

**RAILROAD COMMISSION OF TEXAS
OIL & GAS DIVISION**

30-015-45063

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

PERMIT NUMBER 824087	DATE PERMIT ISSUED OR AMENDED Mar 16, 2017	DISTRICT * 08
API NUMBER 42-109-33086	FORM W-1 RECEIVED Mar 06, 2017	COUNTY CULBERSON
TYPE OF OPERATION NEW DRILL	WELLBORE PROFILE(S) Horizontal	ACRES 223.16
OPERATOR CIMAREX ENERGY CO. ATTN GENE HOLLOWAY 202 S CHEYENNE AVE STE 1000 TULSA, OK 74103-0000		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 FEDERAL COM		WELL NUMBER 6H
LOCATION 21.5 miles NW direction from ORLA		TOTAL DEPTH 10450
Section, Block and/or Survey SECTION ◀ 1 BLOCK ◀ 60 ABSTRACT ◀ 2795 SURVEY ◀ T&P RR CO		
DISTANCE TO SURVEY LINES 441 ft. NORTH 405 ft. EAST		DISTANCE TO NEAREST LEASE LINE 1 ft.
DISTANCE TO LEASE LINES 441 ft. NORTH 405 ft. EAST		DISTANCE TO NEAREST WELL ON LEASE See FIELD(s) Below
FIELD(s) and LIMITATIONS: <p align="center">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</p>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
WELL # NEAREST WE		
<p>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.</p> <p>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.</p>		

**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-DELAWARE	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>



ONLINE SYSTEM

Oil & Gas Data Query

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Form W-1

[Return](#)

To Print Directional or Horizontal Wellbore Information use (View W-1D or W-1H) links.

Status #: 824087 - 99

API #: 109-33086

Operator: 153438 - CIMAREX ENERGY CO.

Issued: 03/16/2017, **Filed:** Online

Lease Name: MEDWICK 32 FEDERAL COM

Well #: 6H, **District:** 08, **County:** CULBERSON

Filing Purpose: New Drill

Wellbore Profiles:
Horizontal

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. (03/03/2017 11:05:17 AM)

Status: Approved



[View Current W-1](#)



[View Current W-1H](#)



[View Current Permit](#)



[View SWR 13 Formations](#)

General / Location Information

Basic Information:

Filing Purpose	Wellbore Profiles	Lease Name	Well #	SWR	Total Depth	Horizontal Wellbore	Stacked Lateral Parent Well DP #
New Drill	Horizontal	MEDWICK 32 FEDERAL COM	6H	SWR 36	10450		

Surface Location Information:

API #	Distance from Nearest Town	Direction from Nearest Town	Nearest Town	Surface Location Type
109-33086	21.5 miles	NW	Orla	Land

GPS Coordinates - Datum: NAD 27

Latitude Degrees: 31 **Latitude Minutes:** 59 **Latitude Seconds:** 55.32

Longitude Degrees: -104 **Longitude Minutes:** 12 **Longitude Seconds:** 49.37

Survey/Legal Location Information:

Section	Block	Survey	Abstract #	County
1	60	T&P RR CO	2795	CULBERSON

Township	League	Labor	Porcion	Share	Tract	Lot
1						

Perpendicular surface location from two nearest designated lines:

Perpendiculars	Distance	Direction	Distance	Direction
Survey Perpendiculars	441.0 feet	NORTH	405.0 feet	EAST

Permit Restrictions:

Code	Description
29	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.

Fields

District	Field Name	Field #	Completion Depth	Lease Name	Well #	Well Type	Acres	Distance to nearest well	Distance to nearest Lease Line	SWR	Off-lease Surface Location	Off-lease Penetration Point	Pooled/Unitized
08	WILDCAT Primary Field	00018001	10450	MEDWICK 32 FEDERAL COM	6H	Oil or Gas Well	223.16	0.0 feet	1.0 feet	SWR 36	Y	N	N

Perpendiculars	Distance	Direction	Distance	Direction
Surface Survey Lines	441.0 feet	NORTH	405.0 feet	EAST

Section: 1		Block: 60		Survey: T&P RR CO	
Abstract #: 2795		County: CULBERSON			
Name	Profile	Distance	Direction	Distance	Direction
TH1	Terminus Point	Lease	1.0 feet	from the NORTH line and	344.0 feet from the EAST line
		Survey	1.0 feet	from the NORTH line and	344.0 feet from the EAST line
	Penetration Point	Lease	1.0 feet	from the NORTH line and	344.0 feet from the EAST line

Field Restrictions:

Code	Description
02	This is a hydrogen sulfide field. This well shall be drilled in accordance with SWR 36.

Comments

Remark	Date Entered	Entered By
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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.

03/03/2017 11:05:17 AM FILER

Attachments

Attachment Type	File Path	Associated Fields and/or Plats
PLAT #1 (Paper Size: LTR)	Plat - TX - Medwick 32 Fed Com #6H.tif	WILDCAT
P-16	P-16 - Medwick 32 Fed Com #6H.tif	
As Submitted W-1	AsSubmittedW1-3-6-2017.pdf	
As Approved W-1	AsApprovedW1-3-16-2017.pdf	
As Approved Permit	AsApprovedPermit-3-16-2017.pdf	

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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 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 fuels*) 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 Name: 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

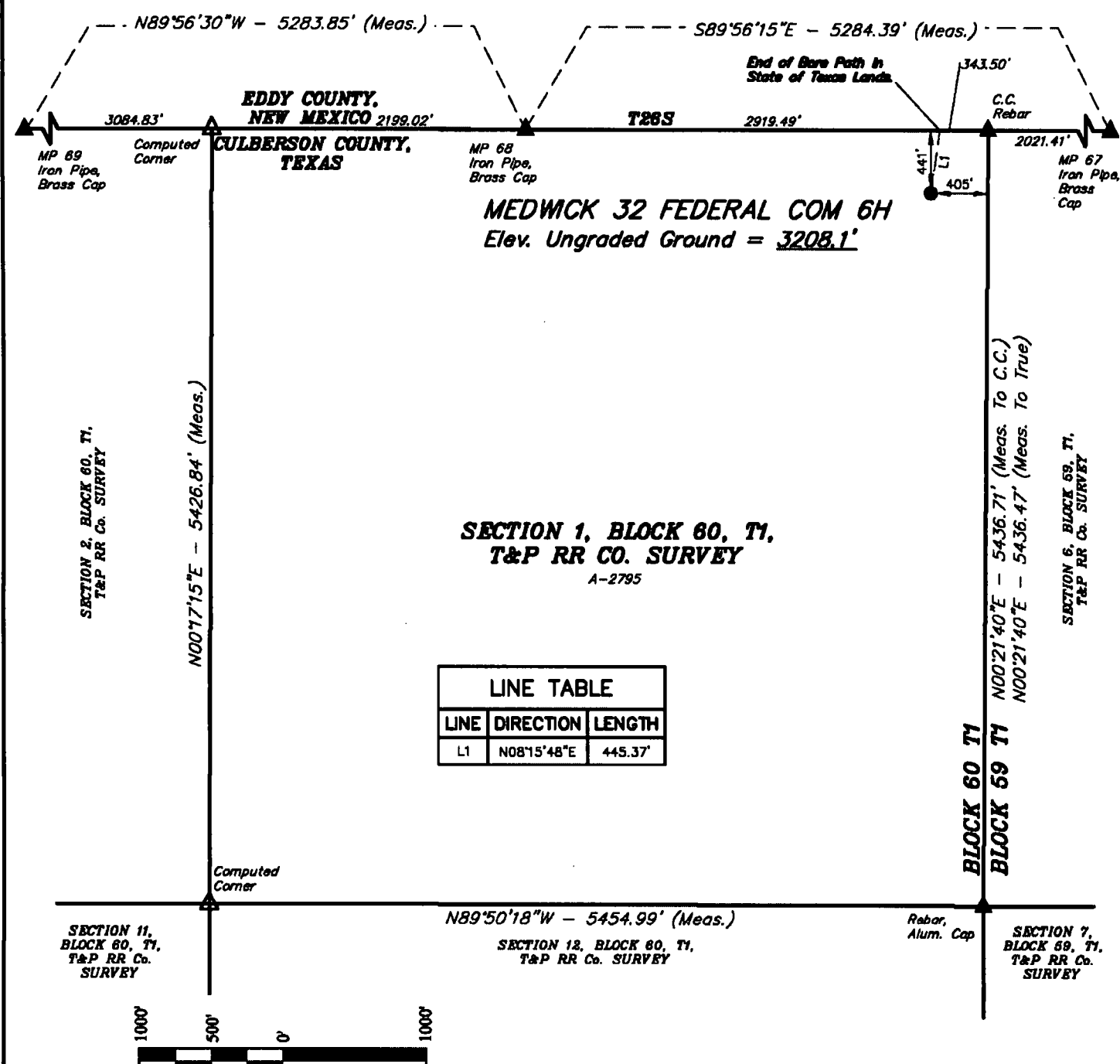
PERMIT NUMBER <div style="text-align: center;">824087</div>	DATE PERMIT ISSUED OR AMENDED <div style="text-align: center;">Mar 16, 2017</div>	DISTRICT <div style="text-align: center;">* 08</div>
API NUMBER <div style="text-align: center;">42-109-33086</div>	FORM W-1 RECEIVED <div style="text-align: center;">Mar 06, 2017</div>	COUNTY <div style="text-align: center;">CULBERSON</div>
TYPE OF OPERATION <div style="text-align: center;">NEW DRILL</div>	WELLBORE PROFILE(S) <div style="text-align: center;">Horizontal</div>	ACRES <div style="text-align: center;">223.16</div>
OPERATOR <div style="text-align: right;">153438</div> CIMAREX ENERGY CO. ATTN GENE HOLLOWAY 202 S CHEYENNE AVE STE 1000 TULSA, OK 74103-0000		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: <div style="text-align: center;">(432) 684-5581</div>
LEASE NAME <div style="text-align: center;">MEDWICK 32 FEDERAL COM</div>		WELL NUMBER <div style="text-align: center;">6H</div>
LOCATION <div style="text-align: center;">21.5 miles NW direction from ORLA</div>		TOTAL DEPTH <div style="text-align: center;">10450</div>
Section, Block and/or Survey <div style="display: flex; justify-content: space-between;"> <div>SECTION ◀ 1</div> <div>BLOCK ◀ 60</div> <div>ABSTRACT ◀ 2795</div> </div> SURVEY ◀ T&P RR CO		
DISTANCE TO SURVEY LINES <div style="text-align: center;">441 ft. NORTH 405 ft. EAST</div>		DISTANCE TO NEAREST LEASE LINE <div style="text-align: center;">1 ft.</div>
DISTANCE TO LEASE LINES <div style="text-align: center;">441 ft. NORTH 405 ft. EAST</div>		DISTANCE TO NEAREST WELL ON LEASE <div style="text-align: center;">See FIELD(s) Below</div>
FIELD(s) and LIMITATIONS: <div style="text-align: center;">* SEE FIELD DISTRICT FOR REPORTING PURPOSES *</div>		
FIELD NAME LEASE NAME	ACRES NEAREST LEASE	DEPTH NEAREST WE
WILDCAT MEDWICK 32 FEDERAL COM	<div style="text-align: center;">223.16</div> <div style="text-align: center;">1</div>	<div style="text-align: center;">10,450</div> <div style="text-align: center;">0</div>
WELLBORE PROFILE(s) FOR FIELD: Horizontal		
RESTRICTIONS: This is a hydrogen sulfide field. Hydrogen Sulfide Fields with perforations must be isolated and tested per State Wide Rule 36 and a Form H-9 filed with the district office. Fields with SWR 10 authority to downhole commingle must be isolated and tested individually prior to commingling production. Lateral: TH1 Penetration Point Location Lease Lines: 1.0 F NORTH L 344.0 F EAST L Terminus Location Lease Lines: 1.0 F NORTH L 344.0 F EAST L Survey Lines: 1.0 F NORTH L 344.0 F EAST L		
THE FOLLOWING RESTRICTIONS APPLY TO ALL FIELDS		

NAD 27 (SURFACE LOCATION)
LATITUDE = 31°59'35.32" (31.998700)
LONGITUDE = 104°12'49.37" (104.213714)
STATE PLANE NAD 27 (CENTRAL)
N: 869154.80 E: 797180.30

SURVEY,
A-2795

NAD 27 (POINT ON STATE LINE)
LATITUDE = 31°59'59.68" (31.999911)
LONGITUDE = 104°12'48.63" (104.213508)
STATE PLANE NAD 27 (CENTRAL)
N: 869593.00 E: 797259.56

SURVEY,
A-2795



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N08°15'48"E	445.37'

DRIVING DIRECTIONS

BEGINNING AT THE JUNCTION OF PECOS HIGHWAY AND WHITES CITY ROAD (LOCATED IN THE NW 1/4 OF SECTION 11, T28S, R28E, N.M.P.M.), PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 3.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 4.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 4.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 1.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE MEDWICK 32 FEDERAL COM 1H, 2H & 3H TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 1033' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 127' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM THE JUNCTION OF PECOS HIGHWAY AND WHITES CITY ROAD (LOCATED IN THE NW 1/4 SECTION 11, T28S, R28E, N.M.P.M.) TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 13.4 MILES.

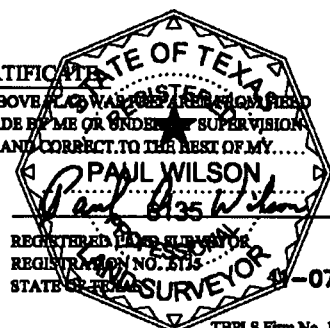
GEODESIC DISTANCE

SURFACE LOCATION IS APPROXIMATELY 17.7 MILES SOUTHWEST OF MALAGA, NEW MEXICO.

NOTES:

Distances referenced on plat to section lines and lease lines are perpendicular.

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM RECORDED NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Acreage Designation

SECTION I. OPERATOR INFORMATION	
Operator Name: Cimarex Energy Co.	Operator P-5 No.: 153438
Operator Address: 202 S. Cheyenne Ave., Suite 1000 Tulsa, OK 74103	

SECTION II. WELL INFORMATION		
District No.: 08	County: Culberson	Purpose of Filing: <input checked="" type="checkbox"/> Drilling Permit Application (Form W-1) <input type="checkbox"/> Completion Report (Form G-1/W-2)
Well No.: 6H	API No.:	
Total Lease Acres: 223.13	Drilling Permit No.:	
Lease Name: Medwick 32 Federal Com	Lease No.:	
Field Name: Wildcat	Field No.: 00018001	

Filer is the owner or lessee, or has been authorized by the owner or lessee, of all or an undivided portion of the mineral estate under each tract for which filer is listed as operator below. For all leases operated by other entities, the number of assigned acres shown are reflected on current Commission records or the filer has been authorized by the current operator to change the assigned acreage of that operator as shown below.

SECTION III. LISTING OF ALL WELLS IN THE APPLIED-FOR FIELD ON THE SAME ACREAGE AS THE LEASE, POOLED UNIT, OR UNITIZED TRACT DESIGNATED IN SECTION II ABOVE BY FILER							
RRC ID No. or Lease No.	Well No.	H-Horizontal D-Directional V-Vertical	Lease Name	API No.	Acres Assigned	SWR 38 Except. (Y/N)	Operator Name and Operator No. (If different from filing operator)
	6H	H	Medwick 32 Federal Com		0	N	
Total Well Count >	0	0	< A. Total Assigned Horiz. Acreage		0	< C. Total Assigned Acreage	
		0	< Total Remaining Horiz. Acreage		0	< Total Remaining Acreage	
		0	< B. Total Assigned Vert./Dir. Acreage				
		0	< Total Remaining Vert./Dir. Acreage				

SECTION IV. REMARKS / PURPOSE OF FILING (see instructions)

New Drill. 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.

Attach Additional Pages As Needed. ☐ No additional pages ☒ Additional Pages: 1 (No. of additional pages)

CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that this report was prepared by me or under my supervision or direction, that I am authorized to make this report, and that the information contained in this report is true, correct, and complete to the best of my knowledge.

Signature

Sheli Armstrong, Regulatory Analyst

Email (include email address only if you affirmatively consent to its public release)

202 S. Cheyenne Ave., Suite 1000

Tulsa, OK 74103

918-585-1100

3/3/17

Address

City. State. Zip Code

Tel: Area Code

Number

Date: mo. day yr.