DEPARTMENT OF THE INTERIOR OCD HOUSE Law. Start No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REINTER APPLICATION FOR PERMIT TO DRILL OR REINTER TO THE APPLICATION APPLICATION FOR PERM	Form 3160-3 (June 2015)	Carl	lsbad F	ield		I APPROV No. 1004-0 January 31	/ED)137 , 2018
APPLICATION FOR PERMIT TO DRILL OR REENTER F. If Indian, Allance on Tode Name a Type of work: DRILL REENTER 7. If Unit of CA Agreement, Name and No. b. Type of Well: ON Well Gas Well Other 8. Leare Name and Well No. DIAMONDBACK 24 25 EED COM 285 HI Allarge Name of Operator 9. API Well No. Name of Operator DATION ENERGY OPERATING LCC (272/177) Note: The Operator Diamon of Vell (Report Locations of well and an excendance with any Star requirements. 7 To Mercy Fooder Strategies (171) 10. Forder Strategies (171) Ot Charry SL, Sule 1200 Unit 20 Fort Wonh TX 76102 [B Prote No. (include are requirements. 7 11. Sec. T. R. M. et Bit, and Survey or Ared SEC 24 / TISB / REZ / Nume A proposed price, zone LOT P / 330 FSL / 1220 FEL / LAT 32 62212 (LONG - 103 715081 11. Sec. T. R. M. et Bit, and Survey or Ared SEC 24 / TISB / REZ / Nume 3 Dataset from reprosed 125 foot 16. No of arcs in lease 17. Spacing Unit diadicated in the well ago 3 Dataset from reprosed Location* 19 Proposed Depth 20. If MARIA Rond No in Itle 13. Starte 1 Elevations (Show whether DF, KDH, RT, GL, ee 1 22. Approximate date work will start 23. Isomande dimation 21 Elevations on base file 4 24. Attachments 13. Starte 4 Botance from proposed Location* 19. Proposed Depth 20. If MARIA Rond No in Itle <	UNITED STATE DEPARTMENT OF THE I BUREAU OF LAND MAN	S INTERIOR IAGEMENT	OCDI	łobb	Lease Serial No MMNM086144).	· · · · · · · · · · · · · · · · · · ·
Type of work:	APPLICATION FOR PERMIT TO D	ORILL OR	REENTER		6. If Indian, Allote	e or Tribe	Name
h: Type of Well Other It cases Name and Well No. c: Type of Completion Bydnatic Practuring Single Zone Multiple Zone Name of Operator It cases Name and Well No. DIAMONDBACK 24-25 FED COM 285 214 Name of Operator It ford and Pool or typestory It ford and Pool or typestory At strates It ford and Pool or typestory It ford and Pool or typestory TOMFOF BOOK SPRNAG LUK (Strate Strate Code) It ford and pool or typestory It ford and Pool or typestory It sees Name and Well No. It ford and pool or typestory It ford and Pool or typestory It sees Name and Well No. It ford and pool or typestory It ford and Pool or typestory It sees Name and Well No. It ford and pool or typestory It for an and forection from nearest streen or post other It for an and forection from nearest streen or post other It for an and direction from nearest streen or post other It for an and forection from nearest streen or post other It for an and forection for nearest It for an and direction from nearest streen or post other It for an and forection for nearest It for an an an and direction from nearest streen or post other It for an and direction from nearest streen or post other It for an and forection an an an and be react streen an	la. Type of work: I DRILL	REENTER	<u></u>		7. If Unit or CAA	greement.	Name and No.
c: Type of Completion Hydraulic Fracturing Single Zone Multiple Zone DIAMONDBACK 24:25 FED COM 285 21 Name of Operator 9 APT Well No 9 APT Well No 9 APT Well No Address 10 Field and Mode, Esploratory 11 Field and Mode, Esploratory 11 Field and Mode, Esploratory Address 11 Field and Mode, Esploratory 11 Sec. T. R. M. of Blx and Sarvey or Arec Sile Othery State LOT A1125 FmL / 690 FEL / LAT 32 6527122 / LONG - 103 7134023 11 Sec. T. R. M. of Blx and Sarvey or Arec At strake LOT A1125 FmL / 690 FEL / LAT 32 6527122 / LONG - 103 7134023 13 Sec. 24 / T198 / R32E / NMP A tarriage Ion from nearest form or post office* 12 Comptonest* 13 Sec. 24 / T198 / R32E / NMP A barriage form proposed 125 feel 16 No of acres in lease 17 Spacing Dait/ Kall All Sec. A barriage form proposed is accordance with the requirements of Orshure OI and Sec. 24 / T198 / R32E / NMP 13 Sec. 13 Sec. S Dialance from proposed is accordance with the requirements of Orshure OI and Sec. 24 / T198 / R32E / T28 /	1b. Type of Well: 📝 Oil Well 🗌 Gas Well 🗌 C	Other			8. Lease Name and	d Well No.	
Name of Operator 9 ArtM (k)1 Not PHSHOLM ENERGY OPERATING LLC (27,47,77) 11 Field and Mul, or Exploratory Address 11 Field and Mul, or Exploratory 11 Field and Mul, or Exploratory Field and Mul, or Exploratory B1 Cherry St, Suife 1200 Unit 20 Fort Worth X 76102 [11,7498-1104 11 Sec. T. R. M. or Bilk and Survey or Arcl A startice. LOT A1 25 FNL (490 FEL / LAT 32 652122 L/ ONG -103.715081 11. Sec. T. R. M. or Bilk and Survey or Arcl A proposed prod. zook LOT P / 330 FSL / 1220 FEL / LAT 32 65249238 / LONG -103.715081 12. County or Parish 13. State J. Distance from proposed? 125 feet 16. No of across in lease. 17. Spacing: Unit dedicated to this well Proposed for a more state (1,17) 12 feet 10. No of across in lease. 17. Spacing: Unit dedicated to this well Proposed for a more state (1,17) 19 proposed Depth 20 Bl MBIA Bond No. In file 90 B rotance from proposed (2 count) 19 Proposed Depth 20 Bl MBIA Bond No. In file 90 B rotance from proposed location? 10 Proposed Depth 20 Bl MBIA Bond No. In file 90 B rotance from proposed location? 10 Proposed Depth 20 Bl MBIA Bond No. In file 90 B	Ic. Type of Completion: Hydraulic Fracturing S	Single Zone	Multiple Zone	:	DIAMONDBACK 2H	24-25 FE	ED COM 285
a. Address b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 7315 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Phone No. (include area code) b. Cherry SL, Suite 1200 Unit 20 Fort Worht X 731 b. Suite Composed Near SL, Suite 1200 Fort S	2. Name of Operator CHISHOLM ENERGY OPERATING LLC (372/37)			9. API Well No. 70-025 -	-41	1215
Location of Well (Report location clearly and in accordance with any State requirement, ') As surface_LOT A / 125 FNL / 690 FEL / LAT 32 6527122 / LONG -103.7134023 At proposed priod. youre_LOT P / 330 FSL / 1220 FEL / LAT 32 6529238 / LONG -103.715081 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 1. Sec, 'T, R. M. or Bik and Survey or Area SEC 24 / T19S / R32E / NMP 2. Support of tags in R. R. (In the scale in R. '199 / Proposed Depth 1. Sec, '197 / Sec 11 / 197 / 197 / Sec 11 / 197	3a. Address V 801 Cherry St., Suite 1200 Unit 20 Fort Worth TX 76102	3b. Phone N (817)469-1	io. <i>(include area ce</i> 104	de)	10. Field and Pool TONTO / BONE	, or Explor SPRING	LUGK BL
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2.2 miles LEA Number 5 Distance from proposed* property or leads in enerst moperty or leads in enere	At proposed prod. zone LOT P / 330 FSL / 1220 FEL / L	AT 32.62492	38 / LONG -103.	715081	12 County or Pari	ish	13 State
5 Distance from proposed* property or lease line. ft. (Also to nearest df. dftling, completed, 60 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 8 Distance from proposed location* to nearest well, dftling, completed, 60 feet 19. Proposed Depth 20. BL/MBIA Bond No. in file 9 Distance from proposed location* to nearest well, dftling, completed, 60 feet 9734 feet / 19855 feet 21. Exclusions (Show whether DF, KDB, RT, GL, etc.) 8 Distance from proposed location* to nearest well, dftling, completed, 60 feet 9734 feet / 19855 feet 23. Estimated duration 980 /12018 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 980 /12018 3 days	12.2 miles			- T	LEA		NM
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5. Signature Name (Printed/Typed) Date Electronic Submission) Jennifer Elrod / Ph: (817)953-3728 12/05/2017 itle Senior Regulatory Technician Date pproved by (Signature) Cody Layton / Ph: (575)234-5959 Date Electronic Submission) Cody Layton / Ph: (575)234-5959 07/13/2018 itle Office CARLSBAD Assistant Field Manager Lands & Minerals CARLSBAD 07/13/2018 itle 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 fithe United States any false. fictitious or traudulent statements or representations as to any matter within its jurisdiction. Mathematical Mathmathmenterescience Mathematical Mathmaterescience Math	3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office	em Lands, the e).	5. Operator certi: 6. Such other site BLM.	specific infor	mation and/or plans	as may be r	requested by the
Itle Senior Regulatory Technician pproved by (Signature) Date Electronic Submission) Cody Layton / Ph: (575)234-5959 Date Office Assistant Field Manager Lands & Minerals Office Assistant Field Manager Lands & Minerals CARLSBAD Performance piplication 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 opplicant to conduct operations thereon. Onditions of approval, if any, are attached. itle 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 fithe United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Mamuulan Mathematican Mathematican Statements or person knowingly and willfully to make to any department or agency fithe United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Mamuulan Mathematican Statements or the person knowingly and willfully to make to any department or agency fithe United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Continued on page 2) Continued on page 2) Mathematican Statements or control of the person knowingly and will fully to make to any department or agency files (Instructions on page 2)	25. Signature (Electronic Submission)	Name Jennif	(Printed/Typed) er Elrod / Ph: (81	7)953-3728	l	Date 12/05/2	2017
pproved by (Signature) Name (Printed/Typed) Date Electronic Submission) Cody Layton / Ph: (575)234-5959 07/13/2018 itle Office CARLSBAD Assistant Field Manager Lands & Minerals CARLSBAD Pilcation 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 pplicant to conduct operations thereon. Onditions of approval, if any, are attached. intel 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 for the United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Warrent of the United States any false. fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Continued on page 2) Continued on page 2) *(Instructions on page 2)	Title Senior Regulatory Technician						
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	ppro	oval Date	: 07/06/2018				
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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 I: 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 wen, 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 directionany 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 wen 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 win 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 conects this information to anow 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 Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

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Additional Operator Remarks

Location of Well

1. SHL: LOT A / 125 FNL / 690 FEL / TWSP: 19S / RANGE: 32E / SECTION: 24 / LAT: 32.6527122 / LONG: -103.7134023 (TVD: 0 feet, MD: 0 feet) PPP: LOT A / 510 FNL / 1220 FEL / TWSP: 19S / RANGE: 32E / SECTION: 24 / LAT: 32.6516573 / LONG: -103.7151224 (TVD: 9734 feet, MD: 10223 feet) BHL: LOT P / 330 FSL / 1220 FEL / TWSP: 19S / RANGE: 32E / SECTION: 25 / LAT: 32.6249238 / LONG: -103.715081 (TVD: 9734 feet, MD: 19855 feet)

BLM Point of Contact

Name: Tenille Ortiz Title: Legal Instruments Examiner Phone: 5752342224 Email: tortiz@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.

WAFMSS

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

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Jennifer Elrod

Signed on: 12/05/2017

Decrator Certification Data Report

09/06/2018

Title: Senior Regulatory Technician

Street Address: 801 CHERRY STREET, SUITE 1200-UNIT 20

State: TX

State:

City: Fort Worth

Zip: 76102

Phone: (817)953-3728

Email address: jelrod@chisholmenergy.com

Field Representative

Representative Name:

Street Address:

City:

Phone:

Email address:

Zip:

VAFMSS

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

Application Data Report

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09/06/2018

APD ID: 10400023579

Operator Name: CHISHOLM ENERGY OPERATING LLC Well Name: DIAMONDBACK 24-25 FED COM 2BS Well Type: OIL WELL Submission Date: 12/05/2017

Zip: 76102

Well Number: 2H Well Work Type: Drill



Show Final Text

Section 1 - General		
APD ID: 10400023579	Tie to previous NOS?	Submission Date: 12/05/2017
BLM Office: CARLSBAD	User: Jennifer Elrod	Title: Senior Regulatory Technician
Federal/Indian APD: FED	Is the first lease penetrated f	for production Federal or Indian? FED
Lease number: NMNM086144	Lease Acres: 160	
Surface access agreement in place?	Allotted? Re	eservation:
Agreement in place? NO	Federal or Indian agreement	:
Agreement number:		
Agreement name:		
Keep application confidential? NO		
Permitting Agent? NO	APD Operator: CHISHOLM E	NERGY OPERATING LLC
Operator letter of designation:		

Operator Info

.	• • •					<u> </u>
Operator (Organization	Name:	CHISHOLM	ENERGY	OPERATIN	G LLC

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

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	Mater Development Plan name:	
Well in Master SUPO? EXISTING	Master SUPO name: JE	
Well in Master Drilling Plan? EXISTING	Master Drilling Plan name: DIA	MNONDBACK 24-25 BS
Well Name: DIAMONDBACK 24-25 FED COM 2BS	Well Number: 2H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: TONTO	Pool Name: BONE SPRING

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

Well Number: 2H

Desc	ribe c	other	miner	als:														
ls the	e prop	osed	well i	in a H	elium	prod	uctio	n area?	N Use E	Existing W	ell Pa	1? NO	Ne	ew s	surface o	listur	bance	?
Туре	of W	ell Pa	d: MU	LTIPL	.E WE	LL			Multi	ple Well P	ad Nar	ne:	Nu	ımt	ber: 1H, 2	2H, 3F	1	
Well	Class	: HOF	RIZON	ITAL					DIAM Numb	ONDBACH Der of Leg	(PAD s: 1	1						
Well	Work	Туре	: Drill															
Well	Туре:	OIL	VELL															
Desc	ribe V	Vell T	ype:															
Well	sub-T	ype:	INFILI	-														
Desc	ribe s	ub-ty	pe:															
Dista	ince to	o tow	n: 12.	2 Mile	s		Dis	tance to	nearest v	vell: 60 FT	-	Dist	ance t	o le	ase line	: 125	FT	
Reservoir well spacing assigned acres Measurement										cres								
Weli	plat:	DI		IDBA(CK_24	FEC	_2BS	5_2H_RE	EV_APD_0	C1O2_051	72018 <u>-</u>	_20180	51812	273	3.pdf			
Well work start Date: 08/01/2018										t ion: 30 DA	AYS							
	Sec	tion	3 - V	Vell	Loca	atior	n Tal	ole										
Surv	ey Typ	be: RE	ECTA	NGUL	AR													
Desc	ribe S	urvey	/ Туре	e :														
Datu	m: NA	D83							Vertic	al Datum:	NAVE	88						
Surv	ey nui	nber:	5587															
	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	۵۷۲
SHL Leg #1	125	FNL	690	FEL	19S	32E	24	Lot A	32.65271 22	- 103.7134 023	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 086144	362 1	0	0
KOP Leg #1	125	FNL	690	FEL	19S	32E	24	Lot A	32.65271 22	- 103.7134 023	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 086144	- 543 9	906 0	906 0
PPP 510 FNL 122 FEL 19S 32E 24 Lot A 1 #1									32.65165 73	- 103.7151 224	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 086144	- 611 3	102 23	973 4

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	DM	DVT
EXIT Leg #1	330	FSL	122 0	FEL	19S	32E	25	Lot P	32.62492 38	- 103.7150 81	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 012413	- 611 3	198 55	973 4
BHL Leg #1	330	FSL	122 0	FEL	19S	32E	25	Lot P	32.62492 38	- 103.7150 81	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 012413	- 611 3	198 55	973 4

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

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	1200	0	1200	3620	2415	1200	J-55	54.5	BUTT	2.15	5.19	DRY	13.8 4	DRY	12.9 9
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	5500	0	5500	3620	-1580	5500	J-55	40	LTC	1.4	1.43	DRY	2.5	DRY	3.03
3	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19855	0	9734	3620	-6114	19855	P- 110	17	витт	1.61	2.28	DRY	3.43	DRY	3.3

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing Assumptions zon nizinazon pu

Well Number: 2H

Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions_20171121142207.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Assumptions_20171121142529.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	855	434	2.53	12	1099	85	Class C	Sodium Metasilicate, Defoamer, KCL			
SURFACE	Tail		855	1205	341	1.32	14.8	450	85	Class C	none			
INTERMEDIATE	Lead	3280	3280	1630	366	2.31	12	846	100	Class H	Sodium Metasilicate, Defoamer, KCL, Kol- Seal, Cellophane Flakes, ROF SealCheck			
INTERMEDIATE	Tail		4850	5200	180	1.22	14.4	219	100	Class H	Fluid Loss, Dispercent, Retarder			

Operator Name: CHISHOLM ENERGY OPERATING LLC Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	3280	0	3280	740	2.43	12	1797	100	Class C	Sodium Metasilicate, Defoamer, KCL, Kol- Seal, Cellophane Flakes, ROF SealCheck

PRODUCTION	Lead	4700	9234	363	2.92	12	1404	15	Class C	Bentonite, Compressive Strength Enhancer, Silica Fume Alternative, Fluid Loss, Defoamer, Sodium Metasilicate, Retarder
PRODUCTION	Tail	9234	1985 5	2916	1.15	15.8	3354	15	Class H	Fluid Loss, Suspension Agent, Retarder, Defoamer, Dispersant

Section 5 - Circulating Medium

Circulating Medium Table

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

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	1205	SPUD MUD	8.5	9.2							
1205	5200	SALT SATURATED	9.8	10.2							

Vell Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	H	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
5200	9734	WATER-BASED MUD	8.6	8.9							

Section 6 - Test, Logging, Coring

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

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

L,DS,GR,MWD

ring operation description for the well:

ne

Section 7 - Pressure

ticipated Bottom Hole Pressure: 4500

Anticipated Surface Pressure: 2358.52

ticipated Bottom Hole Temperature(F): 163

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

scribe:

ntingency Plans geoharzards description:

ntingency Plans geohazards attachment:

drogen Sulfide drilling operations plan required? YES

drogen sulfide drilling operations plan:

Lea_County_H2S_plan_20180517150448.pdf

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Diamondback_24_25_Fed_2BS_2H_Plan_2_AC_Report_20180613081343.pdf Diamondback_24_25_Fed_2BS_2H_Plan_2_20180613081343.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

FW_EXTERNAL_4_String_Casing_Area_20180613081750.txt

Other Variance attachment:

Cactus_Speed_Head_Installation_Procedure_20180517150527.pdf Cactus_Speed_Head_Pressure_Testing_Statement_20180517150528.pdf Cactus_Speedhead_Diagram_20180517150528.pdf Choke_Hose_M55_1_07102017_145204_66_1225_04_14_2014__20180517150528.pdf





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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 (Ib/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													1						
17.5"	0'	1,205'	1,205'	13 3/8"	54.5	J-55	BTC	New	8.4	2730	5.19	1130	· 2.15, · ·	909,000	65,673	3 13.84 .	853,000	65,673	12.99
Intermediate																			
12.25"	0'	5,200'	5,200'	9 5/8"	40	J-55	LTC	New	10.2	3950	1.43	2570	1.40	520,000	208,000	- 2.50	630,000	208,000	3.03
Production																			
8.75"	0'	19,855'	9,734'	5 1/2"	17	P-110	BTC	New	9.2	10640	2.28	7480	1.61	568,000	165,478	, 3.43	546,000	165,478	3.30

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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:	9.2 ppg
Collapse A 1.125 design factor with full internal evacuation and collapse force equal to a mud gradient of:	9.2 ppg
Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.2 ppg

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05.5	8/\$'591	000'975	£9:E	8/¢'591	000'895	19'1	7480	82.2	10640	<u>2</u> .9	wəM	81C	6-110	2ι	"Z/T S	.\$£2/6	.558'6T	,0	52`8
																			roduction
£0.E	208'000	630,000	05'7	208'000	220,000	1'40	0252	1.43	0568	2.01	wəN	110	1-22	07	8/56	,00Z'S	2'500,	,0	12.25"
				•															atsibamıatn
66°ZT	829'59	000'858	13.84	£29'S9	000'606	51.5	1130	6T'S	0£7 <u>5</u>	\$°8	wəN	518 BTC	1-22	5.4.5	13 3\8.	.\$07'T	,507'T	0,	"S'ZT
																			abehu
Tension Sody SF (3.8)	htaisW الع (zdl)	Tension (klbs) vboð	Tension J2 Iniol (1.8)	hgisW ئنہ (zdl)	Tension (klbs) triol	SCIIspse SF (1.125)	esqello) (izq)	Burst SF (1.125)	(isq) teruð	Anticipated IngieW buM (3qq)	noitibnoD	Тһгеад	gnize) 9be1Đ	gnizeD IrlgieW (IT/dl)	gnise) Size (zadzni)	gnizeD Seiting (ft) (ft) UVT	gnizeD Setting (ft) (ft) OM	Saing Depth; (f) mor?	Open Hole Size (Inches)

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

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Open Hole Size (Inches)	Casing Depth; From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Casing Size (inches)	Casing Weight (Ib/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)
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Production																	-		
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Burst A 1.125 design factor with full external evacuation and burst force equal to a mud gradient of:	9.2 ppg

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. <u>All Company and Contract personnel admitted on location must be trained by a gualified H2S</u> 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.
- 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. <u>Communication</u>:
 - 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

Subject: FW: [EXTERNAL] 4 String Casing Area From: Stevens, Zota [mailto:zstevens@blm.gov] Sent: Thursday, June 07, 2018 11:20 AM To: Nick Cleveland Subject: Re: [EXTERNAL] 4 String Casing Area Dear Nick. Talk to the Geologist and he said it is ok. We recommend 4 string in that area but 3 is ok. Zota Stevens Petroleum Engineer Bureau of Land Management 620 E Greene St. Carlsbad, NM 88220 E-mail: zstevens@blm.gov Office: (575) 234-2228 Fax: (575) 234-5927 On Thu, Jun 7, 2018 at 9:07 AM, Nick Cleveland <ncleveland@chisholmenergy.com> wrote: Zota, This map is difficult to read regarding the sections in which the 4 string area boundary falls. Can you tell me which sections lines in 19S 32E the boundary falls on? I suspect we are right on the boundary with our surface location and if possible, would like to be considered for an exception to the 4 string rule. Looking at the OCD website, there are some recently drilled wells closely offset to our proposed Diamondback location that indicate similar casing seats to what we have proposed. Particularly the Lusk 23 Fed No 1 (30-025-35785), Ocioso 28 Federal Com #4H (30-025-43413), Ocioso 21 Federal Com 3H ((30-025-43412) and the Ocioso 21 Federal Com 1H (30-025-43410). Each of these surface locations are south of the proposed Diamondback Surface locations and appear to have not been subject to the 4 string rule. The BLM s consideration of approving the 3 string design that was submitted is greatly appreciated. If we will be required to set 4 strings of casing, please provide guidance as to the depth/formation that needs to be protected at each casing seat. Thanks. Nick Cleveland Sr. Drilling Engineer | NEW TECH GLOBAL M: (817) 266-3376 | O: (817)-885-8740 ncleveland@ntglobal.com From: Stevens, Zota [mailto:zstevens@blm.gov] Sent: Thursday, June 07, 2018 9:32 AM To: Nick Cleveland

Subject: Re: [EXTERNAL] Cottonwood 29-32 Fed Com 2BS 10 H - Cement Volumes

Dear NIck, The DiamondBack wells do have to be 4 string. I am attaching the map with all all the critical areas we look at. If any questions please contact me. Thanks.

Zota Stevens Petroleum Engineer Bureau of Land Management 620 E Greene St. Carlsbad, NM 88220 E-mail: zstevens@blm.gov Office: (575) 234-2228

Fax: (575) 234-5927

On Thu, May 10, 2018 at 8:32 AM, Nick Cleveland <ncleveland@chisholmenergy.com> wrote: Mr. Stevens,

The cement volumes for the 5-1/2 production string on the Cottonwood 29-32 Fed Com 2BS 10H are anticipated as follows:

Please let me know if you have any questions or need additional information.

Thanks,

Nick Cleveland Sr. Drilling Engineer | NEW TECH GLOBAL M: (817) 266-3376 | O: (817)-885-8740 ncleveland@ntglobal.com | www.global.com INFORMATION CONTAINED HERE, THE PROPERTY OF CACTUS WELLHEAD, LL (EPRODUCTION, DISCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY CACTUS WELLHEAD, LLC.

System Drawing





Chisholm Energy 13-3/8" x 9-5/8" x 5-1/2" 5/10M MBU-3T Wellhead, With CTH-HPS-F MOD Tubing Head

IP 0571 Page 1



CONTITECH RUBBER
Industrial Kft.No:QC-DB- 247/ 2014Page:5 / 68

ContiTech

		ALITY CON	NTROL ST CE	RTIFI	CATE		CERT. I	N°:	702	
PURC	HASER:	ContiTec	h Oil & N	larine C	Corp.		P.O. N°:		4500421193	
CONT	ITECH ORDER Nº:	538448	HOSE	E TYPE:	3"	ID		Choke &	& Kill Hose	
HOSE	SERIAL Nº:	67554	NOM	NOMINAL / ACTUAL LENGTH:				10,67 m	n / 10,66 m	
W.P.	68,9 MPa	10000	psi T.P.	103,4	MPa	1500)O psi	Duration:	60	min.
1	0 mm = 10	Min.	See	e attach	oment.	(1 pa	ge)			
→ 1	0 mm = 20	MPa		Corie				wality		
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STA con accord	TEMENT OF CONFO ditions and specifical lance with the refere	ORMITY: We here tions of the above F nced standards, co	by certify th Purchaser C des and spe	at the abo order and t ecifications	ve items/e hat these and mee	equipmen items/equ t the rele	t supplied upment we vant accep	by us are in c ere fabricated ptance criteria	onformity with the te inspected and tested and design requiren	rms, d in nents.
Date:			Quality Control					<u> </u>		
	4. April 2014.				20 an	<u></u>	in an lock	Industrial K lity Control	blar ft. Datach) •

ContiTech Rubber Industrial Kit. | Budapesti út 10. H-6728 Szeged | H-6701 P.O.Box 152 Szeged, Hungary Phone: +36 62 566 737 | Fax: +36 62 566 738 | e-mail: info@fluid.contitech.hu | Internet: www.contitech-rubber.hu; www.contitech.hu The Court of Csongråd County as Registry Court | Registry Court No: Cg.06-09-002502 | EU VAT No: HU11087209 Bank data Commerzbank Zrt., Budapest | 14220108-26830003 1

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No: 696, 701, 702 Page: 1/1

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ContiTech

Hose Data Sheet

CRI Order No.	538448
Customer	ContiTech Oil & Marine Corp.
Customer Order No	CBC5571164500421193
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 SOUR C/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

APD ID: 10400023579

Submission Date: 12/05/2017

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Type: OIL WELL

Well Number: 2H Well Work Type: Drill

Hyblighist care chisterihermost legeništemgės

09/06/2018

SUPO Data Report

Show Final Text

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

 DIAMONDBACK_24_FED_2BS_2H_ACCESS_ROUTE_MAP_10092017_20171019093550.pdf

 DIAMONDBACK_24_FED_2BS_2H_LOC_VERIFICATION_MAP_10092017_20171019093550.pdf

 DIAMONDBACK_24_FED_2BS_2H_VICINITY_MAP_10092017_20171019093551.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 Recon	structed Access Roads
Will new roads be nee	ded? YES	
New Road Map:		
DIAMONDBACK_24_F	ED_2BS_2H_SITE_M	AP_10092017_20171019093621.pdf
New road type: RESO	URCE	
Length: 282	Feet	Width (ft.): 30
Max slope (%): 2		Max grade (%): 1
Army Corp of Enginee	ers (ACOE) permit req	juired? NO
ACOE Permit Number	(s):	
New road travel width	: 15	
New road access eros	iion control: Road will	be crowned and ditched to prevent erosion
New road access plan	or profile prepared?	NO
New read access plant	atta alamantı	

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

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:

DIAMONDBACK_24_FED_2BS_2H_MILE_RADIUS_MAP_10092017_20171019093648.pdf

Diamondback_24_25_Fed_Com_Mile_Radius_Spreadsheet_10092017_20171019093701.xlsx 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	
Operator Name:	CHISHOLM	ENERGY	OPERATING LLC	

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Section 5 - Location and Types of Water Sup	ply
Water Source Table	
Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type:	Water source type: GW WELL
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:

DIAMONDBACK_24_FED_2BS_2H_VICINITY_MAP_10092017_20171019093859.pdf

Water source comments: This location will be drilled using a combination of water mud systems (outlined in the Drilling Program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using the existing and proposed roads described and depicted on the "Vicinity Map". On occasion, water will be obtained from a pre-existing water well, running a pump directly to the drill rig. In cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If a poly pipeline is used, the size, distance, and map showing route will be provided to the BLM via sundry notice.

New Water Well Ir	nfo	
Well latitude:	Well Longitude:	Well datum:
Well target aquifer:	-	
Est. depth to top of aquifer(ft):	Est thickness o	f aquifer:
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside	e diameter (in.):
New water well casing?	Used casing sour	ce:
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth	(ft.):

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Well Production type:

Completion Method:

Water well additional information:

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 Disposal location ownership: COMMERCIAL FACILITY

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 Disposal location ownership: COMMERCIAL FACILITY 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

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Safe containmant attachment:						
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 type description:	Disposal location ownership: COMMERCIAL					
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 ne	tted top					
Safe containmant attachment:						
Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description:						
Disposal location description: Truck to commerce	ial 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 ba	attery					

`

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

Reserve Pit	

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit?

Reserve pit length (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

Reserve pit width (ft.)

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 depth (ft.)

Cuttings area volume (cu. yd.)

Cuttings area width (ft.)

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:

DIAMONDBACK_24_FED_2BS_2H_SITE_MAP_10092017_20171019093942.pdf

Comments:

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

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Section 10 • Plans for Surface Reclamation
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Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: DIAMONDBACK PAD 1

Multiple Well Pad Number: 1H, 2H, 3H

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	Well pad interim reclamation (acres):	Well pad long term disturbance
(acres):	4.78	(acres): 4.78
Road proposed disturbance (acres):	Road interim reclamation (acres): 0.76	Road long term disturbance (acres):
Powerline proposed disturbance	Powerline interim reclamation (acres):	Powerline long term disturbance
Pipeline proposed disturbance	Pipeline interim reclamation (acres): 0	(acres): Pipeline long term disturbance
(acres): Other proposed disturbance (acres):	Other interim reclamation (acres): 0	(acres): 0
	Total interim reclamation: 5.54	Other long term disturbance (acres): 0
lotal proposed disturbance:		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: DIAMONDBACK 24-25 FED COM 2BS	Well Number: 2H
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 Offic	ial 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 m	onitored, and weeds will be treated
Weed treatment plan attachment:	

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

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:

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Well Number: 2H

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 Applications

ROW Type(s): 281001 ROW - ROADS

SUPO Additional Information: The Diamondback 24-25 Fed 2BS 2H wellbore goes through BLM leases: NMNM086144, NMM0077006, and NMNM012413

Use a previously conducted onsite? YES

Previous Onsite information: Onsite was conducted 09/26/2017. BLM requested moving pad 200[°] E and reducing pad site by 60[°] because of sand dunes. Located in PA area.

Other SUPO Attachment

DIAMONDBACK_24_FED_2BS_2H_AERIAL_PHOTO_10092017_20171019094213.pdf DIAMONDBACK_24_25_FED_2BS_2H_GCP_05172018_20180517150905.pdf DIAMONDBACK_APD_RECEIPT_20180517150927.pdf



Bureau of Land Management Application for Permit to Drill (APD) Fee



Company Information

* Company:	CHISHOLM ENERGY OPERATING, LLC					
* Address:	801 CHERRY ST., SUITE 1200 UNIT-20					
* City:	FORT WORTH	* State:	Texas	* Postal Code:	76102	
* Country:	United States	·····				

Well Information

(Note: 24,999.99 is the maximum amount that may be charged to an individual credit card per day)

	BLM Office:	APD ID:	Lease Number:	Well Name:	Well Number:	Amount:
#1).	Carlsbad, NM	10400023642	NMNM86144	Diamondback 24-25 Fed 2BS	3Н	\$9,790.00
#2)	Carlsbad, NM	10400023579	NMNM86144	Diamondback 24-25 Fed 2BS	2Н	\$9,790.00
#3)	Carlsbad, NM	10400023405	NMNM86144	Diamondback 24-25 Fed 2BS	1H	\$9,790.00
#4)						\$9,790.00
#5)						\$9,790.00
#6)						\$9,790.00
#7)						\$9,790.00
#8)						\$9,790.00
#9)						\$9,790.00
#10)						\$9,790.00
#11)						\$9,790.00
#12)						\$9,790.00
#13)						\$9,790.00
#14)						\$9,790.00
#15)						\$9,790.00

Total Payment Amount ho

\$29,370.00



Receipt

Your payment is submitted

Pay.gov Tracking ID: 266D6AIC Agency Tracking ID: 75377140302 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: \$29,370.00 Transaction Date: 12/05/2017 01:53:40 PM EST Payment Date: 12/06/2017 Company: CHISHOLM ENERGY OPERATING, LLC APD IDs: 10400023642, 10400023579, 10400023405 Lease Numbers: NMNM86144, NMNM86144, NMNM86144 Well Numbers: 3H, 2H, 1H 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

Email Confirmation Receipt

Confirmation Receipts have been emailed to: jelrod@chisholmenergy.com amccullough@chisholmengergy.com



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

Section 1 - General

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

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Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO Produced Water Disposal (PWD) Location: PWD surface owner: 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: Decribe 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:

PWD disturbance (acres):

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe 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:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned 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:

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:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:

Injection well name:

Injection well API number:

PWD disturbance (acres):

PWD disturbance (acres):

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

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?

Bond Info Data Report

14.

09/06/2018

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:

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Drilling Plan Data Report

APD ID: 10400023579

Submission Date: 12/05/2017

Nghiaphed daa wikele Harmosk wikelik dhamees

Show Final Text

Well Work Type: Drill

Well Number: 2H

Well Type: OIL WELL

Section 1 - Geologic Formations

Operator Name: CHISHOLM ENERGY OPERATING LLC

Well Name: DIAMONDBACK 24-25 FED COM 2BS

Formation			True Vertical	Measured		· · ·	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
1	RUSTLER	3620	0	0	ANHYDRITE	NONE	No
2	SALADO	2135	1485	1485	SALT	NONE	No
3	SEVEN RIVERS	466	3154	3154	DOLOMITE,ANHYDRIT E	NONE	No
4	QUEEN	-593	4213	4213	LIMESTONE, SANDSTO NE, DOLOMITE	NATURAL GAS,OIL	No
5	DELAWARE	-3055	6675	6675	SHALE, SANDSTONE, SI LTSTONE	NATURAL GAS, OIL	No
6	BONE SPRING	-4064	7684	7684	LIMESTONE, SHALE	NATURAL GAS,OIL	No
7	BONE SPRING 1ST	-5166	8786	8786	SHALE, SANDSTONE, SI LTSTONE	NATURAL GAS,OIL	No
8	BONE SPRING 2ND	-5803	9423	9423	SHALE, SANDSTONE, SI LTSTONE	NATURAL GAS, OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 12500

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 requirements. 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:

5M_Choke_Manifold_Diagram_20171019093052.pdf

BOP Diagram Attachment:

5m_BOP_Diagram_20171019093103.pdf