Form 3160-3 (June 2015)		FORM APPROV OMB No. 1004-0 Expires: January 31,	137			
UNITED STATE	S	Expires. January 51,	2018			
DEPARTMENT OF THE I		5. Lease Serial No.				
BUREAU OF LAND MAN.						
APPLICATION FOR PERMIT TO D	RILL OR REENTER	6. If Indian, Allotee or Tribe Name				
1a. Type of work: DRILL R	EENTER	7. If Unit or CA Agreement, N	Name and No.			
1b. Type of Well: Oil Well Gas Well O	ther					
	ingle Zone Multiple Zone	8. Lease Name and Well No.				
2. Name of Operator		9. API Well No.				
		30-005-	64385			
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Explora	atory			
4. Location of Well (Report location clearly and in accordance	with any State requirements *)	11. Sec., T. R. M. or Blk. and	Survey or Area			
At surface						
At proposed prod. zone						
	*	12. County or Parish	13. State			
14. Distance in miles and direction from nearest town or post off	lce*	12. County of Farish	15. State			
15. Distance from proposed*	16. No of acres in lease 17. Spa	cing Unit dedicated to this well				
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./BLI	M/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 o (as applicable)	f Onshore Oil and Gas Order No. 1, and the	e Hydraulic Fracturing rule per 43	CFR 3162.3-3			
1. Well plat certified by a registered surveyor.	4. Bond to cover the operati Item 20 above).	ons unless covered by an existing	bond on file (see			
<ol> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syste</li> </ol>	· · · · · · · · · · · · · · · · · · ·					
SUPO must be filed with the appropriate Forest Service Office		formation and/or plans as may be re-	equested 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 applican applicant to conduct operations thereon.	nt holds legal or equitable title to those righ	ts in the subject lease which would	d entitle the			
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r			tment or agency			
of the United States any false, fictitious or fraudulent statements	or representations as to any matter within it	ts jurisdiction.				
		-				



(Continued on page 2)

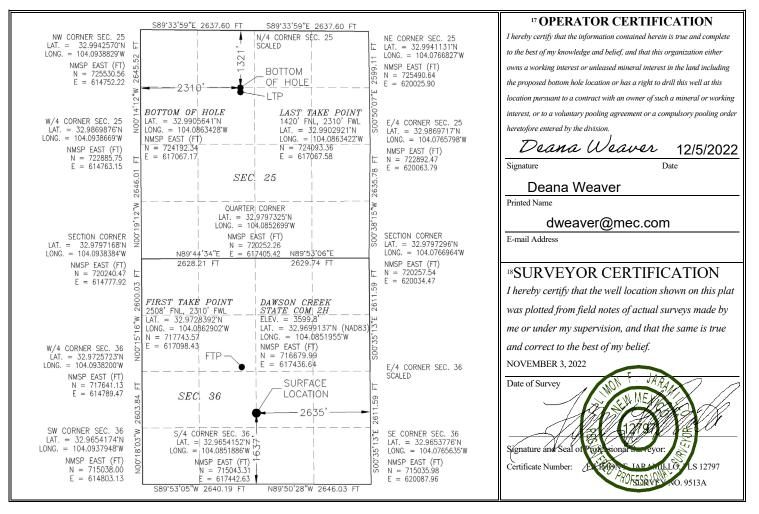
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#### State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT												
-	API Number			<sup>2</sup> Pool Cod	e		<sup>3</sup> Pool Na	me					
30-0	05-643	85		52770		Round Tank; Sa	an Andres						
<sup>4</sup> Property C	Code				<sup>5</sup> Property	Name			<sup>6</sup> Well Number				
322479	9			DAV	<b>WSON CREEK</b>	K STATE COM				2H			
<sup>7</sup> OGRID N	D No. <sup>8</sup> Operator Name <sup>9</sup> Elevation												
13837	837 MACK ENERGY CORPORATION 3599.8												
Surface Location													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County			
J	36	15 S	28 E		1637	SOUTH	2635	EAS	ST	CHAVES			
			пI	Bottom H	Iole 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			
F	25	15 S	28 E		1321	NORTH	2310	WE	ST	CHAVES			
<sup>12</sup> Dedicated Acres	s <sup>13</sup> Joint	or Infill <sup>1</sup>	<sup>4</sup> Consolidatio	n Code		•	<sup>15</sup> Order No.	•					
200													

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.



Rec	eived	bv	OCD:	5/9/2023	11:14:18	AM
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	E		e of New Me nd Natural Res	xico sources Departme	nt	Sub Via	mit Electronically E-permitting
		1220 S	nservation D outh St. Fran ta Fe, NM 87	cis Dr.			
	N	ATURAL GA	AS MANA	GEMENT PI	LAN		
Гhis Natural Gas Manag	ement Plan m	ust be submitted wi	th each Applica	tion for Permit to D	Drill (A	PD) for a new o	or recompleted well
			<u>1 – Plan D</u> fective May 25				
I. Operator: <u>Mack E</u>	Energy Corpo	oration	OGRID:	013837		Date:	/_01/2022
II. Type: 🕱 Original 🗆	] Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D(	6)(b) N	MAC 🗆 Other	
f Other, please describe	:						
<b>II. Well(s):</b> Provide the recompleted from a since recompleted from a					vells pr	roposed to be di	filled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		icipated MCF/D I	Anticipated Produced Water BBL/D
Dawson Creek State Com 2H		J Sec 36 T15S R28	3E 1637 FSL 2635 FEL	100	100	1	,000
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the	following informat	tion for each nev	w or recompleted w	ell or s		27.9(D)(1) NMAC] osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement	Date	Initial Flow Back Date	First Production Date
Dawson Creek State Com 2H		4/1/2023	4 /20/2023	7/31/2023	3	7/31/2023	7/1/2023
VI. Separation Equipm VII. Operational Pract Subsection A through F	ices: 🔀 Attac	h a complete descr	1				
VIII. Best Managemen during active and planne			te description of	f Operator's best m	anager	ment practices t	o minimize venting

#### 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: 12/1/2022										
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.



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

APD ID: 10400089470

**Operator Name: MACK ENERGY CORPORATION** 

Well Name: DAWSON CREEK STATE COM

Well Type: OIL WELL

Well Number: 2H Well Work Type: Drill

Submission Date: 01/16/2023

Highlighted data reflects the most recent changes

05/08/2023

Drilling Plan Data Report

Show Final Text

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

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9595341	RUSTLER	3597	140	140	ALLUVIUM	NONE	N
9595342	TOP OF SALT	3243	354	354	SALT	NONE	N
9595343	BASE OF SALT	3017	580	580	SALT	NONE	N
9595611	YATES	3007	590	590	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595612	SEVEN RIVERS	2779	818	818	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595613	QUEEN	2281	1316	1316	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595614	GRAYBURG	1867	1730	1730	ANHYDRITE, DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
9595615	SAN ANDRES	1530	2067	2067	ANHYDRITE, DOLOMITE	NATURAL GAS, OIL	Y

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

Pressure Rating (PSI): 3M

Rating Depth: 10144

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 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 mins without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1,366psig (0.052\*2,856'TVD\*9.2) less than 2900 bottom hole pressure. Well test to 2000 psi for 30mins.

#### **Choke Diagram Attachment:**

3M\_Choke\_Diagram\_20221201102508.pdf

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

3M\_BOP\_20221201102528.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: DAWSON CREEK STATE COM

Well Number: 2H

3M\_Choke\_Diagram\_20221201102508.pdf

3M\_BOP\_20221201102528.pdf

#### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	350	0	350	3597	3247	350	J-55	48	ST&C	4.23 5	4.67 2	BUOY	30.2 11	BUOY	4.74
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	1200	0	1200	3597	2397	1200	J-55	36	LT&C	3.23 7	7.04	BUOY	10.7 68	BUOY	7.04
3	PRODUCTI ON	8.75	7.0	NEW	API	N	0	2000	0	2000	3597	1597	2000	HCP -110	26	LT&C	7.12 6	3.31 7	BUOY	5.53 2	BUOY	3.31 7
4	PRODUCTI ON	8.75	7.0	NEW	API	N	2000	3050	2000	2837	1597	760	1050	HCP -110	26	BUTT	4.72 6	3.31 7	BUOY	6.80 9	BUOY	3.31 7
5	PRODUCTI ON	8.75	5.5	NEW	API	N	3050	10144	2837	2856	760	741	7094	HCP -110	17	BUTT	5.61 6	3.54 7	BUOY	5.56 1	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\_20230112105358.pdf

Operator Name: MACK ENERGY CORPORATION

Well Name: DAWSON CREEK STATE COM

Well Number: 2H

#### **Casing Attachments**

Casing ID: 2 String Inspection Document:	INTERMEDIATE
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and	Vorksheet(s):
Intermediate_Csg_20230112	05449.pdf
Casing ID: 3 String	PRODUCTION
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and	Vorksheet(s):
Production_Csg_2023011210	5549.pdf
Casing ID: 4 String	PRODUCTION
Inspection Document:	
Spec Document:	
Tapered String Spec:	
Casing Design Assumptions and	Vorksheet(s):
Production_Csg_2023011210	5702.pdf

.

Well Name: DAWSON CREEK STATE COM

Well Number: 2H

Casing ID:	5	String	PRODUCTION

**Inspection Document:** 

Spec Document:

**Tapered String Spec:** 

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

Production\_Csg\_20230112105823.pdf

Section	4 - Ce	emen	t								
String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
PRODUCTION	Lead		0	0	0	0	0	0	0	0	0

PRODUCTION	Lead	0	0	0	0	0	0	0	0	0

SURFACE	Lead	0	350	320	1.61	14.4	244		RFC+12% PF53+2%PF1+5p ps PF42+.125ppsPF 29	20bbls Gelled Water 50sx of 11# scavenger cement
SURFACE	Tail	0	350	200	1.34	14.8	244	100	Class C+1%PF1	20bbls gelled water 50sx of 11# scavenger cement
INTERMEDIATE	Lead	0	1200	285	1.72	13.5	375.8	100	Class C+4%PF20+.4pp sPF44+.125pps PF29	20bbls Gelled Water 50sx of 11# Scavenger Cement
INTERMEDIATE	Tail	0	1200	200	1.34	14.8	375.8	100	Class C+1%PF1	20bbls Gelled Water 50sx of 11# Scavenger Cement
PRODUCTION	Lead	0	1014 4	250	2.82	11.5	2562	35	50/50 POZ/C+10%PF2 0+5%	20bbls Gelled Water 20bbls Chemical Wash 50sx of 11#

#### Operator Name: MACK ENERGY CORPORATION

### Well Name: DAWSON CREEK STATE COM

#### Well Number: 2H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
										PF44+.5%PF79+ 3ppsPF42+.4pps PF45+.125ppsPF 29	Scavenger Cement
PRODUCTION	Tail		0	1014 4	2590	1.34	14.2	2562	35	5%PF44+2%PF2 0+.2%PF13+.2%	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)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	350	SPUD MUD	8.5	10	74.8	0.1	11		12000	15	
350	1200	LSND/GEL	8.3	9.2	74.8	0.1	11		12000	15	
1200	1014 4	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 1366 (0.052*2856'*9.2ppg)

**Operator Name: MACK ENERGY CORPORATION** 

Well Name: DAWSON CREEK STATE COM

Well Number: 2H

#### 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: 1366

Anticipated Surface Pressure: 719

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:

KOP\_20221201103924.pdf Natural\_Gas\_Management\_Plan\_20221201103929.pdf Dawson\_Creek\_State\_Com\_2H\_Preliminary\_Horizontal\_Plan\_1\_20221207095258.pdf Escape\_Route\_20230112115249.pdf Surface\_Plan\_20230112142804.pdf H2S\_Plan\_20230112142810.pdf

#### Other proposed operations facets description:

#### Other proposed operations facets attachment:

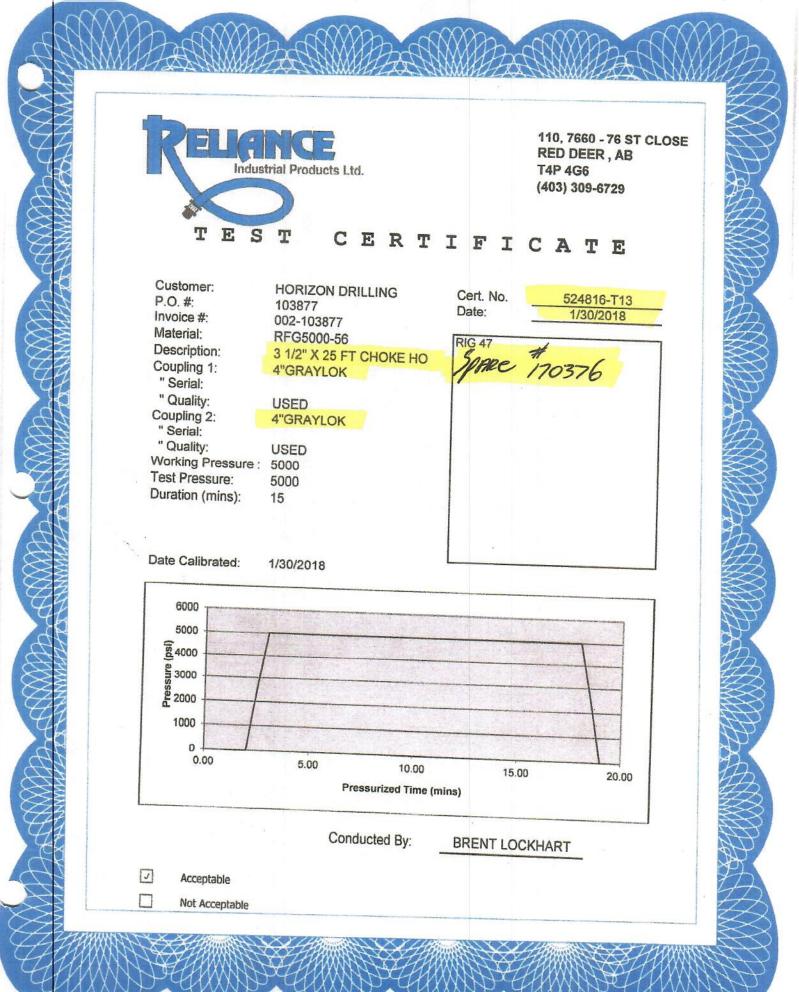
Other Variance attachment:

Cactus\_Wellhead\_installation\_Procedure\_20221201104018.pdf Flex\_Hose\_Cert\_20221201104159.pdf Operator Name: MACK ENERGY CORPORATION

Well Name: DAWSON CREEK STATE COM

Well Number: 2H

Variance\_request\_20221201104208.pdf



Page 16 of 34

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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.

•

Plan	Round Tan Dawson Cr 1		Com #2H	County	feet, °/100ft Chaves New Mexico USA		Vertic	cal Section Azin Calculation Met	ecember 02, 2022 nuth 359.72 thod Minimum Cu pase Access	-
Location			35 FWL Sectio 650 FWL Sec			Map Zone	UTM	Lat	Long Ref	
Site Slot Name Well Number Project	9 9 7 2H		UWI API MD/TVD Re					Surface Long Surface Lat Global Z Ref KB Local North Ref Grid		
DIRECTIONA	L WELL PL	AN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD
** TIE (at MD	$= 2004\ 00)$	dog	ft	ft	ft	°/100ft	ft	ft	ft	4
2004.00	0.00	0.0	2004.00	0.00	0.00		0.00	1921010.10	11968868.00	1613.80
2050.00	0.00	0.0	2050.00	0.00	0.00	0.00	0.00	1921010.10	11968868.00	1567.8
2100.00	0.00	0.0	2100.00	0.00	0.00	0.00	0.00	1921010.10	11968868.00	1517.8
** KOP 8 DEG				0.00	0.00	0.00	5.00	1021010.10		.017.0
2104.00	0.00	0.0	2104.00	0.00	0.00	0.00	0.00	1921010.10	11968868.00	1513.8
2150.00	3.68	330.7	2149.97	1.29	-0.72	8.00	1.29	1921009.38	11968869.29	1467.8
2200.00	7.68	330.7	2199.71	5.60	-3.14	8.00	5.62	1921006.96	11968873.60	1418.0
2250.00	11.68	330.7	2248.99	12.93	-7.26	8.00	12.97	1921000.90	11968880.93	1368.8
2300.00	15.68	330.7	2297.56	23.24	-13.04	8.00	23.31	1920997.06	11968891.24	1320.2
2350.00	19.68	330.7	2345.19	36.48	-20.47	8.00	36.58	1920989.63	11968904.48	1272.6
2400.00	23.68	330.7	2391.65	52.59	-29.51	8.00	52.73	1920980.59	11968920.59	1226.1
2450.00	27.68	330.7	2436.70	71.48	-40.11	8.00	71.67	1920969.99	11968939.48	1181.1
2500.00	31.68	330.7	2480.13	93.06	-52.23	8.00	93.32	1920957.87	11968961.06	1137.6
2550.00	35.68	330.7	2521.73	117.24	-65.79	8.00	117.56	1920944.31	11968985.24	1096.0
2600.00	39.68	330.7	2561.29	143.89	-80.75	8.00	144.28	1920929.35	11969011.89	1056.5
2650.00	43.68	330.7	2598.63	172.88	-97.01	8.00	173.35	1920913.09	11969040.88	1019.1
2700.00	47.68	330.7	2633.55	204.07	-114.52	8.00	204.62	1920895.58	11969072.07	984.2
2750.00	51.68	330.7	2665.90	237.30	-133.17	8.00	237.95	1920876.93	11969105.30	951.9
** 55 DEGREE				207.00	-100.17	0.00	201.00	1020070.00	11000100.00	001.0
2791.50	55.00	330.7	2690.67	266.33	-149.46	8.00	267.06	1920860.64	11969134.33	927.1
2800.00	55.00	330.7	2695.55	272.40	-152.87	0.00	273.15	1920857.23	11969140.40	922.2
2850.00	55.00	330.7	2724.23	308.12	-172.91	0.00	308.96	1920837.19	11969176.12	893.5
0000.00						0.00				004.0
2900.00	55.00	330.7	2752.91	343.84	-192.95	0.00	344.78	1920817.15	11969211.84	864.8
2950.00	55.00	330.7	2781.59	379.56	-213.00	0.00	380.59	1920797.10	11969247.56	836.2
*** 10 DEGREE	-		-	400.00	000.00	0.00	440.00	1000700 47	11000077.00	040.4
2991.50	55.00	330.7	2805.39	409.20	-229.63	0.00	410.32	1920780.47	11969277.20	812.4
3000.00	55.62	331.4	2810.23	415.32	-233.02	10.00	416.45	1920777.08	11969283.32	807.5
3050.00	59.34	335.4	2837.11	453.01	-251.86	10.00	454.23	1920758.24	11969321.01	780.6
3100.00	63.16	339.0	2861.16	493.42	-268.81	10.00	494.72	1920741.29	11969361.42	756.6
3150.00	67.08	342.5	2882.20	536.23	-283.73	10.00	537.61	1920726.37	11969404.23	735.6
3200.00	71.07	345.7	2900.06	581.13	-296.51	10.00	582.58	1920713.59	11969449.13	717.7
3250.00	75.11	348.8	2914.60	627.78	-307.06	10.00	629.27	1920703.04	11969495.78	703.2
3300.00	79.19	351.8	2925.73	675.81	-315.28	10.00	677.34	1920694.82	11969543.81	692.0
3350.00	83.29	354.6	2933.34	724.86	-321.13	10.00	726.42	1920688.97	11969592.86	684.4
3400.00	87.42	357.5	2933.34 2937.39	774.57	-324.55	10.00	720.42	1920685.55	11969642.57	680.4
3400.00 *** LANDING P				114.01	-524.00	10.00	110.14	1920000.00	11909042.07	000.4
3439.76	90.70	359.7	2938.04	814.30	-325.52	10.00	815.89	1920684.58	11969682.30	679.7
0700.10	90.70 90.70	359.7 359.7	2938.04 2937.92	824.54	-325.52 -325.57	0.00	826.12	1920684.58	11969692.54	679.8

.

		ık	Com #2H	County	feet, °/100ft Chaves New Mexico USA			cal Section Azin Calculation Met	ecember 02, 2022 nuth 359.72 thod Minimum Cu pase Access	-
Locatio			35 FWL Secti 650 FWL Sec			Map Zor	ne UTM	Lat Long Ref		
Sit						Surface	<b>X</b> 1921010.1	Surfa	ace Long	
Slot Nam	e		UWI			Surface	Y 11968868	Su	rface Lat	
Nell Numbe	r 2H		API			Surface	<b>Z</b> 3617.8	Glo	bal Z Ref KB	
Projec	:t		MD/TVD R	ef KB	G	round Lev	el 3599.8	Local N	North Ref Grid	
DIRECTION/	AL WELL P	LAN								
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD
<del>ب</del> 3500.00	90.70	359.7	<del>ہ</del> 2937.31	674.54	-325.82	°/100ft 0.00	<del>ہ</del> 876.12	ft 1920684.28	ft 11969742.54	680.4
3550.00	90.70	359.7	2936.70	924.53	-326.06	0.00	926.11	1920684.04	11969792.53	681.1
3600.00	90.70 90.70	359.7 359.7	2936.70	924.53 974.53	-326.06	0.00	926.11 976.11	1920683.80	11969842.53	681.7
				974.53 1024.52						
3650.00	90.70 00.70	359.7	2935.48		-326.55	0.00	1026.11	1920683.55	11969892.52	682.3
3700.00	90.70	359.7	2934.87	1074.52	-326.79	0.00	1076.10	1920683.31	11969942.52	682.9
3750.00	90.70	359.7	2934.25	1124.51	-327.04	0.00	1126.10	1920683.06	11969992.51	683.
3800.00	90.70	359.7	2933.64	1174.51	-327.28	0.00	1176.09	1920682.82	11970042.51	684.
3850.00	90.70	359.7	2933.03	1224.51	-327.53	0.00	1226.09	1920682.57	11970092.51	684.
3900.00	90.70	359.7	2932.42	1274.50	-327.77	0.00	1276.09	1920682.33	11970142.50	685.3
3950.00	90.70	359.7	2931.81	1324.50	-328.01	0.00	1326.08	1920682.09	11970192.50	685.9
4000.00	90.70	359.7	2931.20	1374.49	-328.26	0.00	1376.08	1920681.84	11970242.49	686.0
					020.20	0100				
4050.00	90.70	359.7	2930.59	1424.49	-328.50	0.00	1426.08	1920681.60	11970292.49	687.2
4100.00	90.70	359.7	2929.98	1474.48	-328.75	0.00	1476.07	1920681.35	11970342.48	687.8
4150.00	90.70	359.7	2929.37	1524.48	-328.99	0.00	1526.07	1920681.11	11970392.48	688.4
4200.00	90.70	359.7	2928.76	1574.47	-329.24	0.00	1576.07	1920680.86	11970442.47	689.0
4250.00	90.70	359.7	2928.15	1624.47	-329.48	0.00	1626.06	1920680.62	11970492.47	689.
4300.00	90.70	359.7	2927.54	1674.47	-329.72	0.00	1676.06	1920680.38	11970542.47	690.2
4350.00	90.70	359.7	2926.92	1724.46	-329.97	0.00	1726.05	1920680.13	11970592.46	690.8
4400.00	90.70	359.7	2926.31	1774.46	-330.21	0.00	1776.05	1920679.89	11970642.46	691.4
4450.00	90.70 90.70	359.7	2920.31	1824.45	-330.21	0.00	1826.05	1920679.64	11970692.45	692. <sup>-</sup>
4500.00	90.70 90.70	359.7 359.7	2925.70	1874.45	-330.40	0.00	1826.05	1920679.04	11970092.45	692. 692.
4500.00	90.70	359.7	2925.09	10/4.40	-330.70	0.00	10/0.04	1920079.40	11970742.45	692.
4550.00	90.70	359.7	2924.48	1924.44	-330.95	0.00	1926.04	1920679.15	11970792.44	693.
4600.00	90.70	359.7	2923.87	1974.44	-331.19	0.00	1976.04	1920678.91	11970842.44	693.
4650.00	90.70	359.7	2923.26	2024.44	-331.44	0.00	2026.03	1920678.66	11970892.44	694.
4700.00	90.70	359.7	2922.65	2074.43	-331.68	0.00	2076.03	1920678.42	11970942.43	695. <sup>-</sup>
4750.00	90.70	359.7	2922.04	2124.43	-331.92	0.00	2126.02	1920678.18	11970992.43	695.
4800.00	90.70	359.7	2921.43	2174.42	-332.17	0.00	2176.02	1920677.93	11971042.42	696.3
4850.00	90.70 90.70	359.7 359.7	2921.43	2174.42	-332.17	0.00	2170.02	1920677.69	11971042.42	696.9
4850.00	90.70 90.70	359.7 359.7	2920.82	2224.42	-332.41	0.00	2226.02 2276.01	1920677.69	11971092.42	696.9 697.0
4900.00 4950.00	90.70 90.70		2920.20 2919.59					1920677.44	11971142.41	697.0 698.2
4950.00 5000.00	90.70 90.70	359.7 359.7	2919.59 2918.98	2324.41 2374.41	-332.90	0.00 0.00	2326.01 2376.01	1920677.20	11971192.41	698.8 698.8
5000.00	90.70	559.7	2910.90	2014.41	-333.15	0.00	20/0.01	19200/0.93	113/1242.41	090.0
5050.00	90.70	359.7	2918.37	2424.40	-333.39	0.00	2426.00	1920676.71	11971292.40	699.4
5100.00	90.70	359.7	2917.76	2474.40	-333.63	0.00	2476.00	1920676.47	11971342.40	700.0
5150.00	90.70	359.7	2917.15	2524.39	-333.88	0.00	2525.99	1920676.22	11971392.39	700.
5200.00	90.70	359.7	2916.54	2574.39	-334.12	0.00	2575.99	1920675.98	11971442.39	700.
5250.00 5250.00	90.70 90.70	359.7	2910.34	2624.38	-334.12 -334.37	0.00	2625.99	1920675.73	11971492.38	701.2
5200.00	50.70	000.1	2010.00	2027.00	007.07	0.00	2020.00	1020010.10	11071-02.00	701.0
5300.00	90.70	359.7	2915.32	2674.38	-334.61	0.00	2675.98	1920675.49	11971542.38	702.
2 of 5					SES v5	.79			WWW	makinhole

			Daws	on Cree	k State	e Com	#2H, Pla	an 1				
Operator					eet, °/100ft	13:55 Friday, December 02, 2022 Page 3 of 5 Vertical Section Azimuth 359.72						
	Round Tan			County (								
Well Name		reek State	Com #2H		New Mexico		Survey		hod Minimum Cu	irvature		
Plan	1			Country (	JSA			Datab	ase Access			
Locatior				ion 36-T15S-R ction 25-T15S		Map Zor	ne UTM	Lat I	∟ong Ref			
Site	)					Surface	<b>X</b> 1921010.1	Surfa	ice Long			
Slot Name	•		UWI			Surface	<b>Y</b> 11968868	Su	rface Lat			
Well Number	<b>r</b> 2H		API			Surface	<b>Z</b> 3617.8	Glo	bal Z Ref KB			
Projec	t		MD/TVD R	ef KB	G	round Lev	el 3599.8	Local N	lorth Ref Grid			
DIRECTIONAL WELL PLAN												
MD*	INC*	AZI*	TVD*	<b>N</b> *	<b>E</b> *	DLS*	V. S.*	MapE*	-	SysTVD		
5350.00	90.70	359.7	2914.71	2724.38	-334.86	<u>°/100ft</u> 0.00	<del>۴</del> 2725.98	1920675.24	ft 11971592.38	703.0		
5400.00	90.70	359.7	2914.10	2774.37	-335.10	0.00	2775.98	1920675.00	11971642.37	703.7		
5450.00	90.70	359.7	2913.49	2824.37	-335.34	0.00	2825.97	1920674.76	11971692.37	704.3		
5500.00	90.70	359.7	2912.87	2874.36	-335.59	0.00	2875.97	1920674.51	11971742.36	704.9		
				201 1100		0.00						
5550.00	90.70	359.7	2912.26	2924.36	-335.83	0.00	2925.96	1920674.27	11971792.36	705.5		
5600.00	90.70	359.7	2911.65	2974.35	-336.08	0.00	2975.96	1920674.02	11971842.35	706.1		
5650.00	90.70	359.7	2911.04	3024.35	-336.32	0.00	3025.96	1920673.78	11971892.35	706.7		
5700.00	90.70	359.7	2910.43	3074.35	-336.57	0.00	3075.95	1920673.53	11971942.35	707.3		
5750.00	90.70	359.7	2909.82	3124.34	-336.81	0.00	3125.95	1920673.29	11971992.34	707.9		
5000.00	00 70	050 7	0000.04	0474.04	007.05	0.00	0475.05	1000070.05	44070040.04	700 5		
5800.00	90.70	359.7	2909.21	3174.34	-337.05	0.00	3175.95	1920673.05	11972042.34	708.5		
5850.00	90.70	359.7	2908.60	3224.33	-337.30	0.00	3225.94	1920672.80	11972092.33	709.2		
5900.00	90.70	359.7	2907.99	3274.33	-337.54	0.00	3275.94	1920672.56	11972142.33	709.8		
5950.00	90.70	359.7	2907.38	3324.32	-337.79	0.00	3325.93	1920672.31	11972192.32	710.4		
6000.00	90.70	359.7	2906.77	3374.32	-338.03	0.00	3375.93	1920672.07	11972242.32	711.0		
6050.00	90.70	359.7	2906.16	3424.31	-338.28	0.00	3425.93	1920671.82	11972292.31	711.6		
6100.00	90.70	359.7	2905.54	3474.31	-338.52	0.00	3475.92	1920671.58	11972342.31	712.2		
6150.00	90.70	359.7	2904.93	3524.31	-338.76	0.00	3525.92	1920671.34	11972392.31	712.8		
6200.00	90.70	359.7	2904.32	3574.30	-339.01	0.00	3575.92	1920671.09	11972442.30	713.4		
6250.00	90.70	359.7	2903.71	3624.30	-339.25	0.00	3625.91	1920670.85	11972492.30	714.0		
6300.00	90.70	359.7	2903.10	2674 20	-339.50	0.00	3675.91	1020670 60	11072542.20	714.7		
				3674.29		0.00		1920670.60	11972542.29 11972592.29			
6350.00	90.70	359.7	2902.49	3724.29	-339.74	0.00	3725.90	1920670.36		715.3		
6400.00	90.70	359.7	2901.88	3774.28	-339.99	0.00	3775.90	1920670.11	11972642.28	715.9		
6450.00 6500.00	90.70 90.70	359.7 359.7	2901.27 2900.66	3824.28 3874.28	-340.23 -340.48	0.00 0.00	3825.90 3875.89	1920669.87 1920669.62	11972692.28 11972742.28	716.5 717.1		
0000.00	30.70	000.1	2300.00	5074.20	-0-0.40	0.00	3073.03	1320003.02	11372742.20	7 17.1		
6550.00	90.70	359.7	2900.05	3924.27	-340.72	0.00	3925.89	1920669.38	11972792.27	717.7		
6600.00	90.70	359.7	2899.44	3974.27	-340.96	0.00	3975.89	1920669.14	11972842.27	718.3		
6650.00	90.70	359.7	2898.83	4024.26	-341.21	0.00	4025.88	1920668.89	11972892.26	718.9		
6700.00	90.70	359.7	2898.21	4074.26	-341.45	0.00	4075.88	1920668.65	11972942.26	719.5		
6750.00	90.70	359.7	2897.60	4124.25	-341.70	0.00	4125.87	1920668.40	11972992.25	720.2		
6800.00	90.70	359.7	2896.99	4174.25	-341.94	0.00	4175.87	1920668.16	11973042.25	720.8		
6850.00	90.70 90.70	359.7	2896.38	4224.25	-342.19	0.00	4225.87	1920667.91	11973092.25	720.0		
6900.00	90.70	359.7	2895.77	4274.24	-342.43	0.00	4275.86	1920667.67	11973142.24	722.0		
6950.00	90.70	359.7	2895.16	4324.24	-342.67	0.00	4325.86	1920667.43	11973192.24	722.6		
7000.00	90.70	359.7	2894.55	4374.23	-342.92	0.00	4375.86	1920667.18	11973242.23	723.2		
7050.00	90.70	359.7	2893.94	4424.23	-343.16	0.00	4425.85	1920666.94	11973292.23	723.8		
7100.00	90.70	359.7	2893.33	4474.22	-343.41	0.00	4475.85	1920666.69	11973342.22	724.4		
7150.00	90.70	359.7	2892.72	4524.22	-343.65	0.00	4525.84	1920666.45	11973392.22	725.0		

age 3 of 5

			Daws	on Cree	ek State	e Com	#2H, Pla	an 1			
Operator Field Well Name Plan	Round Tan Dawson Cr	k	Com #2H	County (	New Mexico		Vertie	cal Section Azin Calculation Met	ecember 02, 2022 huth 359.72 hod Minimum Cu base Access	U U	
Location				Section 36-T15S-R28E Map Zone UTM Lat Long Ref							
Site		21 FNL & 1	650 FWL Sec	ction 25-T15S	-R28E	Surface	¥ 10010101	C fr			
Slot Name			UWI				<b>X</b> 1921010.1 <b>Y</b> 11968868		ace Long rface Lat		
Well Number			API				<b>Z</b> 3617.8		bal Z Ref KB		
Projec			MD/TVD R	ef KB	G		el 3599.8		North Ref Grid		
DIRECTIONA					_						
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*	
ft 7200.00	90.70	359.7	ft 2892.11	4574.22	-343.90	°/100 <del>ft</del> 0.00	4575.84	1920666.20	ft 11973442.22	725.69	
7250.00	90.70 90.70	359.7 359.7	2891.50	4624.22	-343.90	0.00	4625.84	1920665.96	11973492.21	726.31	
7200.00	50.70	000.7	2001.00	4024.21	-011.11	0.00	4020.04	1020000.00	11070402.21	720.01	
7300.00	90.70	359.7	2890.88	4674.21	-344.38	0.00	4675.83	1920665.72	11973542.21	726.92	
7350.00	90.70	359.7	2890.27	4724.20	-344.63	0.00	4725.83	1920665.47	11973592.20	727.53	
7400.00	90.70	359.7	2889.66	4774.20	-344.87	0.00	4775.83	1920665.23	11973642.20	728.14	
7450.00	90.70	359.7	2889.05	4824.19	-345.12	0.00	4825.82	1920664.98	11973692.19	728.75	
7500.00	90.70	359.7	2888.44	4874.19	-345.36	0.00	4875.82	1920664.74	11973742.19	729.36	
7550.00	90.70	359.7	2887.83	4924.18	-345.61	0.00	4925.82	1920664.49	11973792.18	729.97	
7600.00	90.70 90.70	359.7 359.7	2887.22	4924.18	-345.85	0.00	4925.82	1920664.25	11973842.18	730.58	
7650.00	90.70 90.70	359.7 359.7	2886.61	4974.18 5024.18	-346.09	0.00	5025.81	1920664.01	11973892.18	731.19	
7700.00	90.70 90.70	359.7 359.7	2886.00	5024.18 5074.17	-346.34	0.00	5075.80	1920663.76	11973942.17	731.1	
7750.00	90.70 90.70	359.7 359.7	2885.39	5124.17	-346.58	0.00	5125.80	1920663.52	11973992.17	732.4	
7730.00	90.70	559.7	2003.39	5124.17	-340.30	0.00	5125.00	1920003.52	11973992.17	752.4	
7800.00	90.70	359.7	2884.78	5174.16	-346.83	0.00	5175.80	1920663.27	11974042.16	733.02	
7850.00	90.70	359.7	2884.16	5224.16	-347.07	0.00	5225.79	1920663.03	11974092.16	733.64	
7900.00	90.70	359.7	2883.55	5274.15	-347.32	0.00	5275.79	1920662.78	11974142.15	734.25	
7950.00	90.70	359.7	2882.94	5324.15	-347.56	0.00	5325.79	1920662.54	11974192.15	734.86	
8000.00	90.70	359.7	2882.33	5374.15	-347.81	0.00	5375.78	1920662.30	11974242.15	735.47	
8050.00	90.70	359.7	2881.72	5424.14	-348.05	0.00	5425.78	1920662.05	11974292.14	736.08	
8100.00	90.70	359.7	2881.11	5474.14	-348.29	0.00	5475.77	1920661.81	11974342.14	736.69	
8150.00	90.70	359.7	2880.50	5524.13	-348.54	0.00	5525.77	1920661.56	11974392.13	737.30	
8200.00	90.70	359.7	2879.89	5574.13	-348.78	0.00	5575.77	1920661.32	11974442.13	737.9	
8250.00	90.70	359.7	2879.28	5624.12	-349.03	0.00	5625.76	1920661.07	11974492.12	738.52	
8300.00	90.70	359.7	2878.67	5674.12	-349.27	0.00	5675.76	1920660.83	11974542.12	739.13	
8350.00	90.70	359.7	2878.06	5724.12	-349.52	0.00	5725.76	1920660.58	11974592.12	739.74	
8400.00	90.70	359.7	2877.45	5774.11	-349.76	0.00	5775.75	1920660.34	11974642.11	740.3	
8450.00	90.70	359.7	2876.83	5824.11	-350.00	0.00	5825.75	1920660.10	11974692.11	740.97	
8500.00	90.70	359.7	2876.22	5874.10	-350.25	0.00	5875.74	1920659.85	11974742.10	741.58	
8550.00	90.70	359.7	2875.61	5924.10	-350.49	0.00	5925.74	1920659.61	11974792.10	742.19	
8600.00	90.70	359.7	2875.00	5974.09	-350.74	0.00	5975.74	1920659.36	11974842.09	742.80	
8650.00	90.70	359.7	2874.39	6024.09	-350.98	0.00	6025.73	1920659.12	11974892.09	743.41	
8700.00	90.70	359.7	2873.78	6074.09	-351.23	0.00	6075.73	1920658.87	11974942.09	744.02	
8750.00	90.70	359.7	2873.17	6124.08	-351.47	0.00	6125.73	1920658.63	11974992.08	744.63	
8800.00	90.70	359.7	2872.56	6174.08	-351.71	0.00	6175.72	1920658.39	11975042.08	745.24	
8850.00	90.70	359.7	2871.95	6224.07	-351.96	0.00	6225.72	1920658.14	11975092.07	745.85	
8900.00	90.70	359.7	2871.34	6274.07	-352.20	0.00	6275.71	1920657.90	11975142.07	746.46	
8950.00	90.70	359.7	2870.73	6324.06	-352.45	0.00	6325.71	1920657.65	11975192.06	747.07	
	90.70	359.7	2870.12	6374.06	-352.69	0.00	6375.71	1920657.41	11975242.06	747.68	

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			Daws	on Cre	ek State	e Com	#2H, Pla	an 1			
	Mack Ener				feet, °/100ft				ecember 02, 2022	Page 5 of	
Field	Round Tan	k			Chaves		Vertic	al Section Azin	nuth 359.72		
Well Name	Dawson Cr	eek State	Com #2H	State	New Mexico		Survey	Calculation Met	hod Minimum Cu	irvature	
Plan	1			Country	USA			Datab	ase Access		
Location         SL: 1637 FSL & 2635 FWL Section 36-T15S-R28E         Map Zone         UTM         Lat Long Ref           BHL:         1321 FNL & 1650 FWL Section 25-T15S-R28E         BHL: 1321 FNL & 1650 FWL Section 25-T15S-R28E         Map Zone         UTM         Lat Long Ref								Long Ref			
Site	e					Surface	<b>X</b> 1921010.1	Surfa	ace Long		
Slot Name	e		UWI			Surface	<b>Y</b> 11968868	Su	rface Lat		
Well Numbe	<b>r</b> 2H		API			Surface	<b>Z</b> 3617.8	Glo	bal Z Ref KB		
Projec	t		MD/TVD R	ef KB	G	round Lev	<b>el</b> 3599.8	Local N	lorth Ref Grid		
DIRECTIONAL WELL PLAN											
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD	
9050.00	90.70	359.7	2869.50	6424.06	-352.94	°/100ft 0.00	6425.70	1920657.16	11975292.06	748.3	
9100.00	90.70	359.7	2868.89	6474.05	-353.18	0.00	6475.70	1920656.92	11975342.05	748.9	
9150.00	90.70	359.7	2868.28	6524.05	-353.42	0.00	6525.70	1920656.68	11975392.05	749.5	
9200.00	90.70	359.7	2867.67	6574.04	-353.67	0.00	6575.69	1920656.43	11975442.04	750.1	
9250.00	90.70	359.7	2867.06	6624.04	-353.91	0.00	6625.69	1920656.19	11975492.04	750.7	
0200.00	00.70	359.7	20000 45	6674.02	254 46	0.00	6675 69	1000655.04	11075540.02	751 0	
9300.00	90.70 90.70	359.7 359.7	2866.45 2865.84	6674.03 6724.03	-354.16 -354.40	0.00 0.00	6675.68	1920655.94	11975542.03 11975592.03	751.3 751.9	
9350.00							6725.68	1920655.70			
9400.00 9450.00	90.70 90.70	359.7 359.7	2865.23 2864.62	6774.02 6824.02	-354.65 -354.89	0.00 0.00	6775.68 6825.67	1920655.45 1920655.21	11975642.02 11975692.02	752.5 753.1	
9500.00	90.70	359.7	2864.01	6874.02	-355.13	0.00	6875.67	1920654.97	11975742.02	753.7	
9550.00	90.70	359.7	2863.40	6924.01	-355.38	0.00	6925.67	1920654.72	11975792.01	754.4	
9600.00	90.70	359.7	2862.79	6974.01	-355.62	0.00	6975.66	1920654.48	11975842.01	755.0	
9650.00	90.70	359.7	2862.17	7024.00	-355.87	0.00	7025.66	1920654.23	11975892.00	755.6	
9700.00	90.70	359.7	2861.56	7074.00	-356.11	0.00	7075.65	1920653.99	11975942.00	756.2	
9750.00	90.70	359.7	2860.95	7123.99	-356.36	0.00	7125.65	1920653.74	11975991.99	756.8	
9800.00	90.70	359.7	2860.34	7173.99	-356.60	0.00	7175.65	1920653.50	11976041.99	757.4	
9850.00	90.70	359.7	2859.73	7223.99	-356.85	0.00	7225.64	1920653.25	11976091.99	758.0	
9900.00	90.70	359.7	2859.12	7273.98	-357.09	0.00	7275.64	1920653.01	11976141.98	758.6	
9950.00	90.70	359.7	2858.51	7323.98	-357.33	0.00	7325.64	1920652.77	11976191.98	759.2	
10000.00	90.70	359.7	2857.90	7373.97	-357.58	0.00	7375.63	1920652.52	11976241.97	759.9	
10050.00	90.70	359.7	2857.29	7423.97	-357.82	0.00	7425.63	1920652.28	11976291.97	760.5	
10100.00	90.70 90.70	359.7	2856.68	7473.96	-358.07	0.00	7475.62	1920652.20	11976341.96	761.1	
* TD (at MD			2000.00	1 41 0.00	-000.07	0.00	1710.02	1020002.00	110700-11.00	701.1	
10143.76	90.70	, 359.7	2856.14	7517.72	-358.28	0.00	7519.38	1920651.82	11976385.72	761.6	

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SES v5.79

#### PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Mack Energy Corporation
LEASE NO.:	NMNM-130324
WELL NAME & NO.:	Dawson Creek State Com 2H
SURFACE HOLE FOOTAGE:	1637' FSL & 2635' FEL
<b>BOTTOM HOLE FOOTAGE</b>	1321' FNL & 2310' FWL Sec. 25, T. 15 S., R 28 E.
LOCATION:	Section 36, T. 15 S., R 28 E., NMPM
COUNTY:	Chaves County, New Mexico

#### **Communitization Agreement**

• The operator will submit a Communitization Agreement to the Roswell Field Office, 2909 West 2<sup>nd</sup> Street Roswell, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

• If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.

• In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be</u> <u>on the sign.</u>

# The Gamma Ray and Neutron well logs must be run from total depth to surface and e-mailed to Aleksandr Knapowski at <u>cknapowski@blm.gov</u> or hard copy mailed to 2909 West Second Street Roswell, NM 88201 to his attention.

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

#### Chaves and Roosevelt Counties

Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201. During office hours call (575) 627-0272. After hours cll (575) 627-0205.

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#### A. Hydrogen Sulfide

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### **B. CASING**

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

#### Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

#### **High Cave/Karst**

Possibility of water flows in the Rustler, Queen, Salado, and Artesia Group. Possibility of lost circulation in the Rustler, Artesia Group, and San Andres.

- 1. The 13-3/8 inch surface casing shall be set at approximately 275 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

## **b.** Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Cement to surface. If cement does not circulate see B.1.a, c-d above.

### Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the  $7 \times 5-1/2$  inch production casing is:

Cement to surface. If cement does not circulate, contact the appropriate BLM office.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

#### **C. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
- 2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor. If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
- 3. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 3000 (3M) psi (testing to 2,000 psi).
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Operator shall perform the intermediate casing integrity test to 70% of the casing burst. This will test the multi-bowl seals.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

**Approval Date: 05/08/2023** 

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
  - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - d. The results of the test shall be reported to the appropriate BLM office.
  - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. 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. This test shall be performed prior to the test at full stack pressure.

#### **D. DRILL STEM TEST**

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

#### JAM 03132023

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XX As Drilled

API #			
Operator Name:		Property Name:	Well Number
MACK ENERGY CO	RPORATION	DAWSON CREEK STATE COM	2H

#### 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
F	36	15S	28E		2508	NORTH	2310	WEST	CHAVES
Latitu 32.9	<sup>de</sup> )72839	2			Longitude <b>104.0862</b>	2902			NAD 83

#### Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
F	25	15S	28E		1420	NORTH	2310	WEST	CHAVES
Latitud 32.9	<sup>de</sup> 90292	1			Longitud 104.0	<sup>be</sup> 863422			NAD 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



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

**APD ID:** 10400089470

**Operator Name: MACK ENERGY CORPORATION** 

Well Name: DAWSON CREEK STATE COM

Well Type: OIL WELL

Well Number: 2H Well Work Type: Drill

Submission Date: 01/16/2023

Highlighted data reflects the most recent changes

05/08/2023

Drilling Plan Data Report

Show Final Text

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

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
9595341	RUSTLER	3597	140	140	ALLUVIUM	NONE	N
9595342	TOP OF SALT	3243	354	354	SALT	NONE	N
9595343	BASE OF SALT	3017	580	580	SALT	NONE	N
9595611	YATES	3007	590	590	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595612	SEVEN RIVERS	2779	818	818	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595613	QUEEN	2281	1316	1316	ANHYDRITE, SILTSTONE	NATURAL GAS, OIL	N
9595614	GRAYBURG	1867	1730	1730	ANHYDRITE, DOLOMITE, SILTSTONE	NATURAL GAS, OIL	N
9595615	SAN ANDRES	1530	2067	2067	ANHYDRITE, DOLOMITE	NATURAL GAS, OIL	Y

#### Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10144

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 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 mins without a test plug. The estimated bottom hole at TD is 120 degrees and estimated maximum bottom hole pressure is 1,366psig (0.052\*2,856'TVD\*9.2) less than 2900 bottom hole pressure. Well test to 2000 psi for 30mins.

#### **Choke Diagram Attachment:**

3M\_Choke\_Diagram\_20221201102508.pdf

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

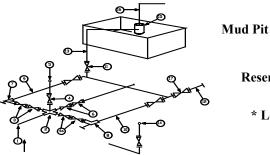
3M\_BOP\_20221201102528.pdf

### 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	1		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

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.

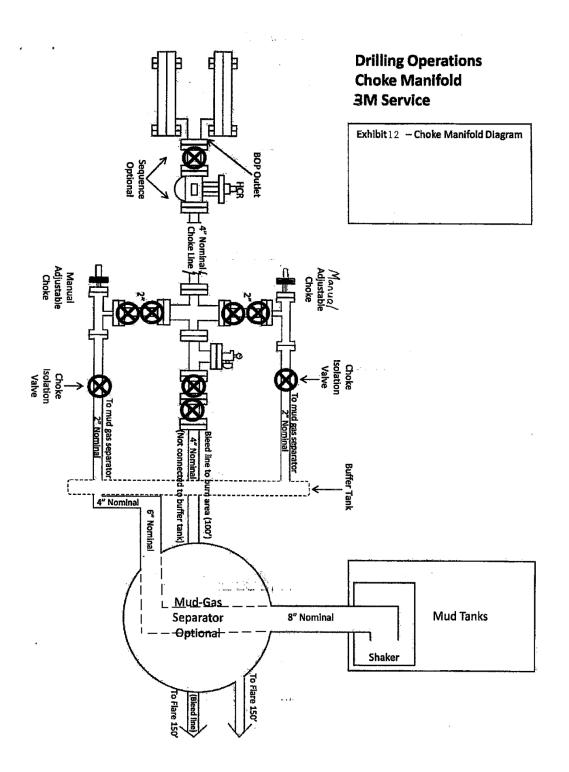
3. All lines shall be securely anchored.

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

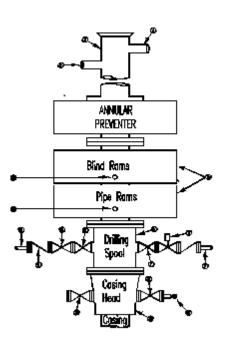
#### Mack Energy Corporation MANIFOLD SCHEMATIC Exhibit #12



#### 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" 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 Flanged Valve

ME

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

- 1. 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.

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 34 of 34 CONDITIONS

Action 215117

CONDITIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	215117
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

SONDITIONS		
Created By	Condition	Condition Date
john.harrison	Notify OCD 24 hours prior to casing & cement	5/15/2023
john.harrison	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/15/2023
john.harrison	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	5/15/2023
john.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing	5/15/2023
john.harrison	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	5/15/2023