Form 3160-3 (June 2015)		FORM APPR OMB No. 100 Expires: January	4-0137
UNITED STATES		Explices. Sandary	51, 2010
DEPARTMENT OF THE IN	5. Lease Serial No.		
BUREAU OF LAND MANA			
APPLICATION FOR PERMIT TO DE	6. If Indian, Allotee or Tri	be Name	
1a. Type of work:   DRILL	ENTER	7. If Unit or CA Agreeme	nt, Name and No.
1b. Type of Well:   Oil Well   Gas Well   Other	ner	8. Lease Name and Well N	No.
1c. Type of Completion: Hydraulic Fracturing Sin	gle Zone Multiple Zone		
2. Name of Operator		9. API Well No. 30-015-643	80
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exp	loratory
4. Location of Well (Report location clearly and in accordance w	ith any State requirements.*)	11. Sec., T. R. M. or Blk.	and Survey or Area
At surface			
At proposed prod. zone			
14. Distance in miles and direction from nearest town or post offic	e*	12. County or Parish	13. State
15. Distance from proposed*	16. No of acres in lease 17. Spac	ing Unit dedicated to this we	ell
location to nearest property or lease line, ft.			
(Also to nearest drig. unit line, if any)			
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 20, BLM	I/BIA Bond No. in file	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	
	24. Attachments		
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the	Hydraulic Fracturing rule pe	r 43 CFR 3162.3-3
1. Well plat certified by a registered surveyor.	4. Bond to cover the operatio	ns unless covered by an exist	ing bond on file (see
2. A Drilling Plan.	Item 20 above).		
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		ormation and/or plans as may l	be requested by the
25. Signature	Name (Printed/Typed)	Date	
Title			
Approved by (Signature)	Name (Printed/Typed)	Date	
Title	Office		
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights	s in the subject lease which w	vould entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, ma of the United States any false, fictitious or fraudulent statements o			partment or agency



\*(Instructions on page 2)

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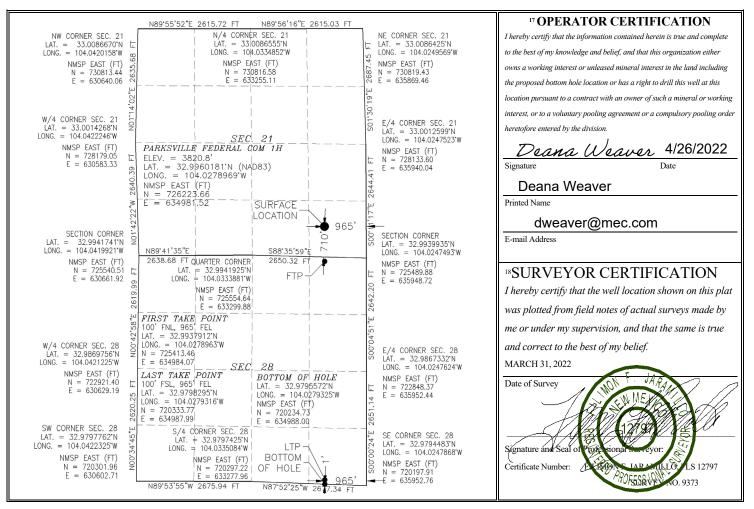
(Continued on page 2)

### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT										
<sup>1</sup> A	PI Number	r	<sup>2</sup> Pool Code <sup>3</sup> Pool Name								
30-00	)5-643	80	0 52770 Round Tank; San Andres								
<sup>4</sup> Property C 333748	ode				<sup>5</sup> Property	Name			6	Well Number	
333748				PAR	<b>RKSVILLE FH</b>	EDERAL COM				1H	
<sup>7</sup> OGRID N	lo.				<sup>8</sup> Operator	Name				<sup>9</sup> Elevation	
13837				MAC	K ENERGY (	CORPORATION				3825.8	
	<sup>10</sup> Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Р	21	15 S	29 E		710	SOUTH	965	EA	ST	CHAVES	
. <u> </u>			п ]	Bottom H	lole Location	If Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Р	28	15 S	29E		1 SOUTH 965 EAST CHAVES						
<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint	or Infill <sup>14</sup>	Consolidatio	n Code	<sup>15</sup> Order No.						
160											

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent XX As Drilled

Δ	Ы	Ħ

Operator Name:	Property Name:	Well Number
MACK ENERGY CORPORATION	PARKSVILLE FEDERAL COM	1H

#### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

### First Take Point (FTP)

UL A	Section 28	Township 15S	Range 29E	Lot	Feet 100	From N/S NORTH	Feet 965	From E/W EAST	County CHAVES
Latitu 32.9	<sup>de</sup> 93791	2			Longitude <b>104.0278</b>	3963			NAD 83

### Last Take Point (LTP)

UL P	Section 28	Township 15S	Range 29E	Lot	Feet 100	From N/S SOUTH	Feet 965	From E/W EAST	County LEA
Latitude				0	Longitude			NAD	
32.9798295				104.0	279316			83	

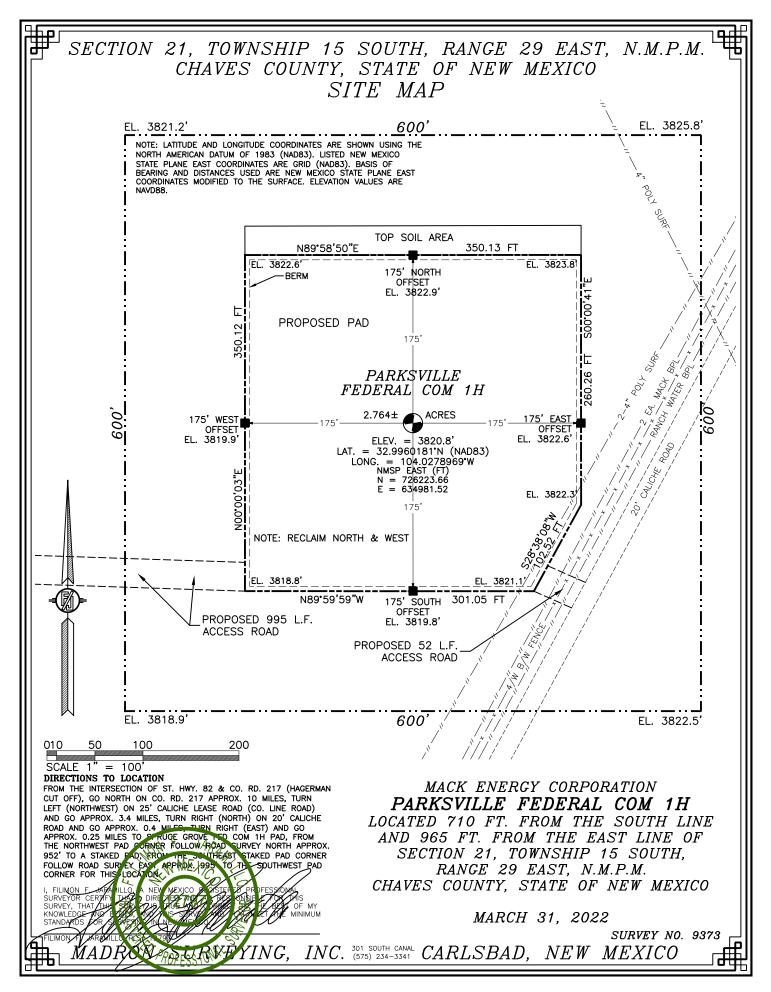
Is this well the defining well for the Horizontal Spacing Unit?

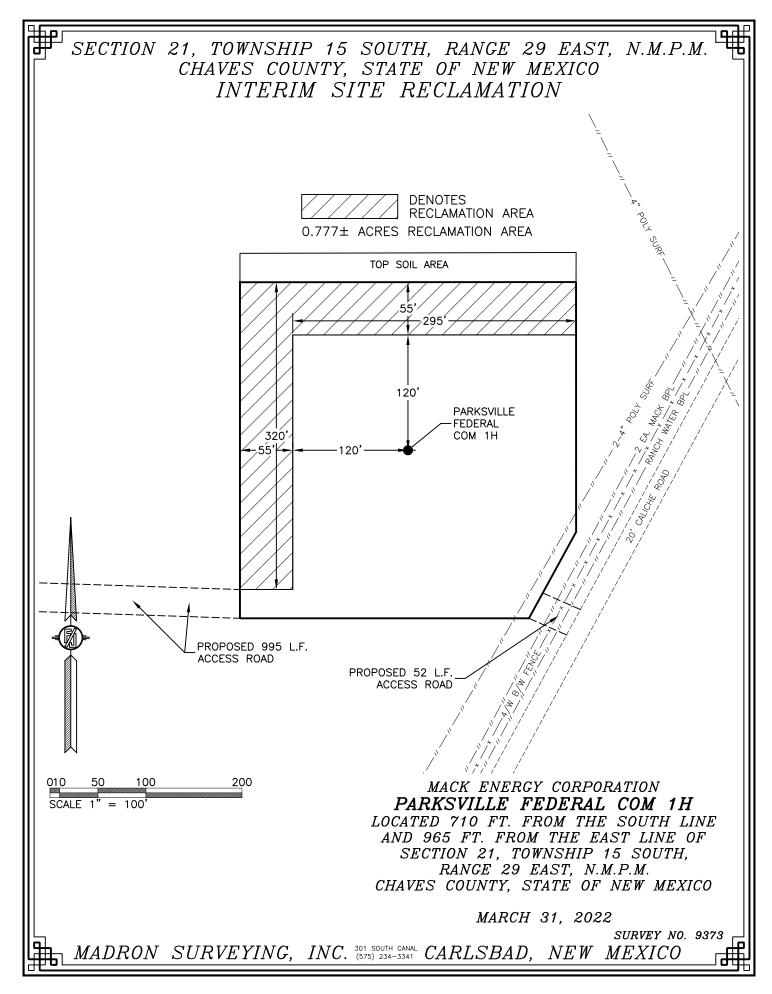
Is this well an infill well?

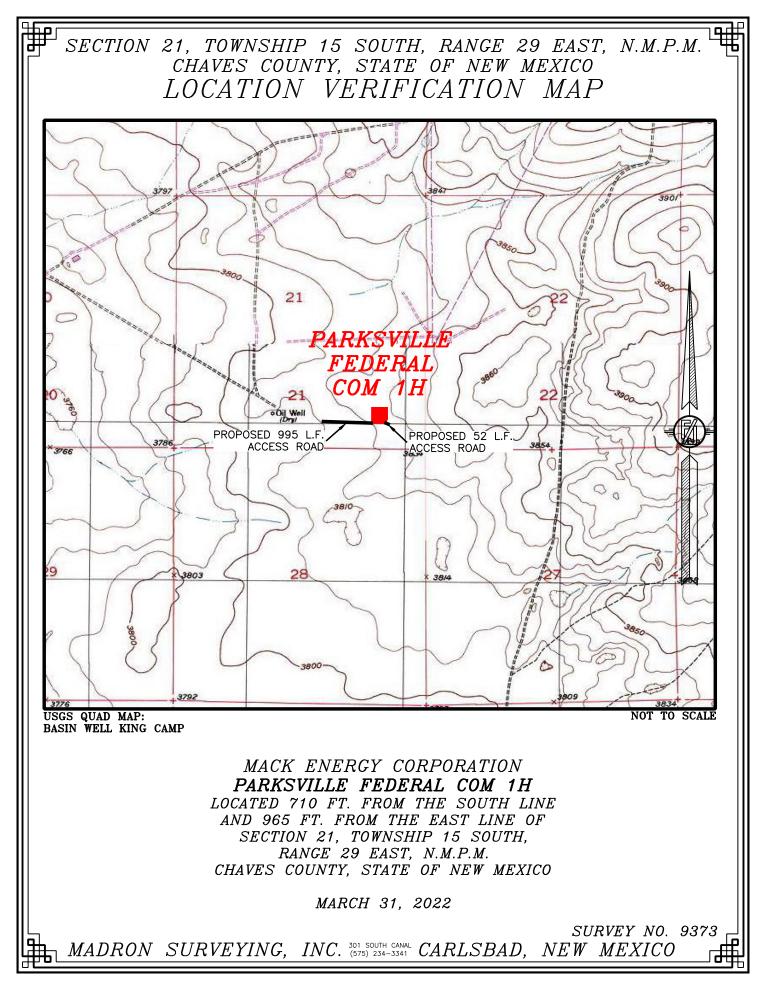
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

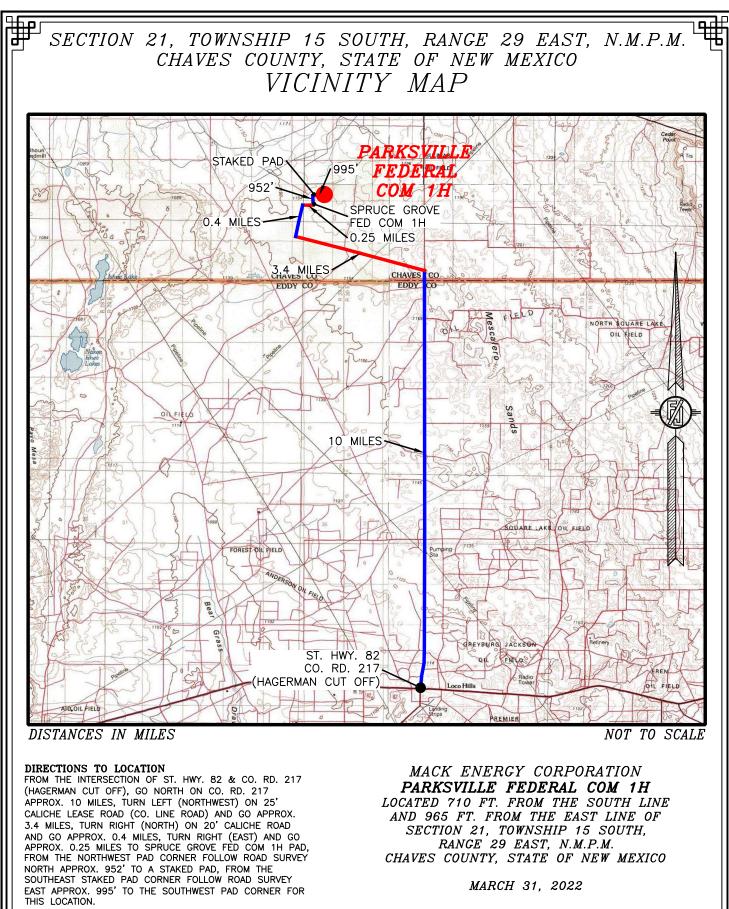
API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

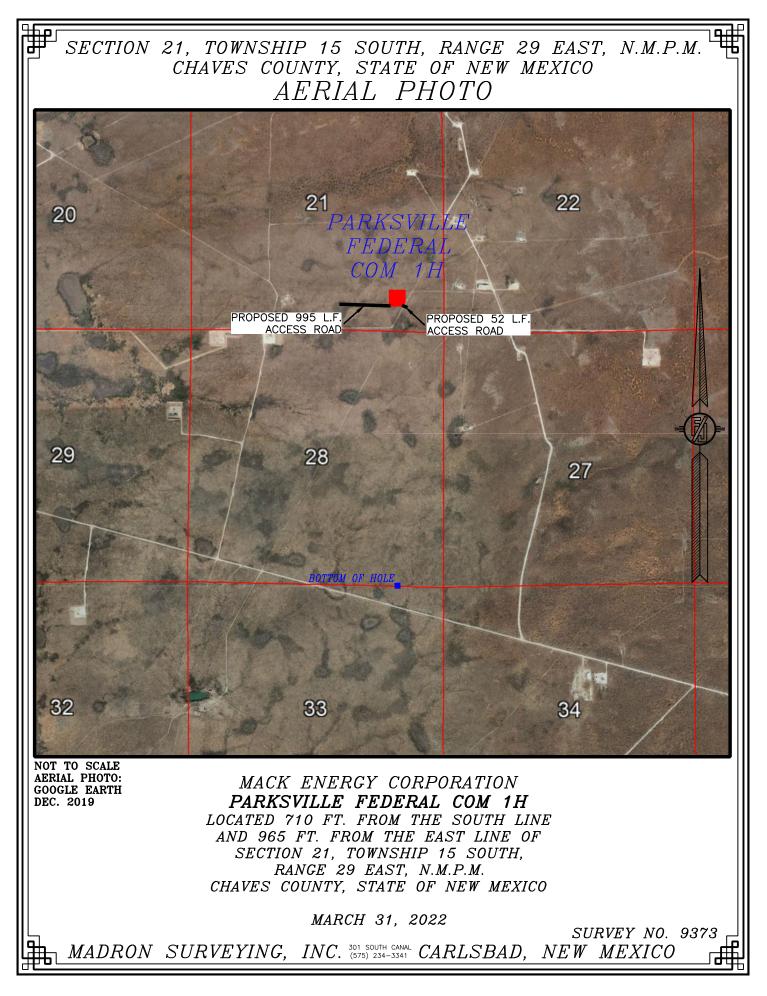


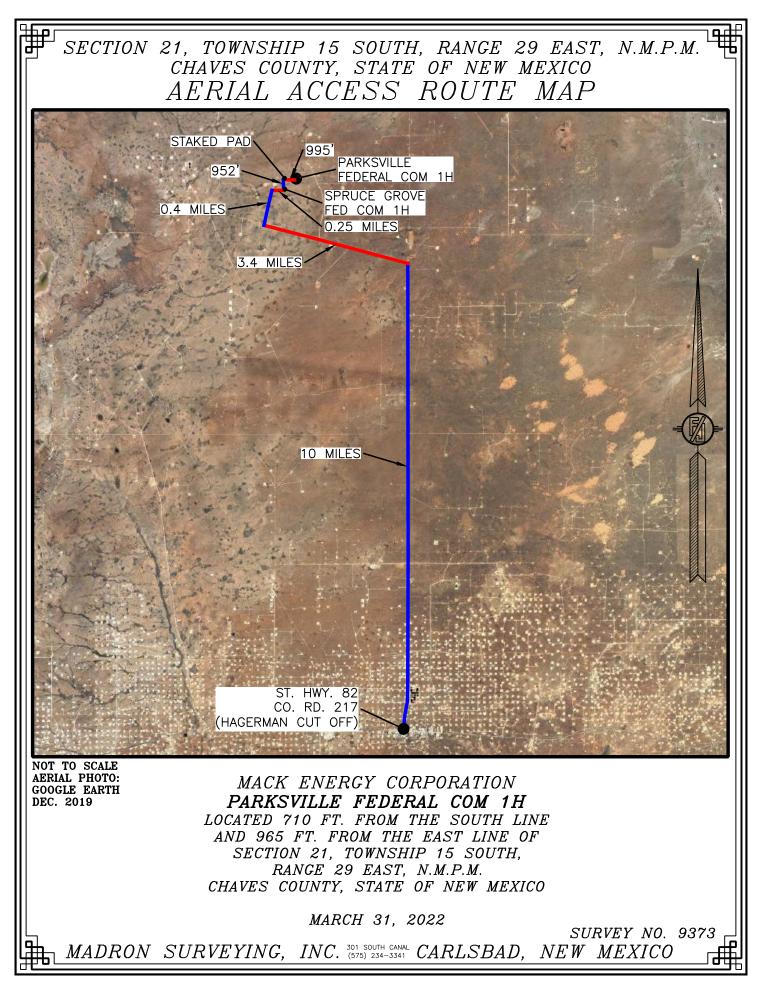


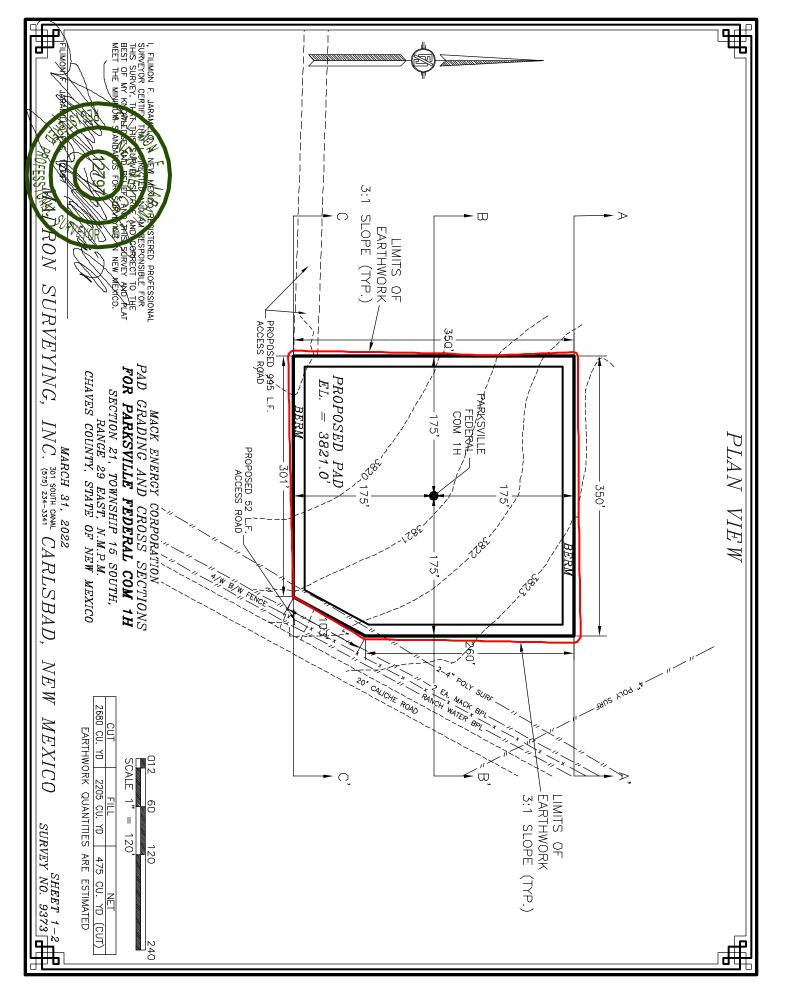


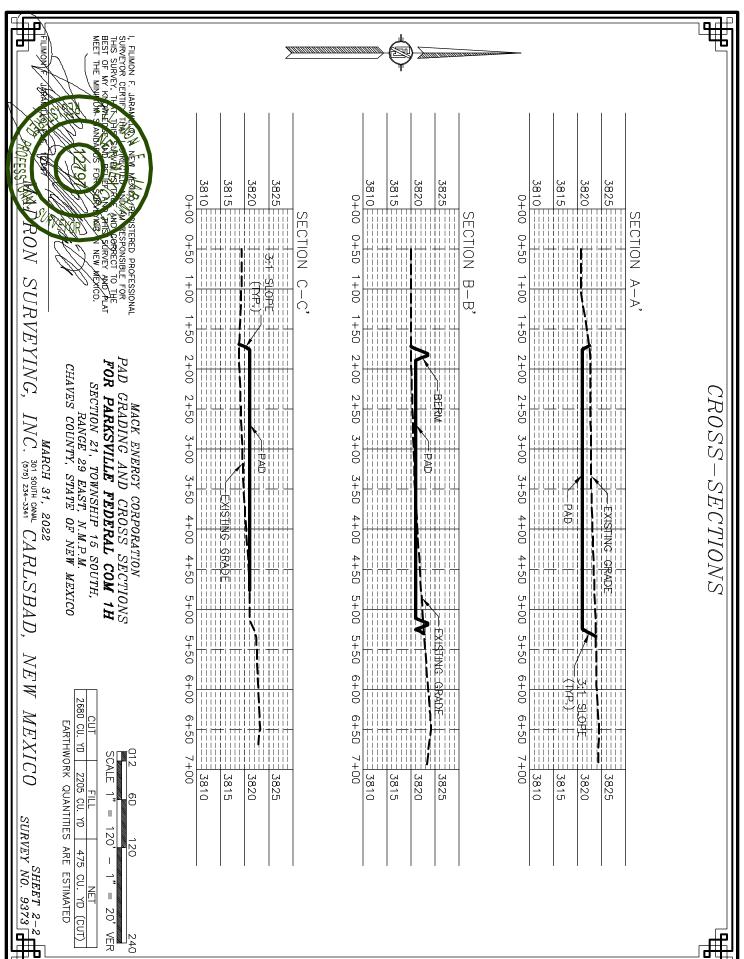


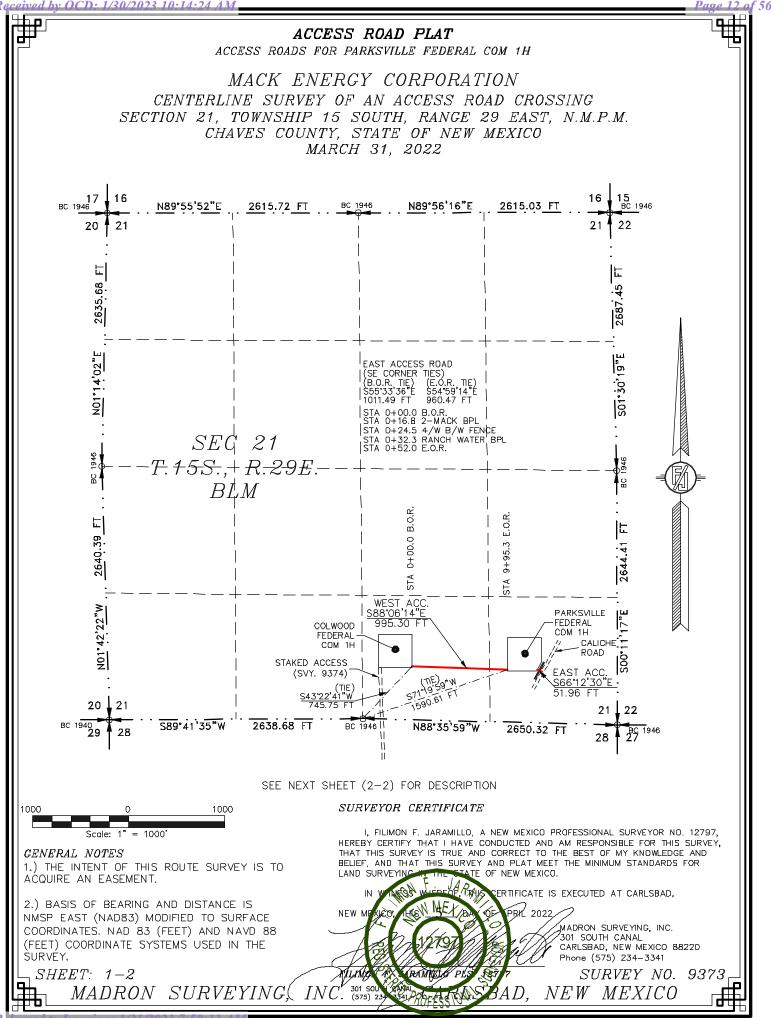
SURVEY NO. 9373 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO











### ACCESS ROAD PLAT

ACCESS ROADS FOR PARKSVILLE FEDERAL COM 1H

MACK ENERGY CORPORATION CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. CHAVES COUNTY, STATE OF NEW MEXICO MARCH 31, 2022

#### DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., CHAVES COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

WEST ACCESS

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S43'22'41"W, A DISTANCE OF 745.75 FEET; THENCE S88'06'14"E A DISTANCE OF 995.30 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S71'19'59"W, A DISTANCE OF 1590.61 FEET;

SAID STRIP OF LAND BEING 995.30 FEET OR 60.32 RODS IN LENGTH, CONTAINING 0.685 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 806.60 L.F. 48.89 RODS 0.556 ACRES SE/4 SE/4 188.70 L.F. 11.44 RODS 0.130 ACRES

EAST ACCESS

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S55\*33'36"E, A DISTANCE OF 1011.49 FEET; THENCE S66\*12'30"E A DISTANCE OF 51.96 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 15 SOUTH, RANGE 29 EAST, N.M.P.M. BEARS S54\*59'14"E, A DISTANCE OF 960.47 FEET;

SAID STRIP OF LAND BEING 51.96 FEET OR 3.15 RODS IN LENGTH, CONTAINING 0.036 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 51.96 L.F. 3.15 RODS 0.036 ACRES

#### SURVEYOR CERTIFICATE

<i>CENERAL NOTES</i> 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.	I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING THAT THE FATE OF NEW MEXICO.
2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.	IN WINESS WIFFER, TRUS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MIRION, THE 951 DAY OF TPBL 2022 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3341
SHEET: 2-2 MADRON SURVEYING	INC. (575) 239 141 AUF 15 15 17 SURVEY NO. 9373

Released to Imaging: 1/31/2023 7:58:13 AM

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	State of New Mexico Energy, Minerals and Natural Resources Department										
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505											
This Natural Gas Manag		<u>Section</u>		tion for Permit to E escription		PD) for a r	new or	recompleted well.			
I. Operator: <u>Mack I</u>	Energy Corpo	oration	OGRID:	013837		Date: _	4 /	26 / 2022			
II. Type: 🛛 Original	Amendment	due to □ 19.15.27.9	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) N	IMAC 🗆 C	Other.				
If Other, please describe	::										
<b>III. Well(s):</b> Provide the be recompleted from a s					vells pi	roposed to	be dri	lled or proposed to			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D	P	Anticipated roduced Water BBL/D			
Parksville Federal Com 1H		P Sec 21 T15S R29	9E 710 FSL 965 FEL	100	100		1,0	000			
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple Well Name	le: Provide the	following informat	ion for each nev	v or recompleted w	ell or s		propo	7.9(D)(1) NMAC] sed to be drilled or First Production Date			
Parksville Federal Com 1H		9/1/2022	9/20/2022	11/30/202	22	11/30/	/2022	12/1/2022			
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	tices: X Attac of 19.15.27.8 ] ht Practices: X	h a complete descri NMAC. Attach a complet	iption of the ac	tions Operator will	take t	to comply	with t	he requirements of			

### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  $\Box$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII.** Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  $\Box$  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### <u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 $\checkmark$  Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 $\Box$  Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:* 

**Well Shut-In.**  $\Box$  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  $\Box$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Deana Weaver
Printed Name: Deana Weaver
Title: Regulatory Technician II
E-mail Address: dweaver@mec.com
Date: 4/26/2022
Phone: 575-748-1288
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

### VI. Separation Equipment:

Mack Energy Corporation(MEC) production facilities include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool of our completion project. MEC will utilize flowback separation equipment and production separation equipment designed and built to industry specifications after the completion to optimize gas capture and send gas to sales or flare based on analytical composition. MEC operates facilities that are typically multi-well facilities. Production separation equipment is upgraded prior to new wells being completed, if determined to be undersized or inadequate. This equipment is already on-site and tied into our sales gas lines prior to the new drill operations.

VII. Operational Practices:

- Subsection (A) Venting and Flaring of Natural Gas. MEC understands the requirements of NMAC 19.15.27.8 which outlines that the venting and flaring of natural gas during drilling, completion or production operations that constitutes waste as defined in 19.15.2 are prohibited.
- 2. Subsection (B) Venting and Flaring during drilling operations. This gas capture plan isn't for a well being drilled.
- 3. Subsection (C) Venting and flaring during completion or recompletion. Flowlines will be routed for flowback fluids into a completion or storage tank and if feasible under well conditions, flare rather than vent and commence operation of a separator as soon as it is technically feasible for a separator to function.
  - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
- 4. Subsection (D) Venting and flaring during production operations o At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.
  - Monitor manual liquid unloading for wells on-site or in close proximity (<30 minutes' drive time), take reasonable actions to achieve a stabilized rate and pressure at the earliest practical time, and take reasonable actions to minimize venting to the maximum extent practicable.
  - MEC will not vent or flare except during the approved activities listed in NMAC 19.15.27.8 (D) 14.
- 5. Subsection (E) Performance standards  $\circ$  All tanks and separation equipment are designed for maximum throughput and pressure to minimize waste.
  - If a flare is utilized during production operations it will have a continuous pilot and is located more than 100 feet from any known well or storage tanks.
  - At any point in the well life (completion, production, inactive) an audio, visual and olfactory inspection be performed at prescribed intervals (weekly or monthly) pursuant to Subsection D of 19.15.27.8 NMAC, to confirm that all production equipment is operating properly and there are no leaks or releases.

- 6. Subsection (F) Measurement or estimation of vented and flared natural gas  $\circ$  Measurement equipment is installed to measure the volume of natural gas flared from process piping.
  - When measurement isn't practicable, estimation of vented and flared natural gas will be completed as noted in 19.15.27.8 (F) 5-6.

VIII. Best Management Practices:

- 1. MEC has adequate storage and takeaway capacity for wells it chooses to complete as the flowlines at the sites are already in place and tied into a gathering system.
- 2. MEC will flare rather than vent vessel blowdown gas when technically feasible during active and/or planned maintenance to equipment on-site.
- 3. MEC combusts natural gas that would otherwise be vented or flared, when technically feasible.
- 4. MEC will shut in wells in the event of a takeaway disruption, emergency situation, or other operations where venting or flaring may occur due to equipment failures.
- 5. MEC has a gas gathering system in place(CTB-887)a with multiple purchaser's to limit venting or flaring, due to purchaser shut downs.



Drilling Plan Data Report 01/30/2023 U.S. Department of the Interior BUREAU OF LAND MANAGEMENT APD ID: 10400084786 Submission Date: 05/09/2022 Highlighted data reflects the most **Operator Name: MACK ENERGY CORPORATION** recent changes Well Name: PARKSVILLE FEDERAL COM Well Number: 1H Show Final Text Well Type: OIL WELL Well Work Type: Drill

### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8514011	RUSTLER	3825	185	185	ANHYDRITE	NONE	N
8514012	TOP OF SALT	3540	285	285	SALT	NONE	N
8514013	BASE OF SALT	2972	853	853	SALT	NONE	N
8514014	YATES	2830	995	995	SILTSTONE	NATURAL GAS, OIL	N
8514015	SEVEN RIVERS	2587	1238	1238	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8514016	QUEEN	2095	1730	1730	SILTSTONE	NATURAL GAS, OIL	N
8514017	GRAYBURG	1690	2135	2135	DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
8514018	SAN ANDRES	1379	2446	2446	DOLOMITE	NATURAL GAS, OIL	Y

### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 3M

Rating Depth: 9072

Equipment: Rotating Head, Mud-Gas Separator

**Requesting Variance? NO** 

Variance request:

Testing Procedure: The BOP/BOPE test shall include a low pressure test for 250 to 300psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1588psig (0.052\*3321'TVD\*9.2ppg) less than 2900 bottom hole pressure. Will test to 2000psi for 30 minutes.

### **Choke Diagram Attachment:**

choke\_manifold\_diagram\_20220426092123.pdf

choke\_manifold\_20220426092129.pdf

#### **BOP Diagram Attachment:**

bop\_diagram\_20220426092135.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: PARKSVILLE FEDERAL COM

Well Number: 1H

choke\_manifold\_diagram\_20220426092123.pdf choke\_manifold\_20220426092129.pdf

bop\_diagram\_20220426092135.pdf

### **Section 3 - Casing**

	1									1					<u> </u>		_	-			I	<b></b>
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	Ν	0	250	0	250	3825	3575	250	J-55	48	ST&C	5.9	2 3.42	BUOY		BUOY	3.46
																	9	4		53		
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	1200	0	1200	3825	2625	1200	J-55	36	ST&C	3.3 2	7 6.70 5	BUOY	10.6 91	BUOY	7.04
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	2500	0	2500	3825	1325	2500	HCP -110	26	LT&C	5.7 4	6 3.31 7	BUOY	6.75 2	BUOY	3.31 7
4	PRODUCTI ON	8.75	7.0	NEW	API	N	2500	3550	2500	3338	1325	487	1050	HCP -110	26	BUTT	4.1 2	) 3.31 7	BUOY	8.21 1	BUOY	3.31 7
5	PRODUCTI ON	8.75	5.5	NEW	API	N	3550	9072	3338	3321	487	504	5522	HCP -110	17	BUTT	4.9 8	6 3.54 7	BUOY	7.14 4	BUOY	3.54 7

### **Casing Attachments**

Casing ID: 1

String SURFACE

Inspection Document:

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

Surface\_Csg\_20220426093010.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: PARKSVILLE FEDERAL COM

Well Number: 1H

Casing ID: 2	String	INTERMEDIATE
Inspection Document:		
Spec Document:		
Tapered String Spec:		
		wheek = = \$(f_a).
Casing Design Assump	tions and wo	orksneet(s):
Casing ID: 3	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and W	rkchoot(c);
Production_Csg_20	)2204260936	D6.pdf
Casing ID: 4	String	PRODUCTION
Inspection Document:		
Spec Document:		
Tapered String Spec:		
Casing Design Assump	tions and Wo	orksheet(s):
Production_Csg_20	)2204260942	D1.pdf

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Operator Name: MACK ENERGY CORPORATION

Well Name: PARKSVILLE FEDERAL COM

Well Number: 1H

#### **Casing Attachments**

Casing ID: 5 String PRODUCTION	N	PRODUCTION	String	5	Casing ID:
--------------------------------	---	------------	--------	---	------------

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

### Casing Design Assumptions and Worksheet(s):

Production\_Csg\_20220426094413.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
INTERMEDIATE	Lead		0	0	0	0	0	0		0	0
INTERMEDIATE	Tail		0	1200	560	1.34	14.8		100	Class C+1% PF1	none
PRODUCTION	Lead		0	0	0	0	0	0		0	0

PRODUCTION	Lead	0	0	0	0	0	0	0	0

SURFACE	Lead	0	250	100	1.61	14.4	171			20bbls gelled water 50sx of 11# scavenger cement
SURFACE	Tail	0	250	250	1.34	14.8	171	100		20bbls gelled water 50sx of 11# scavenger cement
PRODUCTION	Lead	0	9072	450	1.84	13.2	2292		PF20+4pps	20bbls Gelled Water 20bbls Chemical Wash 50sx of 11# Scavenger Cement

### Operator Name: MACK ENERGY CORPORATION

### Well Name: PARKSVILLE FEDERAL COM

#### Well Number: 1H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Tail		0	9072	1550	1.48	13	2292	35	(BWOW)	20bbls Gelled Water 20bbls Chemical Wash 50sx of 11# Scavenger Cement

### Section 5 - Circulating Medium

Mud System Type: Open

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: BOPE Brine Water

Describe the mud monitoring system utilized: Parson PVT with PVT Volume Recorder

### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Ηd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	250	SPUD MUD	8.5	10	74.8	0.1	11		12000	15	
250	1200	LSND/GEL	8.3	9.2	74.8	0.1	11		12000	15	
1200	9072	LSND/GEL	8.3	9.2	74.8	0.1	11		12000	15	The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1588psig (0.052*3320'TVD*9.2ppg) less than 2900 bottom hole pressure.

**Operator Name: MACK ENERGY CORPORATION** 

Well Name: PARKSVILLE FEDERAL COM

Well Number: 1H

### Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: None

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

CNL/FDC,COMPENSATED DENSILOG,GAMMA RAY LOG,DUAL LATERAL LOG/MICRO-SPHERICALLY FOCUSED,

### Coring operation description for the well:

None

### **Section 7 - Pressure**

Anticipated Bottom Hole Pressure: 1588

Anticipated Surface Pressure: 1588

Anticipated Bottom Hole Temperature(F): 95

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

Describe:

Contingency Plans geoharzards description:

**Contingency Plans geohazards** 

Hydrogen Sulfide drilling operations plan required? NO

Hydrogen sulfide drilling operations

### **Section 8 - Other Information**

### Proposed horizontal/directional/multi-lateral plan submission:

Parksville\_Federal\_Com\_1H\_Preliminary\_Horizontal\_Well\_Plan\_1\_20220426105228.pdf Horizontal\_Spacing\_20220426105236.pdf H2S\_Contingency\_Plan\_20220426110248.docx Escape\_Route\_20220426110611.pdf Natural\_Gas\_Management\_Plan\_20220427144224.pdf Drilling\_Plan\_20220506115835.pdf H2S\_Plan\_20220506115845.pdf Other proposed operations facets description:

### Other proposed operations facets attachment:

### Other Variance attachment:

Cactus\_Wellhead\_installation\_Procedure\_20220426105035.pdf Variance\_request\_20220426105202.pdf

### **DRILLING PROGRAM**

### 1. Geologic Name of Surface Formation

Quaternary

### 2. Estimated Tops of Important Geologic Markers:

Top Salt	285'
Base Salt	853'
Yates	995'
Seven Rivers	1238'
Queen	1730'
Grayburg	2135'
San Andres	2446'

### 3. Estimated Depths of Anticipated Fresh Water, Oil and Gas:

Water Sand	150'	Fresh Water
Yates	995'	Oil/Gas
Seven Rivers	1238'	Oil/Gas
Queen	1730'	Oil/Gas
Grayburg	2135'	Oil/Gas
San Andres	2446'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 250' and circulating cement back to surface will protect the surface fresh water sand. Salt section and shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them by cementing 5  $\frac{1}{2}$ " production casing, sufficient cement will be pumped to circulate back to surface.

### 4. Casing Program:

Hole Size	Interval	OD Casing	Wt, Grade, Jt, cond, collapse/burst/tension
17 1/2"	0-250'	13 3/8"	48#, J-55, ST&C, New, 5.929487/3.424386/3.46
12 1/4"	0-1200'	9 5/8"	36#, J-55, ST&C, New, 3.372062/6.705273/7.04
8 <sup>3</sup> /4"	0-2500'	7" 26#,	HCP-110,LT&C, New, 5.764172/3.316667/3.316667
8 <sup>3</sup> /4"	2500-3550	)" 7" 26#,	HCP-110, Buttress, New, 4.101994/3.316667/3.316667
8 <sup>3</sup> /4"	3550-9072	2' 5 ½" 17#	, HCP-110, Buttress, New, 4.968383/3.546667/3.546667

Variance request: A variance is requested to use a Multi Bowl System and Flex Hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test will be kept on the rig.

5. Cement Program:

13 3/8" Surface Casing: Lead 100sx, RFC+12%PF53+2%PF1+5ppsPF42+.125ppsPF29, yld 1.61, wt 14.4 ppg, 7.357gals/sx Tail: 250sx, Class C+1% PF1, yld 1.34, wt 14.8 ppg, 6.323 gals/sx, excess 100%

9 5/8" Intermediate Casing: Tail 560sx, Class C + 1% PF1, yld 1.34, wt 14.8 ppg, 6.323 gals/sx, excess 100%, Slurry Top – Surface

7" & 5 ½" Production Casing: Lead 450sx Class C 4% PF 20+4 pps PF45 +125pps PF29, yld 1.84, wt 13.2 ppg, 9.914gals/sx, excess 35%, Slurry Top-Surface Tail 1550sx, PVL + 1.3 (BWOW) PF44 + 5% PF174 + .5% PF606 + .1% PF153 +.4 PF44, yield 1.48, wt 13.0, 7.577gals/sx, 35% excess, Slurry Top- 2,400'

#### 6. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #10 will consist of a double ram-type (3000 psi WP) minimum preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on bottom. The 11" BOP will be nippled up on the 8 5/8" surface casing and tested by a 3<sup>rd</sup> party to 2000 psi used continuously until TD is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve and choke lines and choke manifold (Exhibit #11) with a minimum 3000 psi WP rating

#### 7. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination of fresh and cut brine mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-250'	Fresh Water	8.5	28	N.C.
250'-1,200'	Cut Brine	9.1	29	N.C.
1,200-TD	Cut Brine	9.1	29	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the well site at all times.

### 8. Auxiliary Well Control and Monitoring Equipment:

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

### 9. Logging, Testing and Coring Program:

A.	The electric logging program will consist of GR-Dual Laterolog, Spectral
	Density, Dual Spaced Neutron, CSNG Log from T.D. to 8 5/8 casing shoe.
р	

- B. Drill Stem test is not anticipated.
- C. No conventional coring is anticipated.
- D. Further testing procedures will be determined at TD.

### 10. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1588 psig (0.052\*3320'TVD\*9.2). Low levels of Hydrogen sulfide have been monitors in producing wells in the area, so H2S may be present while drilling of the well; a plan is attached to the Drilling program. No major loss of circulation zones has been reported in offsetting wells.

### 11. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is September 1, 2022. Once commenced, the drilling operation should be finished in approximately 20 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.

#### Attachment to Exhibit #10 NOTES REGARDING THE BLOWOUT PREVENTERS Parksville Federal Com #1H Chaves County, New Mexico

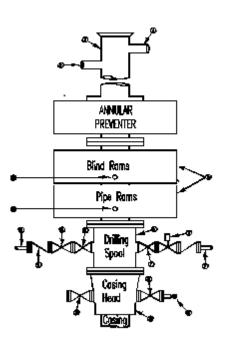
- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.

- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

### Mack Energy Corporation Minimum Blowout Preventer Requirements 3000 psi Working Pressure 13 3/8 inch- 3 MWP 11 Inch - 3 MWP EXHIBIT #10

**Stack Requirements** 

NO.	Items	Min.	Min.
		I.D.	Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3"		2"
	min choke line outlets		Choke
6b	2" min. kill line and 3" min. choke line		
	outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate	2 1/16	
	Plug		
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate	1 13/16	
	Plug		
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



#### OPTIONAL Flanged Valve

CONTRACTOR'S OPTION TO 10. CONTRACTOR'S OPTION TO FURNISH:

 All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.

16

- Automatic accumulator (80 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- 3. BOP controls, to be located near drillers' position.
- 4. Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- 6. Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
   Type RX ring gaskets in place of
- Type R.

MEC TO FURNISH:

- 1. Bradenhead or casing head and side valves.
- 2. Wear bushing. If required.

GENERAL NOTES:

1 13/16

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- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so as not to hamper or delay changing of choke beans.

Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

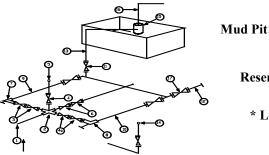
- All valves to be equipped with hand-wheels or handles ready for immediate use.
- 6. Choke lines must be suitably anchored.
- Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- 11. Does not use kill line for routine fill up operations.

# Mack Energy Corporation Exhibit #11

MIMIMUM CHOKE MANIFOLD

3,000, 5,000, and 10,000 PSI Working Pressure

3M will be used 3 MWP - 5 MWP - 10 MWP



**Reserve Pit** 

\* Location of separator optional

#### **Below Substructure**

				limimum	-						
		,	0 MWP		/	00 MWP		10,000 MWP			
No.		I.D.			I.D.			I.D.			
			Nominal	Rating		Nominal	Rating		Nominal	Rating	
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000	
2	Cross 3" x 3" x 3" x 2"			3,000			5,000				
2	Cross 3" x 3" x 3" x 2"									10,000	
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000	
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000	
5	Pressure Gauge			3,000			5,000			10,000	
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000	
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000	
9	Line		3"	3,000		3"	5,000		3"	10,000	
10	Line		2"	3,000		2"	5,000		2"	10,000	
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	
12	Line		3"	1,000		3"	1,000		3"	2,000	
13	Line		3"	1,000		3"	1,000		3"	2,000	
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000	
15	Gas Separator		2' x5'			2' x5'			2' x5'		
16	Line		4"	1,000		4"	1,000		4"	2,000	
17	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000	

Only one required in Class 3M (1)

(2)Gate valves only shall be used for Class 10 M

Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling. (3)

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating. 1.

2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.

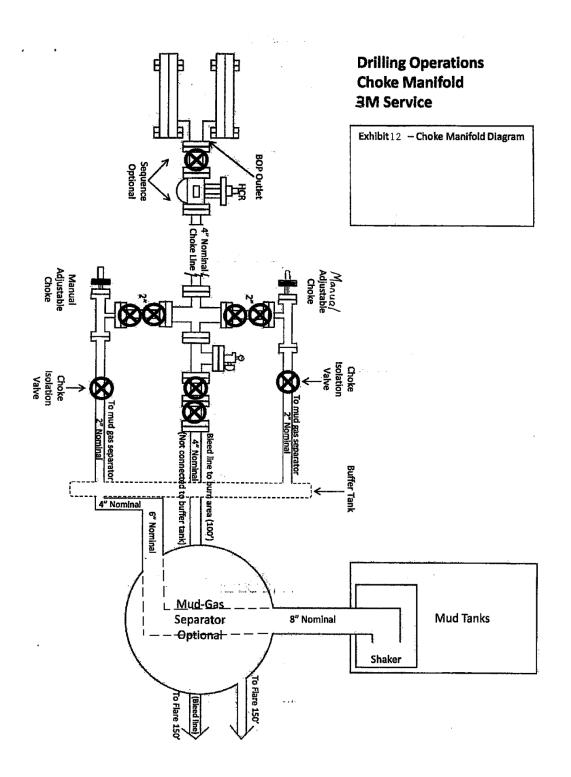
3. All lines shall be securely anchored.

4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.

5. alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.

6. Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees

#### Mack Energy Corporation MANIFOLD SCHEMATIC Exhibit #12



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-	Mack Energ Round Tanl Parksville F	<	m 1H	County	feet, °/100ft Chaves New Mexico			al Section Azin	ay, April 05, 2022 nuth 179.96 thod Minimum Cu	
Plan				Country			Survey		base Access	il vature
Locatio			FEL Section 2 ecition 28-T15		E BHL:	Map Zone	UTM	Lat	Long Ref	
Sit		JUST LL U	2010011 20-1110	0-11202		Surface X	1938446	Surfa	ace Long	
Slot Nam	e		UWI			Surface Y	11978468.8	Su	rface Lat	
Well Numbe	e <b>r</b> 1H		API			Surface Z	3838.8	Glo	bal Z Ref KB	
Projec	:t		MD/TVD R	ef KB	G	iround Level	3820.8	Local N	North Ref Grid	
DIRECTION/	NL WELL PL	AN								
MD*	INC*	AZI*	TVD*	N*	<b>E</b> *	DLS*	V. S.*	MapE*	MapN*	SysTVD
*** TIE (at MD	e = 2506.00)	doa	ft	ft	ft	°/100ft	ft	ff	ft	
2506.00	0.00	0.0	2506.00	0.00	0.00		0.00	1938446.00	11978468.80	1332.8
2550.00	0.00	0.0	2550.00	0.00	0.00	0.00	0.00	1938446.00	11978468.80	1288.8
2600.00	0.00	0.0	2600.00	0.00	0.00	0.00	0.00	1938446.00	11978468.80	1238.8
*** KOP 8 DEC	,	ND = 2606	.00)							
2606.00	0.00	0.0	2606.00	0.00	0.00	0.00	0.00	1938446.00	11978468.80	1232.8
2650.00	3.52	180.0	2649.97	-1.35	0.00	8.00	1.35	1938446.00	11978467.45	1188.8
2700.00	7.52	180.0	2699.73	-6.16	0.00	8.00	6.16	1938446.00	11978462.64	1139.0
2750.00	11.52	180.0	2749.03	-14.43	0.01	8.00	14.43	1938446.01	11978454.37	1089.7
2800.00	15.52	180.0	2797.64	-26.11	0.02	8.00	26.11	1938446.02	11978442.69	1041.1
2850.00	19.52	180.0	2845.31	-41.16	0.03	8.00	41.16	1938446.03	11978427.64	993.4
2900.00	23.52	180.0	2891.81	-59.50	0.04	8.00	59.50	1938446.04	11978409.30	946.9
2950.00	27.52	180.0	2936.92	-81.04	0.06	8.00	81.04	1938446.06	11978387.76	901.8
3000.00	31.52	180.0	2980.43	-105.67	0.07	8.00	105.67	1938446.07	11978363.13	858.3
3050.00	35.52	180.0	3022.10	-133.28	0.09	8.00	133.28	1938446.09	11978335.52	816.7
3100.00	39.52	180.0	3061.75	-163.72	0.11	8.00	163.72	1938446.11	11978305.08	777.0
3150.00	43.52	180.0	3099.18	-196.86	0.14	8.00	196.86	1938446.14	11978271.94	739.6
3200.00	47.52	180.0	3134.20	-232.53	0.16	8.00	232.53	1938446.16	11978236.27	704.6
3250.00	51.52	180.0	3166.66	-270.55	0.19	8.00	270.55	1938446.19	11978198.25	672.1
*** 55 DEGRE	E TAN (at M									
3293.50	55.00	180.0	3192.67	-305.40	0.21	8.00	305.40	1938446.21	11978163.40	646.1
3300.00	55.00	180.0	3196.40	-310.73	0.22	0.00	310.73	1938446.22	11978158.07	642.4
3350.00	55.00	180.0	3225.08	-351.69	0.25	0.00	351.69	1938446.25	11978117.11	613.7
3400.00	55.00	180.0	3253.76	-392.64	0.27	0.00	392.64	1938446.27	11978076.16	585.0
3450.00	55.00	180.0	3282.44	-433.60	0.30	0.00	433.60	1938446.30	11978035.20	556.3
*** 10 DEGRE	E BUILD (at	MD = 349	,							
3493.50	55.00	180.0	3307.39	-469.23	0.33	0.00	469.23	1938446.33	11977999.57	531.4
3500.00	55.65	180.0	3311.09	-474.58	0.33	10.00	474.58	1938446.33	11977994.22	527.7
3550.00	60.65	180.0	3337.46	-517.04	0.36	10.00	517.04	1938446.36	11977951.76	501.3
3600.00	65.65	180.0	3360.04	-561.63	0.39	10.00	561.63	1938446.39	11977907.17	478.7
3650.00	70.65	180.0	3378.64	-608.03	0.42	10.00	608.03	1938446.42	11977860.77	460.1
3700.00	75.65	180.0	3393.13	-655.86	0.46	10.00	655.86	1938446.46	11977812.94	445.6
3750.00	80.65	180.0	3403.40	-704.78	0.49	10.00	704.78	1938446.49	11977764.02	435.4
3800.00	85.65	180.0	3409.36	-754.41	0.53	10.00	754.41	1938446.53	11977714.39	429.4
*** LANDING F	POINT (at M	ID = 3843	50)							
3843.50	90.00	180.0	3411.01	-797.87	0.56	10.00	797.87	1938446.56	11977670.93	427.7
3850.00	90.00	180.0	3411.01	-804.37	0.56	0.00	804.37	1938446.56	11977664.43	427.7
3900.00	90.00	180.0	3411.01	-854.37	0.60	0.00	854.37	1938446.60	11977614.43	427.7
3950.00	90.00	180.0	3411.01	-904.37	0.63	0.00	904.37	1938446.63	11977564.43	427.7

		nk	m 1H	County	feet, °/100ft Chaves New Mexico			cal Section Azin Calculation Met	ay, April 05, 2022 nuth 179.96 hod Minimum Cur pase Access	-
	n SL: 710		FEL Section	21-T15S-R2		Map Zor	ne UTM		Long Ref	
0.1		965 FEL S	ecition 28-T1	5S-R29E		0	× 4000440	0		
Sit Slot Nam			UWI				X 1938446 Y 11978468.8		ace Long rface Lat	
Siot Name			API				Z 3838.8		bal Z Ref KB	
Projec			MD/TVD F		G	round Lev			North Ref Grid	
							0020.0	Local I		
DIRECTION			T\/D*	<b>N</b> 14	<b>F</b> +			<b>NA F</b> *	<b>N</b> N <b>I</b> + <i>C</i>	
MD*	INC*	AZI*	TVD*	N*	E*	<b>DLS*</b>	V. S.* "	MapE*	MapN* S	SysivD
4000.00	90.00	180.0	3411.01	-954.37	0.67	0.00	954.37	1938446.67	11977514.43	427.7
4050.00	90.00	180.0	3411.01	-1004.37	0.70	0.00	1004.37	1938446.70	11977464.43	427.7
4100.00	90.00	180.0	3411.01	-1054.37	0.74	0.00	1054.37	1938446.74	11977414.43	427.7
4150.00	90.00	180.0	3411.01	-1104.37	0.77	0.00	1104.37	1938446.77	11977364.43	427.7
4200.00	90.00	180.0	3411.01	-1154.37	0.81	0.00	1154.37	1938446.81	11977314.43	427.7
4250.00	90.00	180.0	3411.01	-1204.37	0.84	0.00	1204.37	1938446.84	11977264.43	427.7
4300.00	90.00	180.0	3411.01	-1254.37	0.88	0.00	1254.37	1938446.88	11977214.43	427.7
4350.00	90.00	180.0	3411.01	-1304.37	0.91	0.00	1304.37	1938446.91	11977164.43	427.7
4400.00	90.00	180.0	3411.01	-1354.37	0.95	0.00	1354.37	1938446.95	11977114.43	427.7
4450.00	90.00	180.0	3411.01	-1404.37	0.98	0.00	1404.37	1938446.98	11977064.43	427.7
4500.00	90.00	180.0	3411.01	-1454.37	1.02	0.00	1454.37	1938447.02	11977014.43	427.7
4550.00	90.00	180.0	3411.01	-1504.37	1.05	0.00	1504.37	1938447.05	11976964.43	427.7
4600.00	90.00	180.0	3411.01	-1554.37	1.09	0.00	1554.37	1938447.09	11976914.43	427.7
4650.00	90.00	180.0	3411.01	-1604.37	1.12	0.00	1604.37	1938447.12	11976864.43	427.7
4700.00	90.00	180.0	3411.01	-1654.37	1.16	0.00	1654.37	1938447.16	11976814.43	427.7
4750.00	90.00	180.0	3411.01	-1704.37	1.19	0.00	1704.37	1938447.19	11976764.43	427.7
4800.00	90.00	180.0	3411.01	-1754.37	1.22	0.00	1754.37	1938447.22	11976714.43	427.7
4850.00	90.00	180.0	3411.01	-1804.37	1.26	0.00	1804.37	1938447.26	11976664.43	427.7
4900.00	90.00	180.0	3411.01	-1854.37	1.29	0.00	1854.37	1938447.29	11976614.43	427.7
4950.00	90.00	180.0	3411.01	-1904.37	1.33	0.00	1904.37	1938447.33	11976564.43	427.7
5000.00	90.00	180.0	3411.01	-1954.37	1.36	0.00	1954.37	1938447.36	11976514.43	427.7
5050.00	90.00	180.0	3411.01	-2004.37	1.40	0.00	2004.37	1938447.40	11976464.43	427.7
5100.00	90.00	180.0	3411.01	-2054.37	1.43	0.00	2054.37	1938447.43	11976414.43	427.7
5150.00	90.00	180.0	3411.01	-2104.37	1.47	0.00	2104.37	1938447.47	11976364.43	427.7
5200.00	90.00	180.0	3411.01	-2154.37	1.50	0.00	2154.37	1938447.50	11976314.43	427.7
5250.00	90.00	180.0	3411.01	-2204.37	1.50	0.00	2204.37	1938447.54	11976264.43	427.7
5300.00	90.00	180.0	3411.01	-2254.37	1.57	0.00	2254.37	1938447.57	11976214.43	427.7
HOLD FLA		5321.50)	011.01	-2204.01	1.07	0.00	2207.01	1000 + 1.01	11070214.40	721.1
5321.50	90.00	180.0	3411.01	-2275.87	1.59	0.00	2275.87	1938447.59	11976192.93	427.7
5350.00	90.41	180.0	3410.91	-2304.37	1.61	1.43	2304.37	1938447.61	11976164.43	427.8
5400.00	91.12	180.0	3410.24	-2354.36	1.64	1.43	2354.36	1938447.64	11976114.44	428.5
* 1.43 DEGF						-		/	- ····	
5419.40	91.40	180.0	3409.81	-2373.76	1.66	1.43	2373.76	1938447.66	11976095.04	428.9
5450.00	91.40	180.0	3409.06	-2404.35	1.68	0.00	2404.35	1938447.68	11976064.45	429.7
5500.00	91.40	180.0	3407.84	-2454.33	1.71	0.00	2454.34	1938447.71	11976014.47	430.9
5550.00	91.40	180.0	3406.62	-2504.32	1.75	0.00	2504.32	1938447.75	11975964.48	432.1
5600.00	91.40	180.0	3405.40	-2554.30	1.78	0.00	2554.31	1938447.78	11975914.50	433.4

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		k	m 1H	County	feet, °/100ft Chaves New Mexico USA			cal Section Azin Calculation Met	ay, April 05, 2022 huth 179.96 hod Minimum Co base Access	-
Location			FEL Section		9E BHL:	Map Zo	ne UTM	Lat	Long Ref	
Site						Surface	<b>X</b> 1938446	Surfa	ace Long	
Slot Name	9		UWI				<b>Y</b> 11978468.	8 <b>Su</b>	rface Lat	
Well Numbe	<b>r</b> 1H		API				<b>Z</b> 3838.8		bal Z Ref KB	
Projec	t		MD/TVD R	Ref KB	G	round Lev	<b>el</b> 3820.8	Local N	lorth Ref Grid	
DIRECTIONA		LAN								
MD*	INC*	AZI*	TVD*	N*	E*	<b>DLS*</b>	V. S.*	MapE*	MapN*	SysTVD
5650.00	91.40	180.0	3404.18	-2604.29	1.82	0.00	2604.29	1938447.82	11975864.51	434.6
5700.00	91.40	180.0	3402.96	-2654.27	1.85	0.00	2654.28	1938447.85	11975814.53	435.8
5750.00	91.40	180.0	3401.73	-2704.26	1.89	0.00	2704.26	1938447.89	11975764.54	437.0
5800.00	91.40	180.0	3400.51	-2754.24	1.92	0.00	2754.25	1938447.92	11975714.56	438.2
5850.00	91.40	180.0	3399.29	-2804.23	1.96	0.00	2804.23	1938447.96	11975664.57	439.5
5900.00	91.40	180.0	3398.07	-2854.22	1.99	0.00	2854.22	1938447.99	11975614.59	440.7
	01 40	100.0	2206.95	2004 20	2.02	0.00	2004 20	1020440.02	11075564 60	444.0
5950.00	91.40	180.0	3396.85	-2904.20	2.03	0.00	2904.20	1938448.03	11975564.60	441.9
6000.00	91.40	180.0	3395.63	-2954.19	2.06	0.00	2954.19	1938448.06	11975514.61	443.1
6050.00	91.40	180.0	3394.41	-3004.17	2.10	0.00	3004.17	1938448.10	11975464.63	444.4
6100.00	91.40	180.0	3393.18	-3054.16	2.13	0.00	3054.16	1938448.13	11975414.64	445.6
6150.00	91.40	180.0	3391.96	-3104.14	2.17	0.00	3104.14	1938448.17	11975364.66	446.8
6200.00	91.40	180.0	3390.74	-3154.13	2.20	0.00	3154.13	1938448.20	11975314.67	448.0
6250.00	91.40	180.0	3389.52	-3204.11	2.24	0.00	3204.11	1938448.24	11975264.69	449.2
6300.00	91.40	180.0	3388.30	-3254.10	2.27	0.00	3254.10	1938448.27	11975214.70	450.5
6350.00	91.40	180.0	3387.08	-3304.08	2.31	0.00	3304.08	1938448.31	11975164.72	451.7
6400.00	91.40	180.0	3385.85	-3354.07	2.34	0.00	3354.07	1938448.34	11975114.73	452.9
6450.00	91.40	180.0	3384.63	-3404.05	2.38	0.00	3404.05	1938448.38	11975064.75	454.1
6500.00	91.40	180.0	3383.41	-3454.04	2.41	0.00	3454.04	1938448.41	11975014.76	455.3
6550.00	91.40 91.40	180.0	3382.19	-3504.02	2.45	0.00	3504.02	1938448.45	11974964.78	456.6
6600.00	91.40 91.40	180.0	3380.97	-3554.01	2.43	0.00	3554.01	1938448.48	11974914.79	457.8
6650.00	91.40 91.40	180.0	3379.75	-3603.99	2.52	0.00	3603.99	1938448.52	11974864.81	459.0
6700.00	91.40	180.0	3378.52	-3653.98	2.55	0.00	3653.98	1938448.55	11974814.82	460.2
6750.00	91.40	180.0	3377.30	-3703.96	2.59	0.00	3703.96	1938448.59	11974764.84	461.5
6800.00	91.40	180.0	3376.08	-3753.95	2.62	0.00	3753.95	1938448.62	11974714.85	462.7
6850.00	91.40	180.0	3374.86	-3803.93	2.66	0.00	3803.93	1938448.66	11974664.87	463.9
6900.00	91.40	180.0	3373.64	-3853.92	2.69	0.00	3853.92	1938448.69	11974614.88	465.1
6950.00	91.40	180.0	3372.42	-3903.90	2.73	0.00	3903.90	1938448.73	11974564.90	466.3
7000.00	91.40	180.0	3371.19	-3953.89	2.76	0.00	3953.89	1938448.76	11974514.91	467.6
7050.00	91.40	180.0	3369.97	-4003.87	2.80	0.00	4003.87	1938448.80	11974464.93	468.8
7100.00	91.40	180.0	3368.75	-4053.86	2.83	0.00	4053.86	1938448.83	11974414.94	470.0
7150.00	91.40	180.0	3367.53	-4103.84	2.87	0.00	4103.84	1938448.87	11974364.96	471.2
7000.00	01 40	100.0	2266.24	1150.00	0.00	0.00	4450.00	1020/40.00	1107/04/07	170 4
7200.00	91.40	180.0	3366.31	-4153.83	2.90	0.00	4153.83	1938448.90	11974314.97	472.4
7250.00	91.40	180.0	3365.09	-4203.81	2.93	0.00	4203.81	1938448.93	11974264.99	473.7
7300.00	91.40	180.0	3363.86	-4253.80	2.97	0.00	4253.80	1938448.97	11974215.00	474.9
7350.00	91.40	180.0	3362.64	-4303.78	3.00	0.00	4303.78	1938449.00	11974165.02	476.1
7400.00	91.40	180.0	3361.42	-4353.77	3.04	0.00	4353.77	1938449.04	11974115.03	477.3
7450.00	91.40	180.0	3360.20	-4403.75	3.07	0.00	4403.75	1938449.07	11974065.05	478.6

			Par	ksville	Federal	Com	1H, Pla	n 1		
		k	m 1H	County	New Mexico	15:09 Tuesday, April 05, 2022 Vertical Section Azimuth 179.96 Survey Calculation Method Minimum Cu Database Access				
Location			FEL Section		9E BHL:	Map Zo	ne UTM	Lat	Long Ref	
Site		965 FEL S	ecition 28-T1	5-R29E		Surface	<b>X</b> 1938446	Surf	ace Long	
Slot Name	e		UWI			Surface	<b>Y</b> 11978468		rface Lat	
Well Numbe	<b>r</b> 1H		API			Surface	<b>Z</b> 3838.8	Glo	bal Z Ref KB	
Projec	t		MD/TVD R	lef KB	G	iround Lev	/el 3820.8	Local N	North Ref Grid	
DIRECTIONA	L WELL PI	LAN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	-	SysTVD
7500.00	91.40	180.0	3358.98	-4453.74	3.11	°/100ft 0.00	4453.74	1938449.11	ft 11974015.06	479.8
7550.00	91.40	180.0	3357.76	-4503.72	3.14	0.00	4503.72	1938449.14	11973965.08	481.0
7600.00	91.40	180.0	3356.54	-4553.71	3.18	0.00	4553.71	1938449.18	11973915.09	482.2
7650.00	91.40	180.0	3355.31	-4603.69	3.21	0.00	4603.69	1938449.21	11973865.11	483.4
7700.00	91.40	180.0	3354.09	-4653.68	3.25	0.00	4653.68	1938449.25	11973815.12	484.7
7750.00	91.40	180.0	3352.87	-4703.66	3.28	0.00	4703.66	1938449.28	11973765.14	485.9
7800.00	91.40	180.0	3351.65	-4753.65	3.32	0.00	4753.65	1938449.32	11973715.15	487.1
7850.00	91.40	180.0	3350.43	-4803.63	3.35	0.00	4803.63	1938449.35	11973665.17	488.3
7900.00	91.40	180.0	3349.21	-4853.62	3.39	0.00	4853.62	1938449.39	11973615.18	489.5
7950.00	91.40	180.0	3347.98	-4903.60	3.42	0.00	4903.60	1938449.42	11973565.20	490.8
8000.00	91.40	180.0	3346.76	-4953.59	3.46	0.00	4953.59	1938449.46	11973515.21	492.0
8050.00	91.40	180.0	3345.54	-5003.57	3.49	0.00	5003.57	1938449.49	11973465.23	493.2
8100.00	91.40	180.0	3344.32	-5053.56	3.53	0.00	5053.56	1938449.53	11973415.24	494.4
8150.00	91.40	180.0	3343.10	-5103.54	3.56	0.00	5103.54	1938449.56	11973365.26	495.7
8200.00	91.40	180.0	3341.88	-5153.53	3.60	0.00	5153.53	1938449.60	11973315.27	496.9
8250.00	91.40	180.0	3340.65	-5203.51	3.63	0.00	5203.51	1938449.63	11973265.29	498.1
8300.00	91.40	180.0	3339.43	-5253.50	3.67	0.00	5253.50	1938449.67	11973215.30	499.3
8350.00	91.40	180.0	3338.21	-5303.48	3.70	0.00	5303.48	1938449.70	11973165.32	500.5
8400.00	91.40	180.0	3336.99	-5353.47	3.74	0.00	5353.47	1938449.74	11973115.33	501.8
8450.00	91.40	180.0	3335.77	-5403.45	3.77	0.00	5403.45	1938449.77	11973065.35	503.0
8500.00	91.40 91.40	180.0	3334.55	-5453.44	3.81	0.00	5453.44	1938449.81	11973015.36	504.2
8550.00	91.40 91.40	180.0	3333.32	-5503.42	3.84	0.00	5503.42	1938449.84	11972965.38	505.4
8600.00	91.40	180.0	3332.10	-5553.41	3.88	0.00	5553.41	1938449.88	11972915.39	506.7
8650.00	91.40	180.0	3330.88	-5603.39	3.91	0.00	5603.39	1938449.91	11972865.41	507.9
8700.00	91.40	180.0	3329.66	-5653.38	3.95	0.00	5653.38	1938449.95	11972815.42	509.1
8750.00	91.40 91.40	180.0	3329.00 3328.44	-5703.36	3.95	0.00	5703.36	1938449.95	11972765.44	510.3
8800.00	91.40 91.40	180.0	3327.22	-5753.35	4.02	0.00	5753.35	1938450.02	11972705.44	511.5
8850.00	91.40 91.40	180.0	3326.00	-5803.33	4.02	0.00	5803.34	1938450.02	11972665.47	512.8
8900.00	91.40 91.40	180.0	3324.77	-5853.32	4.09	0.00	5853.32	1938450.09	11972615.48	514.0
8950.00	91.40	180.0	3323.55	-5903.30	4.12	0.00	5903.31	1938450.12	11972565.50	515.2
9000.00	91.40 91.40	180.0	3323.33	-5953.29	4.12	0.00	5953.29	1938450.12	11972515.50	515.2
9000.00 9050.00	91.40 91.40	180.0 180.0	3322.33 3321.11	-5953.29 -6003.27	4.16	0.00	6003.29	1938450.16	11972465.53	516.4
9050.00		100.0	JJZ 1. 1 1	-0003.27	4.19	0.00	0003.20	1900400.19	11972400.03	517.0
9071.40	91.40	180.0	3320.59	-6024.67	4.21	0.00	6024.67	1938450.21	11972444.13	518.2
5011.10	01.10		0020.00	0021.07	1.21	0.00	0021.07	1000 100.21		0.0

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# PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mack Energy Corporation

WELL NAME & NO.: Parksville Federal Com 1H

LOCATION: Section 021, T015. S., R 029 E., NMPM

COUNTY: Chaves County, New Mexico

### **1. GENERAL PROVISIONS**

Approval of the APD does not warrant that any party holds equitable or legal title. Any request for a variance shall be submitted to the Authorized Officer on Sundry Notice (Form 3160-5).

For BLM's surface operating standards and guidelines, refer to: <u>The Gold Book</u>, Fourth Edition – Revised 2007. To obtain a copy free of charge contact the Roswell Field Office (575) 627-0272 or visit BLM on the web at:

http://www.blm.gov/wo/st/en/prog/energy/oil\_and\_gas/best\_management\_practices/gold\_book.html

All construction, operations, and reclamation shall follow the Onshore Oil and Gas Operations as described in the 43 CFR part 3160.

The Operator shall submit a Sundry Notice (Form 3160-5) to the Bureau of Land Management, Roswell Field Office (address above) for approval prior to beginning any new surface-disturbing activities or operations that are not specifically addressed and approved by this APD.

A site facility diagram and a site security plan shall be filed no later than 60 calendar days following first production (Onshore Order 3, Section III, I. and 43 CFR 3162.7-5).

### 2. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD (Filing of a Sundry Notice is required for this 60 day extension).

### 3. JURISDICTIONAL WATERS of the U.S.

The operator shall obtain appropriate permits from the U.S. Army Corps of Engineers prior to discharge or dredge and fill material into waters of the United States in accordance with Section 404 of the Clean Water Act. Contact The U.S. Army Corps of Engineers regulatory New

Mexico Branch Office, 4101 Jefferson Plaza NE, Albuquerque, NM 87109-3435 at (505) 342-3678 or Email: <u>CESPA-RD-NM@usace.army.mil</u> if you have questions.

### 4. ARCHAEOLOGICAL, PALEONTOLOGICAL & HISTORICAL SITES

Any cultural and/or paleontological resource discovered inadvertently by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

### 5. HUMAN REMAINS AND OBJECTS OF CULTURAL PATRIMONY

The operator shall comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, funerary objects, sacred objects, and objects of cultural patrimony that are discovered inadvertently during project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. In the unlikely event that any cultural resource (prehistoric and historic period buildings, sites, structures, objects, and landscapes) and/or paleontological resource is discovered on public or Federal land by the holder, or any person working on behalf of the holder, the holder shall immediately halt the disturbance within 100 feet of the post-review discovery. The holder shall contact the BLM Authorized Officer within 24 hours for instructions:

BLM Authorized Officer:	If BLM Authorized Officer is Unavailable:
Randy Howard	Peter R Meadville
Assistant Field Manager, Resources	Archaeologist
575-627-0266	575-627-0328

The BLM Authorized Officer will coordinate with the appropriate specialists to ensure that qualified professionals evaluate the discovery, and to decide appropriate actions to prevent the loss of significant cultural or scientific values. The holder shall be responsible for the costs of evaluation, reporting, excavation, treatment, and/or disposition. Project implementation shall not proceed within 100 feet of the location of the post-review discovery until the BLM has concluded the post-review discovery process, and the BLM Authorized Officer has provided the holder with a written notice to proceed.

2. In the event that project implementation results in the inadvertent discovery of Native American human remains, funerary objects, sacred objects, and/or objects of cultural patrimony, the holder shall immediately halt the disturbance within 300 feet of the inadvertent discovery. The holder shall contact the BLM Authorized Officer within 24 hours for instructions:

BLM Authorized Officer:	If BLM Authorized Officer is Unavailable:
Ruben Sanchez	
Assistant Field Manager, Resources	Law Enforcement Officer
575-627-0266	760-791-8760

The holder shall be held responsible for ceasing activity and protecting the inadvertent discovery as well as for the costs of protection, evaluation, reporting, excavation, treatment, and/or disposition of the inadvertent discovery. The BLM shall use the process identified in the Native American Graves Protection and Repatriation Act (NAGPRA) and in 43 CFR 10.4 to proceed according to the rights of the culturally affiliated party, as applicable. Project implementation within 300 feet of the location of the inadvertent discovery may resume 30 days after BLM certifies the notification, or when a written Plan of Action following 43 CFR 10.3(b)(1) is approved. In either case, the BLM Authorized Officer will provide the holder with a written notice to proceed.

### 6. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations (access road and/or well pad). Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

### 7. CAVE AND KARST

Any Cave or Karst feature discovered by the operator or by any person working on the operator's behalf shall immediately report the feature to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. During drilling, previously unknown cave and karst features could be encountered. If a void is encountered while drilling and a loss of circulation occurs, lost drilling fluids can directly contaminate groundwater recharge areas, aquifers, and groundwater quality. Drilling operations can also lead to sudden collapse of underground voids.

To mitigate or lessen the probability of impacts associated with the drilling and production of oil and gas wells in karst areas, the guidelines listed in Appendix 3, Practices for Oil and Gas Drilling and Production in Cave and Karst Areas, as approved in the Roswell Resource Management Plan Amendment of 1997, page AP3-4 through AP 3-7 shall be followed.

A more complete discussion of the impacts of oil and gas drilling can be found in the *Dark Canyon Environmental Impact Statement of 1993*, published by the U.S. Department of the Interior, Bureau of Land Management.

### 8. CONSTRUCTION

**NOTIFICATION:** The BLM shall administer compliance and monitor construction of the access road and well pad. Notify Natural Resource Specialist, Ricky Flores at (575) 627-0339 or the Roswell Field Office at (575) 627-0272 <u>at least three (3) working days prior to</u> <u>commencing construction of the access road and/or well pad.</u>

A complete copy of the *approved* APD and the attached Conditions of Approval (COAs) **shall be kept on the well's location** for reference upon inspections.

Construction over and/or immediately adjacent to existing pipelines shall be coordinated, and in accordance with, the relevant pipeline companies' policy.

Any trench left open for (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, an agency approved monitor shall walk the entire length of the open trench and remove all trapped fauna. The bottom surface of the trench will be disturbed a minimum of 2 inches in order to arouse any buried fauna. All fauna will be released a minimum of 100 yards from the trench.

For trenches left open for (8) hours or more, earthen escape ramps (built at nor more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench. Structures will also be authorized within the trench. Metal structures will not be authorized. Structures used as escape ramps will be placed at no more than a 30 degree slope and spaced no more than 500 feet apart.

### 9. TOPSOIL:

When saturated soil conditions exist on access roads or location, construction shall be halted until soil material dries out or is frozen sufficiently for construction to proceed without undue damage and erosion to soils, roads and locations.

Topsoil shall be stripped following removal of vegetation during construction of well pads, pipelines, roads, or other surface facilities. This shall include all growth medium - at a minimum, the upper 2-6 inches of soil - but shall also include stripping of any additional topsoil present at a site, such as indicated by color or texture. Stripping depth may be specified during the onsite inspection. Stripped topsoil shall be stored separately from subsoil or other excavated material and replaced prior to interim seedbed preparation. No topsoil shall be stripped when soils are moisture-saturated or frozen below the stripping depth.

The topsoil will not be used to construct the containment structures or earthen dikes that are on the outside boundaries of the constructed well pad, tanks, and storage facilities.

Each construction area is site specific as to topsoil depth. It is the operator's responsibility to ensure that topsoil, caliche, or spoils are not mixed together.

(**Pads**): topsoil will be stripped and stored in separate piles from the spoils pile. They can be stored on opposite or adjacent sides. If topsoil and spoils must be stored on the same pad side together they shall be no closer than toe to toe, not overlapping. Each pile shall be kept within 30 feet of the pad's side. 100% of the topsoil will be used for both interim and final reclamation. 100% of topsoil will be respread over the disturbed areas during reclamation.

(**Roads**): topsoil shall be stripped in such a way to follow the road's edge outside of the surfacing or drivable area. During final reclamation, after removal of surface material and recontouring, 100% of topsoil will be respread over the disturbed areas during reclamation. Vegetation in the topsoil will help hold re-seeding, moisture content, and reduce erosion.

### **10. WELL PAD SURFACING:**

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational need. Surfacing of the well pad is not required. If the operator elects to surface the well pad, the surfacing material will be required to be removed at the time of reclamation.

### Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattle guard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guard(s) that are in place and are utilized during lease operations. Gates or cattle guards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the authorized officer. A gate shall be constructed and fastened securely to H-braces. **Fence Requirement** 

The operator shall notify the private surface landowner or the grazing allotment operator prior to crossing any fence(s). Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

### **11. PRODUCTION:**

### Storage

Fiberglass storage tanks are *not* permitted for the storage of production.

### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim reclamation and re-vegetation of the well location.

### **Containment Structures**

All production facilities shall have a lined containment structure large enough to contain <u>110%</u> of the largest Tank (PLUS) 24 hours of production (43 CFR 3162.5-1) *Environmental Obligations*, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>OIL GREEN</u> (Standard Environmental Color Chart June 2008).

### **Completion Report**

In accordance with 43 CFR 3160, Form 3160-4 (Well Completion or Re-completion Report and Log) must be submitted to the Bureau of Land Management, Roswell Field Office within 30 days after completion of the well or producer. Copies of all open hole and cased hole logs, core descriptions, core analyses, well test data, geologic summaries, sample descriptions, formation test reports, stimulation reports, directional survey (if applicable), and all other surveys or data obtained and compiled during the drilling, completion, and/or work over operations, shall be included with Form 3160-4.

### **12. INTERIM RECLAMATION:**

Reclamation earthwork for interim and/or final reclamation shall be completed within 6 months of well completion or well plugging (weather permitting), and shall consist of: 1) backfilling pits, 2) re-contouring and stabilizing the well site, access road, cut/fill slopes, drainage channels, utility and pipeline corridors, and all other disturbed areas, to approximately the original contour, shape, function, and configuration that existed before construction (any compacted backfilling activities shall ensure proper spoils placement, settling, and stabilization, 3) surface ripping, prior to topsoil placement, to a depth of 18-24 inches deep on 18-24 inch centers to reduce compaction, 4) final grading and replacement of all topsoil so that no topsoil's remains in the stockpile, 5) seeding in accordance with reclamation portions of the APD and these COA's.

Any subsequent re-disturbance of interim reclamation shall be reclaimed within six (6) months by the same means described above.

### Prior to conducting interim reclamation, the operator is required to:

• Submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting interim reclamation.

• Contact BLM at least three (3) working days prior to conducting any interim reclamation activities, and prior to seeding.

During reclamation, the removal of caliche is important to increasing the success of re-vegetating the site. Removed caliche may be used in road repairs, fire walls or for building other roads and locations. In addition, in order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing re-vegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be re-vegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

Use a certified noxious weed-free seed mixture. Use seed tested for viability and purity in accordance with State law(s) within nine months prior to purchase. Use a commercial seed mixture certified or registered and tagged in accordance with State law(s). Make the seed mixture labels available for BLM inspection.

### 13. SEED MIX:

### SEE ATTACHED SEED MIX.

WELL NAME	ECOSITE (ACCESS ROAD)	ECOSITE (PAD)
Hamilton Federal Com 2H	SANDY CP2	SANDY CP2

### **14. FINAL ABANDONMENT:**

- **A.** Upon abandonment of the well a Notice of Intent for Plug and Abandonment describing plugging procedures. Followed within 30 days you shall file with this office, a Subsequent Report of Abandonment (Form 3160-5). To be included with this report is where the plugs were placed; volumes of cement used and well bore schematic as plugged.
- **B.** On private surface/federal mineral estate land the reclamation procedures on the road and well pad shall be accomplished in accordance with the Private Surface Land Owner agreements and a copy of the release is to be submitted upon abandonment.
- C. The Operator shall promptly plug and abandoned each newly completed, re-completed or producing well which is not capable of producing in paying quantities. No well may be temporarily abandoned for more than 30 days without prior approval from this office. When justified by the Operator, BLM may authorize additional delays, no one of which may exceed an additional 12 months. Upon removal of drilling or producing equipment form the site of a well which is to be permanently abandoned, the surface of the lands disturbed shall be reclaimed in accordance with an approved Notice of Intent for final reclamation.
- **D. Final reclamation shall include:** the removal of all solid waste, trash, surfacing materials, storage facilities and all other related equipment, flow lines, and meter housing, power poles, guy wires, and all other related power materials. All disturbed areas, i.e. cuts and fills, shall be re-

contoured to their original surroundings. 100% of topsoil shall be used to resurface all disturbed areas including access roads. A label of the seed mix used shall be submitted with the Final Abandonment Notice (FAN) for review once reclamation is complete.

### **15. PIPELINE PROTECTION REQUIREMENT:**

Precautionary measures shall be taken by the operator during construction of the access road to protect existing pipelines that the access road will cross over. An earthen berm; 2 feet high by 3 feet wide and 14 feet across the access road travelway (2' X 3' X 14'), shall be constructed over existing pipelines. The operator shall be held responsible for any damage to existing pipelines. If the pipeline is ruptured and/or damaged the operator shall immediately cease construction operations and repair the pipeline. The operator shall be held liable for any unsafe construction operations that threaten human life and/or cause the destruction of equipment.

# 16. WILDLIFE PROTECTION MEASURES – Best Management Practices (BMPs)

# COA/Stipulation for above ground pipelines

All pipelines laid on the surface will have sloped dirt berms built over them every 100 yards to allow reptiles, amphibians, small mammals, ground-dwelling birds and their broods access over them. Dirt berms should be no less than 12 inches in width and extend over all surface pipelines within the Right of Way. Berms should be maintained for the life of the project.

### Wildlife Mortality - General

The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)

### 1. Closed top tanks are required for any containment system.

All tanks are required to have a closed top. Netting of tanks will *NOT* be permitted within LPC habitat.

### 2. Chemical and Fuel Secondary Containment Systems

Chemical and Fuel Secondary Containment and Exclosure Screening – The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary

containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. Closed-top tanks are required for any secondary containment systems.

### 3. Open-Vent Exhaust Stacks

Open-Vent Exhaust Stack Exclosures – The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

### 17. WASTE, HAZARDOUS AND SOLID:

Waste materials produced during all phases of operation will be disposed of promptly in an approved manner so it will not impact the air, soil, water, vegetation or animals. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then removed and deposited in an approved disposal site. Portable toilets will remain on site throughout well pad construction, drilling and reclamation.

The operator and contractors shall ensure that all use, production, storage, transportation and disposal of hazardous materials, solid wastes and hazardous wastes associated with the drilling, completion and production of this well will be in accordance with all applicable existing or hereafter promulgated federal, state and local government rules, regulations and guidelines. All project related activities involving hazardous materials will be conducted in a manner to minimize potential environmental impacts. A file will be maintained onsite containing current Safety Data Sheets (SDS) for all chemicals, compounds and/or substances which are used in the course of construction, drilling, completion and production operations.

### 18. SURFACE WATER AND GROUNDWATER PROTECTION MEASURES – Best Management Practices (BMPs)\

A containment structure or earthen dike shall be constructed and maintained around the north, and east outside boundary of the well pad. The containment structure or earthen dike shall be constructed two (2) feet high (the containment structure or earthen dike can be constructed higher than the two (2) feet high minimum). The containment structure or earthen dike is required so that if a oilfield waste contaminant or product contaminant

were leaked, spilled, and or released upon the well pad the oilfield waste contaminant or product contaminant shall be contained in order to prevent the contaminant from entering into the ephemeral drainage located north and east and downslope of the well pad location. Mack Energy Corporation Parksville Federal Com #1H NMNM-065397 SHL : 710 FSL & 965 FEL, SESE, Sec. 21 T15S R29E BHL : 1 FSL & 965 FEL, SESE, Sec. 28 T15S R29E Chaves County, NM

### Mack Energy Corporation Onshore Order #6 Hydrogen Sulfide Drilling Operation Plan

## I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards an characteristics of hydrogen sulfide (H2S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H2S detectors alarms warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H2S on metal components. If high tensile tubular are to be used, personnel well be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H2S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. The concentrations of H2S of wells in this area from surface to TD are low enough that a contingency plan is not required.

## II. H2S SAFETY EQUIPMENT AND SYSTEMS

Note: All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonable expected to contain H2S.

### 1. Well Control Equipment:

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment may include if applicable: annular preventer & rotating head.

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### 2. Protective equipment for essential personnel:

A. Mark II Survive air 30-minute units located in the doghouse and at briefing areas, as indicated on well site diagram.

### 3. H2S detection and monitoring equipment:

A. 1 portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

### 4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram (Exhibit #8).
- B. Caution/Danger signs (Exhibit #7) shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.

### 5. Mud program:

A. The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

### 6. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- B. All elastomers used for packing and seals shall be H2S trim.

### 7. Communication:

- A. Radio communications in company vehicles including cellular telephone and 2way radio.
- B. Land line (telephone) communication at Office.

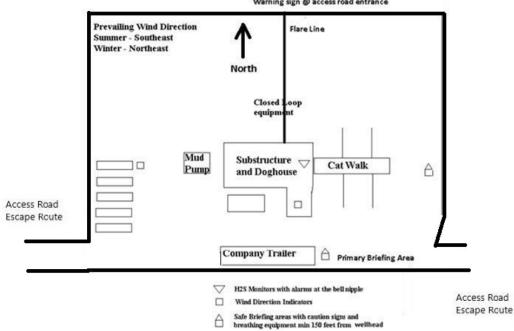
### 8. Well testing:

A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.

Mack Energy Corporation Parksville Federal Com #1H NMNM-065397 SHL : 710 FSL & 965 FEL, SESE, Sec. 21 T15S R29E BHL : 1 FSL & 965 FEL, SESE, Sec. 28 T15S R29E Chaves County, NM

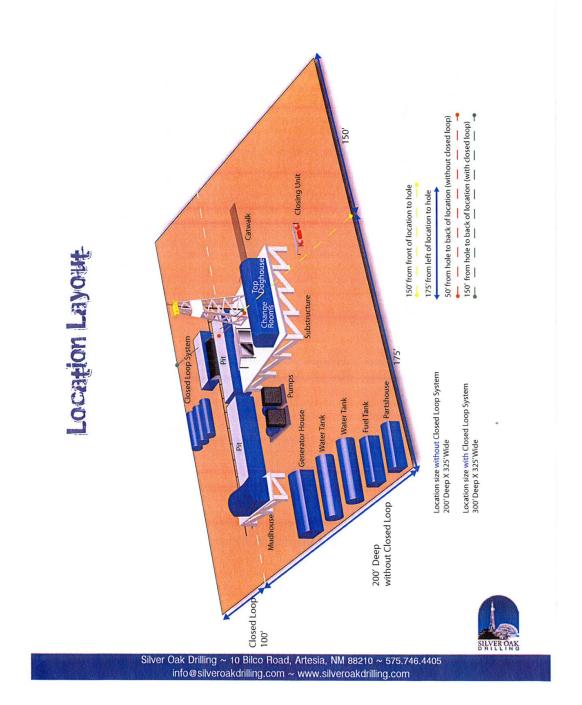
B. There will be no drill stem testing.





Warning sign @ access road entrance

### DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



## Mack Energy Corporation Call List, Chaves County

Artesia (575)	Cellular	Office	
Jim Krogman		748-1288	
Emilio Martinez		748-1288	

### Agency Call List (575)

### Roswell

State Police	622-7200
City Police	624-6770
Sheriff's Office	624-7590
Ambulance	624-7590
Fire Department	624-7590
LEPC (Local Emergency Planning Committee	624-6770
NMOCD	748-1283
Bureau of Land Management	627-0272

### **Emergency Services**

Boots & Coots IWC	.1-800-256-9688 or (281)931-8884
Cudd pressure Control	(915)699-0139 or (915)563-3356
Halliburton	
Par Five	
Flight For Life-Lubbock, TX	
Aerocare-Lubbock, TX	(806)747-8923
Med Flight Air Amb-Albuquerque,	NM(505)842-4433
Lifeguard Air Med Svc. Albuquerqu	ne, NM(505)272-3115

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### Received by OCD: 1/30/2023 10:14:24 AM

Intent	XX	As Drilled
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API #			
Operator Name:		Property Name:	Well Number
MACK ENERGY CO	RPORATION	PARKSVILLE FEDERAL COM	1H

### Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
A	28	15S	29E		100	NORTH	965	EAST	CHAVES
Latitu 32.9	<sup>de</sup> )93791	2			Longitude 104.0278	3963			NAD 83

### Last Take Point (LTP)

UL P	Section 28	Township 15S	Range 29E	Lot	Feet 100	From N/S SOUTH	Feet 965	From E/W EAST	County LEA
Latitude				Longitude				NAD	
32.9798295			104.0279316			83			

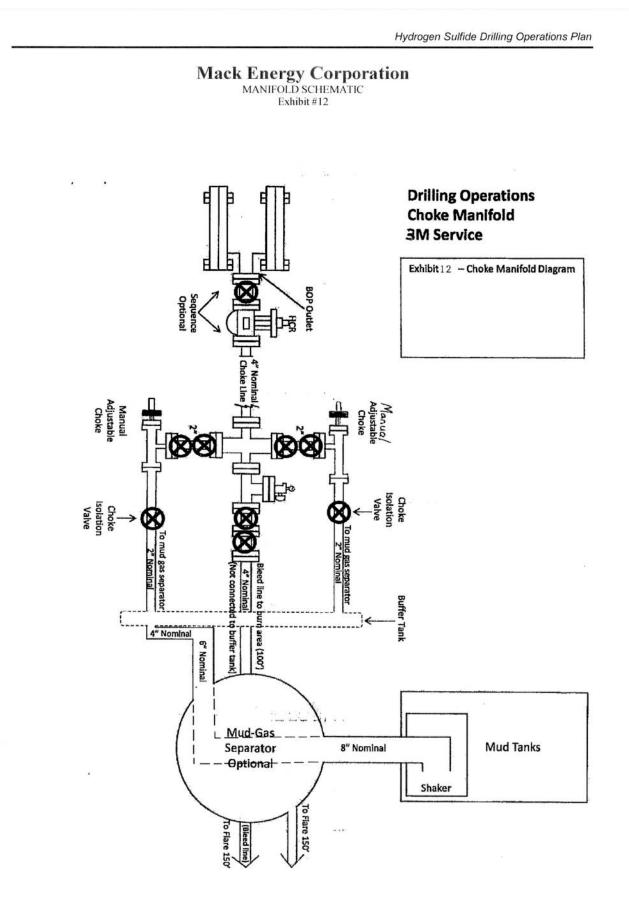
Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

Operator Marine.		
Operator Name:	Property Name:	Well Number
API #		

KZ 06/29/2018

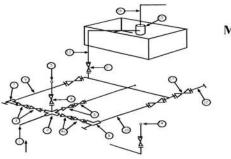


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Page 53 of 56

# Mack Energy Corporation

Exhibit #11 MIMIMUM CHOKE MANIFOLD 3,000, 5,000, and 10,000 PSI Working Pressure 3M will be used 3 MWP - 5 MWP - 10 MWP



Mud Pit

**Reserve Pit** 

\* Location of separator optional

#### **Below Substructure**

#### Mimimum requirements

		3,000 MWP			5,000 MWP			10,000 MWP		
No.		I.D.	Nominal	Rating	I.D.	Nominal	Rating	I.D.	Nominal	Rating
1	Line from drilling Spool		3"	3,000		3"	5,000		3"	10,000
2	Cross 3" x 3" x 3" x 2"			3,000			5,000			
2	Cross 3" x 3" x 3" x 2"									10,000
3	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
4	Valve Gate Plug	1 13/16		3,000	1 13/16		5,000	1 13/16		10,000
4a	Valves (1)	2 1/16		3,000	2 1/16		5,000	2 1/16		10,000
5	Pressure Gauge			3,000			5,000			10,000
6	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
7	Adjustable Choke (3)	2"		3,000	2"		5,000	2"		10,000
8	Adjustable Choke	1"		3,000	1"		5,000	2"		10,000
9	Line		3"	3,000		3"	5,000		3"	10,000
10	Line		2"	3,000		2"	5,000		2"	10,000
11	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000
12	Line		3"	1,000		3"	1,000		3"	2,000
13	Line		3"	1,000		3"	1,000		3"	2,000
14	Remote reading compound Standpipe pressure quage			3,000			5,000			10,000
15	Gas Separator		2' x5'			2' x5'			2' x5'	
16	Line		4"	1,000		4"	1,000		4"	2,000
17	Valve Gate Plug	3 1/8		3,000	3 1/8		5,000	3 1/8		10,000

(1) Only one required in Class 3M

1.

(2) Gate valves only shall be used for Class 10 M

(3) Remote operated hydraulic choke required on 5,000 psi and 10,000 psi for drilling.

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTION

All connections in choke manifold shall be welded, studded, flanged or Cameron clamp of comparable rating.

2. All flanges shall be API 6B or 6BX and ring gaskets shall be API RX or BX. Use only BX for 10 MWP.

3. All lines shall be securely anchored.

4. Chokes shall be equipped with tungsten carbide seats and needles, and replacements shall be available.

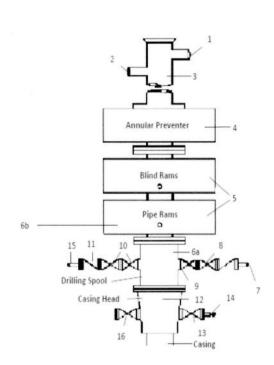
 alternate with automatic chokes, a choke manifold pressure gauge shall be located on the rig floor in conjunction with the standpipe pressure gauge.

6. Line from drilling spool to choke manifold should bee as straight as possible. Lines downstream from chokes shall make turns by large bends or 90 degree bends using bull plugged tees

### Mack Energy Corporation Minimum Blowout Preventer Requirements 5000 psi Working Pressure 13 5/8 inch- 5 MWP 11 Inch - 5 MWP

**Stack Requirements** 

NO.	Items	Min. I.D.	Min. Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



#### **OPTIONAL**

		in the second seco	
16	Flanged Valve	1 13/16	

10.

#### CONTRACTOR'S OPTION TO CONTRACTOR'S OPTION TO FURNISH:

- All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
- Automatic accumulator (80 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
- BOP controls, to be located near drillers' position.
- Kelly equipped with Kelly cock.
- Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
- Kelly saver-sub equipped with rubber casing protector at all times.
- 7. Plug type blowout preventer tester.
- Extra set pipe rams to fit drill pipe in use on location at all times.
- 9. Type RX ring gaskets in place of Type R.

#### MEC TO FURNISH:

1. Bradenhead or casing head and side valves.

2. Wear bushing. If required.

GENERAL NOTES:

- Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager.
- All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
- Controls to be of standard design and each marked, showing opening and closing position
- Chokes will be positioned so as not to hamper or delay changing of choke beans.

Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

- All valves to be equipped with hand-wheels or handles ready for immediate use.
- Choke lines must be suitably anchored.
- Handwheels and extensions to be connected and ready for use.
- Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
- All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted.
- Casinghead connections shall not be used except in case of emergency.
- Does not use kill line for routine fill up operations.

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

Page 56 of 56

CONDITIONS

Action 180578

CONDITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	180578
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Constituent		
Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	1/31/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	1/31/2023
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	1/31/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	1/31/2023
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	1/31/2023