APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER		Permit Status: Approved
	The same of the same	
is Jacsimite 11-1 was generative etectronically from adm submitted to the AA. A certification of the automated data is available in the RRC's Austin office.	LETE, OK RE-ENTER mitted to the RRC. St Austin office.	
2. Operator's Name (as shown on form P-5, Organization Report) CIMAREX ENERGY CO.	3. Operator Address (include street, city, state, zip): ATTN GENEA HOLLOWAY	ret, city, state, zip): _OWAY
5. Well No. 2H	202 S CHEYENNE AVE STE TULSA, OK 74103-0000	AVE STE 1000 3000
Recompletion Reclass	Field Transfer	Re-Enter
L) (Also r	rom w-1D)	
	Directional (Also File Form W-1D)	Sidetrack
No 10. Is this well subject to Statewid		X Yes No
13. Surface Location	Bay/Estuary Inland Waterway	y Offshore
direction from	which is the nearest t	which is the nearest town in the county of the well site.
18. Abstract No. A-2795	19. Distance to nearest lease line: 20. 11 lease	20. Number of contiguous acres in lease, pooled unit, or unitized tract:
NORTH line and 1173	ft from the EAST	line.
NORTH line and 1173	ft from the EAST	line.
	☐ Yes	(attach Form W-1A)
ing Wildcat Trist on		· · · · · · · · · · · · · · · · · · ·
MOITANGE	31.	31. Distance to Nearest 32. Number of Wells on Well in this Reservoir this lease in this
SIRICI		Reservo
NOV 1 7 2017	-	0.00
NED .		
HORIZONTAL, AND AMENDED AS	DRILLED PERMIT APPLICATION	SF = (see W-IH attachment)
Remarks [FILER Mar 3, 2017 10:36 AM]: The SHL of this well will be located in Texas. There will be no perforated zones and no acreage will be allocated to this well in Texas. The well will be perforated and completed in New Mexico.	Certificate: I certify that information stated in this application is true and complete, to the best of my knowledge.	ate: pplication is true and complete, to the
	Sheli Armstrong, Regulatory Analyst	y Analyst Mar 03, 2017 Date submitted
Nov 17, 2017 2:36 PM(Current Version)	(918)5607275 Phone E-mail	sarmstrong@cimarex.com E-mail Address (OPTIONAL)
3. Total Depth 4. T	Land Orla Orla 1173 1173 1173 Orla 29. Well Type Oil or Gas We	Substandar as Well

07/2004

RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION

Form W-1H

The RRC has not approved this application.

Duplication or distribution of information is at the user's own risk.

Approved

Permit Status:

APPLICATION FOR PERMIT TO DRILL, RECOMPLETE, OR RE-ENTER

This facsimile W-1 was generated electronically from data submitted to the RRC. A certification of the automated data is available in the RRC's Austin office.

Supplemental Horizontal Well Information

[TER] Permit # 824054

Approved Date: Mar 16, 2017

153438 5. Field as shown on Form W-1 6. Section 7. Block		1. KRC Operator No. 2. Operator's Name (exactly as snown on form P-3, Organization Keport) 153438 CIMAREX ENERGY CO. 15. Field as shown on Form W-1 WILDCAT (Field # 00018001, RRC District 08) 5. Section 7. Block 8. Survey 8. Survey 8. Survey 9. Survey 9. Survey 1. Block 1.	ation Report)		3. Lease Name MEDWICK 32 FEDERAL COM 9. Abs	DERAL COM	4. Well No. 2H	
eg	1. Terminus Lease Line Perpendiculars 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	T&P RR CO	line, and	1477	ft. from the	2795 East	CULBERSON	
Sur	12. Terminus Survey Line Perpendiculars	North	line. and	1477	1477 ft. from the	East	line	
ion P	 Penetration Point Lease Line Perpendiculars f. from the 	lars North	line. and	1173	1173 ft. from the	East	eu <u>i</u>	:

Railroad Commission of Texas

PERMIT TO DRILL, RE-COMPLETE, OR RE-ENTER ON REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

CONDITIONS AND INSTRUCTIONS

Permit Invalidation. It is the operator's responsibility to make sure that the permitted location complies with Commission density and spacing rules in effect on the spud date. The permit becomes invalid automatically if, because of a field rule change or the drilling of another well, the stated location is not in compliance with Commission field rules on the spud date. If this occurs, application for an exception to Statewide Rules 37 and 38 must be made and a special permit granted prior to spudding. Failure to do so may result in an allowable not being assigned and/or enforcement procedures being initiated.

Notice Requirements. Per H.B 630, signed May 8, 2007, the operator is required to provide notice to the surface owner no later than the 15th business day after the Commission issues a permit to drill. Please refer to subchapter Q Sec. 91.751-91.755 of the Texas Natural Resources Code for applicability.

Permit expiration. This permit expires two (2) years from the date of issuance shown on the original permit. The permit period will not be extended.

Drilling Permit Number. The drilling permit number shown on the permit MUST be given as a reference with any notification to the district (see below), correspondence, or application concerning this permit.

Rule 37 Exception Permits. This Statewide Rule 37 exception permit is granted under either provision Rule 37 (h)(2)(A) or 37(h)(2)(B). Be advised that a permit granted under Rule 37(h)(2)(A), notice of application, is subject to the General Rules of Practice and Procedures and if a protest is received under Section 1.3, "Filing of Documents," and/or Section 1.4, "Computation of Time," the permit may be deemed invalid.

Before Drilling

Fresh Water Sand Protection. The operator must set and cement sufficient surface casing to protect all usable-quality water, as defined by the Railroad Commission of Texas (RRC) Groundwater Advisory Unit (GWAU). Before drilling a well, the operator must obtain a letter from the Railroad Commission of Texas stating the depth to which water needs protection, Write: Railroad Commission of Texas, Groundwater Advisory Unit (GWAU), P.O. Box 12967, Austin, TX 78711-3087. File a copy of the letter with the appropriate district office.

Accessing the Well Site. If an OPERATOR, well equipment TRANSPORTER or WELL service provider must access the well site from a roadway on the state highway system (Interstate, U.S. Highway, State Highway, Farm-to-Market Road, Ranch-to-Market Road, etc.), an access permit is required from TxDOT. Permit applications are submitted to the respective TxDOT Area Office serving the county where the well is located.

Water Transport to Well Site. If an operator intends to transport water to the well site through a temporary pipeline laid above ground on the state's right-of-way, an additional TxDOT permit is required. Permit applications are submitted to the respective TxDOT Area Office serving the county where the well is located.

*NOTIFICATION

The operator is **REQUIRED** to notify the district office when setting surface casing, intermediate casing, and production casing, or when plugging a dry hole. The district office **MUST** also be notified if the operator intends to re-enter a plugged well or re-complete a well into a different regulatory field. Time requirements are given below. The drilling permit number **MUST** be given with such notifications.

During Drilling

Permit at Drilling Site. A copy of the Form W-1 Drilling Permit Application, the location plat, a copy of Statewide Rule 13 alternate surface casing setting depth approval from the district office, if applicable, and this drilling permit must be kept at the permitted well site throughout drilling operations.

*Notification of Setting Casing. The operator MUST call in notification to the appropriate district office (phone number shown the on permit) a minimum of eight (8) hours prior to the setting of surface casing, intermediate casing, AND production casing. The individual giving notification MUST be able to advise the district office of the drilling permit number.

*Notification of Re-completion/Re-entry. The operator MUST call in notification to the appropriate district office (phone number shown on permit) a minimum of eight (8) hours prior to the initiation of drilling or re-completion operations. The individual giving notification MUST be able to advise the district office of the drilling permit number.

Completion and Plugging Reports

Hydraulic Fracture Stimulation using Diesel Fuel: Most operators in Texas do not use diesel fuel in hydraulic fracturing fluids. Section 322 of the Energy Policy Act of 2005 amended the Underground Injection Control (UIC) portion of the federal Safe Drinking Water Act (42 USC 300h(d)) to define "underground Injection" to EXCLUDE" ...the underground injection of fluids or propping agents (other than diesel fluels) pursuant to hydraulic fracturing operations related to oil, gas, or geothermal production activities." (italic and underlining added.) Therefore, hydraulic fracturing may be subject to regulation under the federal UIC regulations if diesel fuel is injected or used as a propping agent. EPA defined "diesel fuel" using the following five (5) Chemical Abstract Service numbers: 68334-30-5 Primary Name: Fuels, diesel; 68476-34-6 Primary Name: Fuels, diesel, No. 2; 68476-30-2 Primary Name: Fuel oil No. 2; 68476-31-3 Primary Nmae: Fuel oil, No. 4; and 8008-20-6 Primary Name: Kerosene. As a result, an injection well permit would be required before performing hydraulic fracture stimulation using diesel fuel as defined by EPA on any well in Texas. Hydraulic fracture stimulation using diesel fuel as defined by EPA on a well in Texas without an injection well permit could result in enforcement action.

Producing Well. Statewide Rule 16 states that the operator of a well shall file with the Commission the appropriate completion report within thirty (30) days after completion of the well or within ninety (90) days after the date on which the drilling operation is completed, whichever is earlier. Completion of the well in a field authorized by this permit voids the permit for all other fields included in the permit unless the operator indicates on the initial completion report that the well is to be a dual or multiple completion and promptly submits an application for multiple completion. All zones are required to be completed before the expiration date on the existing permit. Statewide Rule 40(d) requires that upon successful completion of a well in the same reservoir as any other well previously assigned the same acreage, proration plats and P-15s (if required) must be submitted with no double assignment of acreage.

Dry or Noncommercial Hole. Statewide Rule 14(b)(2) prohibits suspension of operations on each dry or non-commercial well without plugging unless the hole is cased and the casing is cemented in compliance with Commission rules. If properly cased, Statewide Rule 14(b)(2) requires that plugging operations must begin within a period of one (1) year after drilling or operations have ceased. Plugging operations must proceed with due diligence until completed. An extension to the one-year plugging requirement may be granted under the provisions stated in Statewide Rule 14(b)(2).

Intention to Plug. The operator must file a Form W-3A (Notice of Intention to Plug and Abandon) with the district office at least five (5) days prior to beginning plugging operations. If, however, a drilling rig is already at work on location and ready to begin plugging operations, the district director or the director's delegate may waive this requirement upon request, and verbally approve the proposed plugging procedures.

*Notification of Plugging a Dry Hole. The operator MUST call in notification to the appropriate district office (phone number shown on permit) a minimum of four (4) hours prior to beginning plugging operations. The individual giving the notification MUST be able to advise the district office of the drilling permit number and all water protection depths for that location as stated in the Texas Commission on Environmental Quality letter.

DIRECT INQUIRIES TO: DRILLING PERMIT SECTION, OIL AND GAS DIVISION

PHONE (512) 463-6751

MAIL: PO Box 12967 Austin, Texas, 78711-2967

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER	324054	DATE PERMIT ISSUED OR AMENDED Mar 16, 2017	DISTRICT	r * 0	8	!
API NUMBER	42-109-33082	FORM W-I RECEIVED Mar 03, 2017	COUNTY	CULBEI	RSON	
TYPE OF OPERATI	ON W DRILL	WELLBORE PROFILE(S) Horizontal	ACRES	1		
ATTN GENE	ENERGY CO. EA HOLLOWAY 'ENNE AVE STE 10 74103-0000	153 438	revoked i		vable assigned mace(s) submitted to not honored. elephone No:	
LEASE NAME		FEDERAL COM	WELL NU	JMBER	2H	
LOCATION	21.6 miles NW di	rection from ORLA	TOTAL D	ЕРТН	10222	
Section, Block and/or SECTION	•	BLOCK ₹ 60 T1S ABSTR	act ∢ 27 9	95		
DISTANCE TO SUR	VEY LINES 1109 ft. NORTH	1 1173 ft. EAST	DISTANC	E TO NEARE	ST LEASE LINE ft.	3
DISTANCE TO LEAS	SE LINES 1109 ft. NORT	H 1173 ft. EAST	DISTANC		ST WELL ON LI .D(s) Below	EASE
FIELD(s) and LIMIT		EE FIELD DISTRICT FOR REPORTING	PURPOS	ES *		
FIELD NAME LEASE NAME			ACRES NEAREST L	DEPTH EASE	WELL# NEAREST WE	DIST
WILDCAT	K 32 FEDERAL C	OM	1.00	10,222	2H 0	08
WELLBORE PRO	FILE(s) FOR FIELD:	Horizontal				
RESTRICTIONS:	isolated and te Fields with SWR	gen sulfide field. Hydrogen Sulfide F sted per State Wide Rule 36 and a For 10 authority to downhole commingle m ior to commingling production.	m H-9 file	d with the	district off:	ice.
	Lateral: TH1 Penetration Poi Lease Lines: Terminus Locati Lease Lines: Survey Lines:	1.0 F NORTH L 1173.0 F EAST L on 1.0 F NORTH L 1477.0 F EAST L				

THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS

RAILROAD COMMISSION OF TEXAS

OIL & GAS DIVISION

PERMIT TO DRILL, DEEPEN, PLUG BACK, OR RE-ENTER ON A REGULAR OR ADMINISTRATIVE EXCEPTION LOCATION

PERMIT NUMBER 824054	DATE PERMIT ISSUED OR AMENDED Mar 16, 2017	DISTRICT * 08	
API NUMBER 42-109-33082	FORM W-1 RECEIVED Mar 03, 2017	COUNTY	
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 1	
OPERATOR CIMAREX ENERGY CO. ATTN GENEA HOLLOWAY 202 S CHEYENNE AVE STE 10 TULSA, OK 74103-0000	15343	NOTICE This permit and any allowable assigned may be revoked if payment for fee(s) submitted to the Commission is not honored. District Office Telephone No: (432) 684-5581	
LEASE NAME MEDWICK 32	WELL NUMBER 2H		
LOCATION 21.6 miles NW d	TOTAL DEPTH 10222		
Section, Block and/or Survey SECTION 1 SURVEY T&P RR CO	tract ∢ 2795		
DISTANCE TO SURVEY LINES 1109 ft. NORTH	DISTANCE TO NEAREST LEASE LINE 1 ft.		
DISTANCE TO LEASE LINES 1109 ft. NORT	H 1173 ft. EAST	DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below	
FIELD(s) and LIMITATIONS.			

FIELD(s) and LIMITATIONS:

* SEE FIELD DISTRICT FOR REPORTING PURPOSES *

FIELD NAME LEASE NAME ACRES DEPTH NEAREST LEASE WELL# NEAREST WE

DIST

This well shall be completed and produced in compliance with applicable special field or statewide spacing and density rules. If this well is to be used for brine mining, underground storage of liquid hydrocarbons in salt formations, or underground storage of gas in salt formations, a permit for that specific purpose must be obtained from Environmental Services prior to construction, including drilling, of the well in accordance with Statewide Rules 81, 95, and 97.

This well must comply to the new SWR 3.13 requirements concerning the isolation of any potential flow zones and zones with corrosive formation fluids. See approved permit for those formations that have been identified for the county in which you are drilling the well in.

RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION

SWR #13 Formation Data

CULBERSON (109) County

Formation	Shallow Top	Deep Top	Remarks	Geological Order	Effective Date
RUSTLER	450	450		1	12/17/2013
FORD-DELAWAR E	2,500	2,500		2	12/17/2013
DELAWARE	2,600	3,400		3	12/17/2013
CHERRY CANYON	3,600	5,400		4	12/17/2013
BONE SPRINGS	6,150	6,150		5	12/17/2013
MISSISSIPPIAN	8,900	8,900		6	12/17/2013
WOLFCAMP	7,900	9,100		7	12/17/2013
ATOKA	11,600	11,600		8	12/17/2013
MORROW	11,800	11,800		9	12/17/2013
STRAWN	5,750	12,800		10	12/17/2013
SILURIAN	15,400	15,400		11	12/17/2013

The above list may not be all inclusive, and may also include formations that do not intersect all wellbores. Formation "TOP" information listed reflects an estimated range based on geologic variances across the county. To clarify, the "Deep Top" is not the bottom of the formation; it is the deepest depth at which the "TOP" of the formation has been or might be encountered. This is a dynamic list subject to updates and revisions. It is the operator's responsibility to make sure that at the time of spudding the well the most current list is being referenced. Refer to the RRC website at the following address for the most recent information. http://www.rrc.texas.gov/oil-gas/compliance-enforcement/rule-13-geologic-formation-info

RAILROAD COMMISSION OF TEXAS OIL & GAS DIVISION

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BONE SPRINGS	6,150	6,150		5	12/17/2013
MISSISSIPPIAN	8,900	8,900		6	12/17/2013
WOLFCAMP	7,900	9,100		7	12/17/2013
ATOKA	11,600	11,600		8	12/17/2013
MORROW	11,800	11,800		9	12/17/2013
STRAWN	5,750	12,800		10	12/17/2013
SILURIAN	15,400	15,400		11	12/17/2013

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