20
CN	+22.06	90	6:10
RD	+21.32	90	6:10
BL	+1063.	bar	6:10
CN	+22.16	90	6:00
RD	+21.31	90	6:00
BL	+1067.	bar	6:00
11.04.2014. 15:50			
67542,67548,67554			15:50
11.04.2014. 15:40			
67542,67548,67554			15:40



Hose Data Sheet

CRI Order No.	538448
Customer	ContiTech Oil & Marine Corp.
Customer Order No	CBC557116 4500421193
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE SOURC/W BX155 ST/ST INLAID R.GR.
Type of coupling other end	FLANGE 4.1/16" 10KPSI API SPEC 17D SV SWIVEL FLANGE SOURC/W BX155 ST/ST INLAID R.GR.
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St. steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	Yes
Lifting collar	Yes
Element C	Yes
Safety chain	Yes
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15



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

SUPO Data Report

08/23/2018

APD ID: 10400026353

Submission Date: 02/07/2018

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Well Type: OIL WELL

Well Work Type: Drill



[Show Final Text](#)

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

BUFFALO_12_1_FED_COM_WCC_6H_ACCESS_ROUTE_MAP_11292017_20180117150109.pdf

BUFFALO_12_1_FED_COM_WCC_6H_VICINITY_MAP_11292017_20180117150110.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

BUFFALO_12_1_FED_COM_WCC_6H__SITE_MAP_11292017_20180117150120.pdf

New road type: RESOURCE

Length: 1100

Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 15

New road access erosion control: Road will be crowned and ditched to prevent erosion

New road access plan or profile prepared? NO

New road access plan attachment:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: BOTH

Access surfacing type description: 6" rolled and compacted caliche

Access onsite topsoil source depth: 6

Offsite topsoil source description: Surfacing material will consist of native caliche obtained from the well site if possible. Otherwise, caliche will be hauled from nearest caliche pit

Onsite topsoil removal process: Grading

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER

Drainage Control comments: Water will be diverted where necessary to avoid ponding, prevent erosion, maintain good drainage, and be consistent with local drainage patterns.

Road Drainage Control Structures (DCS) description: No drainage control necessary

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

BUFFALO_12_1_FED_COM_WCC_6H_MILE_RADIUS_MAP_11292017_20180117150132.pdf

Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: If well is productive, a tank battery will be installed on well pad. Tank battery construction and instillation plans will be submitted via Sundry Notice.

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING,
STIMULATION, SURFACE CASING

Water source type: GW WELL

Describe type:

Source latitude:

Source longitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 120000

Source volume (acre-feet): 15.467172

Source volume (gal): 5040000

Water source and transportation map:

BUFFALO_12_1_FED_COM_WCC_6H_VICINITY_MAP_11292017_20180123144811.pdf

Buffalo_Fed_Water_Source_Map_20180809143428.pdf

Water source comments:

New water well? NO

New Water Well Info

Well latitude:

Well Longitude:

Well datum:

Well target aquifer:

Est. depth to top of aquifer(ft):

Est thickness of aquifer:

Aquifer comments:

Aquifer documentation:

Well depth (ft):

Well casing type:

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Construction materials from the location will be used. No additional needs are anticipated.

Construction Materials source location attachment:

Section 7 - Methods for Handling Waste

Waste type: DRILLING

Waste content description: Drilling Fluids and Cuttings

Amount of waste: 6000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to approved disposal facility

Waste type: COMPLETIONS/STIMULATION

Waste content description: Completions Fluids

Amount of waste: 2000 barrels

Waste disposal frequency : Daily

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Trucked to an approved disposal facility

Waste type: FLOWBACK

Waste content description: Oil

Amount of waste: 1000 barrels

Waste disposal frequency : One Time Only

Safe containment description: Frac Tanks

Safe containmant attachment:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Waste disposal type: OTHER

Disposal location ownership: PRIVATE

Disposal type description: Private

Disposal location description: Haul to tank battery

Waste type: SEWAGE

Waste content description: Human Waste

Amount of waste: 50 pounds

Waste disposal frequency : Weekly

Safe containment description: Portable Toilets

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Serviced by toilet rental company

Waste type: GARBAGE

Waste content description: Trash and Debris

Amount of waste: 200 pounds

Waste disposal frequency : One Time Only

Safe containment description: roll off bin with netted top

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: Truck to commercial waste facility

Waste type: PRODUCED WATER

Waste content description: Produced water

Amount of waste: 4000 barrels

Waste disposal frequency : One Time Only

Safe containment description: Steel Tanks

Safe containmant attachment:

Waste disposal type: OTHER **Disposal location ownership:** PRIVATE

Disposal type description: Private

Disposal location description: Trucked to tank battery

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (ft.)

Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? YES

Description of cuttings location Stored in steel bin and hauled to disposal site by truck

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

BUFFALO_12_1_FED_COM_WCC_6H__SITE_MAP_11292017_20180117150206.pdf

Comments:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: BUFFALO 12-1 WEST

Multiple Well Pad Number: 1H,2H,3H,6H,7H,8H

Recontouring attachment:

Drainage/Erosion control construction: Drainage systems, if any, 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	Well pad interim reclamation (acres): 4.78	Well pad long term disturbance (acres): 4.78
Road proposed disturbance (acres): 0	Road interim reclamation (acres): 0.76	Road long term disturbance (acres): 0.76
Powerline proposed disturbance (acres): 0	Powerline interim reclamation (acres): 0	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 0	Pipeline interim reclamation (acres): 0	Pipeline long term disturbance (acres): 0
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 0	Total interim reclamation: 5.54	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:

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:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

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 Contact/Responsible Official Contact Info

First Name: Tim

Last Name: Green

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:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

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: BUREAU OF LAND MANAGEMENT

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:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Section 12 - Other Information

Right of Way needed? YES

Use APD as ROW? YES

ROW Type(s): 281001 ROW - ROADS

ROW Applications

SUPO Additional Information: APD RECIEPT ATTACHED

Use a previously conducted onsite? YES

Previous Onsite information: Onsite was conducted 10/26/2017; SHL was moved from Section 1 to Section 12.

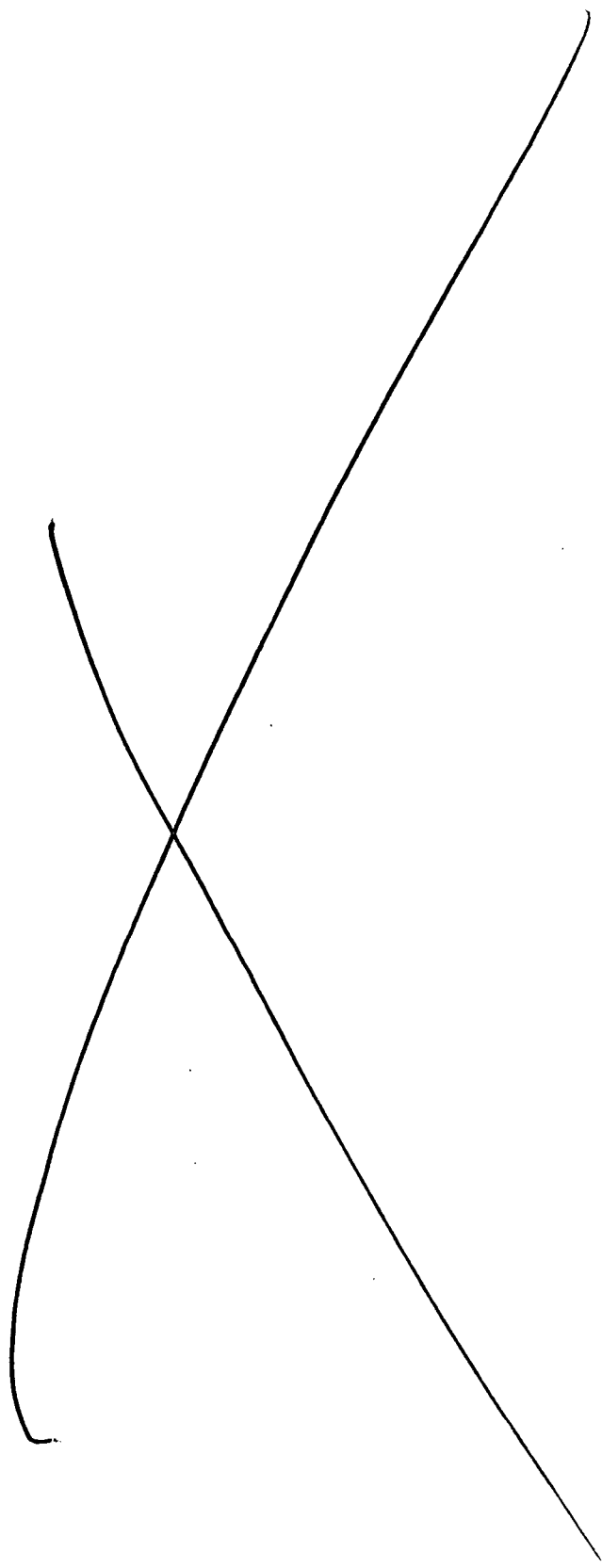
Other SUPO Attachment

BUFFALO_12_1_FED_COM_WCC_6H_AERIAL_MAP_11292017_20180117150234.pdf

BUFFALO_12_1_FED_COM_WCC_6H_LOC_VERIFICATION_MAP_11292017_20180117150234.pdf

Buffalo_12_1_APD_Receipt_20180207144813.pdf

BUFFALO_12_1_FED_COM_WCC_6H_GCP_08092018_20180809143334.pdf





Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

08/23/2018

Bond Information

Federal/Indian APD: FED

BLM Bond number: NMB001468

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: BUFFALO 12-1 FED COM WCC

Well Number: 6H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	330	FNL	127 0	FWL	19S	33E	1	Lot 4	32.69599 73	- 103.6209 876	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 058941	- 728 0	215 98	109 90
BHL Leg #1	330	FNL	127 0	FWL	19S	33E	1	Lot 4	32.69599 73	- 103.6209 876	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 058941	- 728 0	215 98	109 90



Receipt

Your payment is submitted

Pay.gov Tracking ID: 267K9PCP

Agency Tracking ID: 75418104809

Form Name: Bureau of Land Management (BLM) Application for Permit to Drill (APD) Fee

Application Name: BLM Oil and Gas Online Payment

Payment Information

Payment Type: Bank account (ACH)

Payment Amount: \$39,160.00

Transaction Date: 02/06/2018 10:05:23 AM EST

Payment Date: 02/07/2018

Company: CHISHOLM ENERGY OPERATING, LLC

APD IDs: 10400026141, 10400026347, 10400026353, 10400026425

Lease Numbers: NMNM4312, NMNM32680, NMNM32680, NMNM4312

Well Numbers: 4H, 1H, 6H, 5H

Note: You will need your Pay.gov Tracking ID to complete your APD transaction in AFMSS II. Please ensure you write this number down upon completion of payment.

Account Information

Account Holder Name: CHISHOLM ENERGY OPERATING, LLC

Routing Number: 114000093

Account Number: *****4470

Email Confirmation Receipt

Confirmation Receipts have been emailed to:

jelrod@chisholmenergy.com

jelrod@chisholmenergy.com