<u>District I</u> 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

Form C-101 August 1, 2011

Permit 362837

AFFLICATION FOR FEMILIFITO DIVILE, NE-ENTEN, DEEFEN, FEOGRACH, ON ADD	AZONL
1. Operator Name and Address	2. OGRID Number
MACK ENERGY CORP	13837

P.O. Box 960 3. API Number Artesia, NM 882110960 30-015-54967 4. Property Code 5. Property Name 6. Well No. 335844 Hudson Bay State 001H

ADDITIONATION FOR DEDMIT TO DOLL DE ENTED DEEDEN DILICRACK OR ADDIA ZONE

7 Surface Location

I	UL - Lot	Section	Township Range		Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County		
	Р	1	16S	28E		933	S	795	E	Eddy		

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
С	1	16S	28E	3	1	N	2310	W	Eddy

9. Pool Information

ROUND TANK;SAN ANDRES 52770

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation	
New Well	OIL		State	3609	
16. Multiple	17. Proposed Depth	18. Formation	19. Contractor	20. Spud Date	
N	9931	San Andres		6/30/2024	
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water	

We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

			Z I. FTOPOSEU Gasilių	and Cement Program			
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC	
Surf	12.25	9.625	36	210	300	0	
Prod	8.75	7	26	2100	2810	0	
Prod	8.75	5.5	17	9931	2810	0	

Casing/Cement Program: Additional Comments

Mack Energy Corporation proposed to drill 12 1/4" hole to 210', run 9 5/8" csg/cmt. Drill 8 3/4" hole to 9931', run 7" to 2100', 5 1/2" to 9931' csg.cmt. Put well on production.

22 Proposed Blowout Prevention Program

22.1 Toposca Biowoat i Tevention i Togram										
Туре	Working Pressure	Test Pressure	Manufacturer							
Double Ram	3000	3000								

knowledge and b	pelief.	s true and complete to the best of my NMAC ⊠ and/or 19.15.14.9 (B) NMAC		OIL CONSERVATION	ON DIVISION		
Printed Name:	Electronically filed by Jerry Sher	rell	Approved By:	Ward Rikala			
Title:	Regulatory Supervisor		Title:				
Email Address:	jerrys@mec.com		Approved Date:	pproved Date: 4/24/2024 Expiration Date: 4/24/2026			
Date:	4/4/2024	Phone: 575-748-1288	Conditions of Approval Attached				

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

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

1220 South St. Francis D Santa Fe, NM 87505 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	¹ API Number ² Pool Code		³ Pool Name				
30-015-54967		52770	Round Tank; San Andres				
⁴ Property Code		⁵ P ₁	roperty Name	⁶ Well Number			
335844		HUDSO	N BAY STATE	1H			
⁷ OGRID No.		8 O ₁	perator Name	⁹ Elevation			
13837		MACK ENER	3609.8				

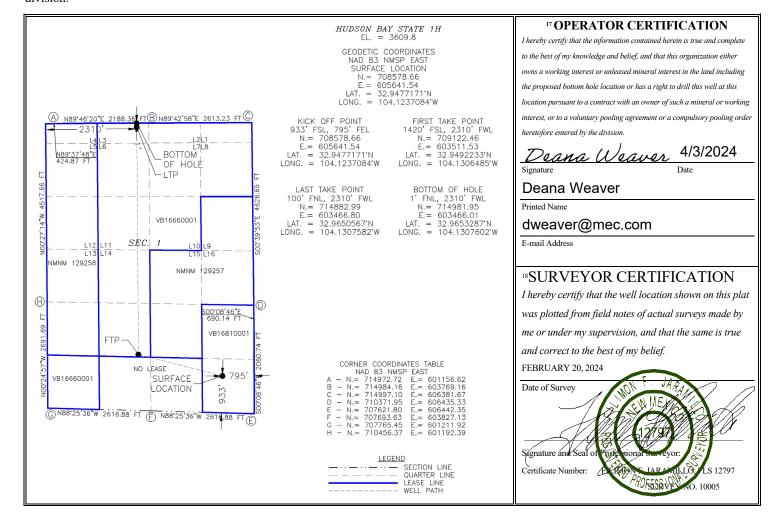
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	1	16 S	28 E		933	SOUTH	795	EAST	EDDY

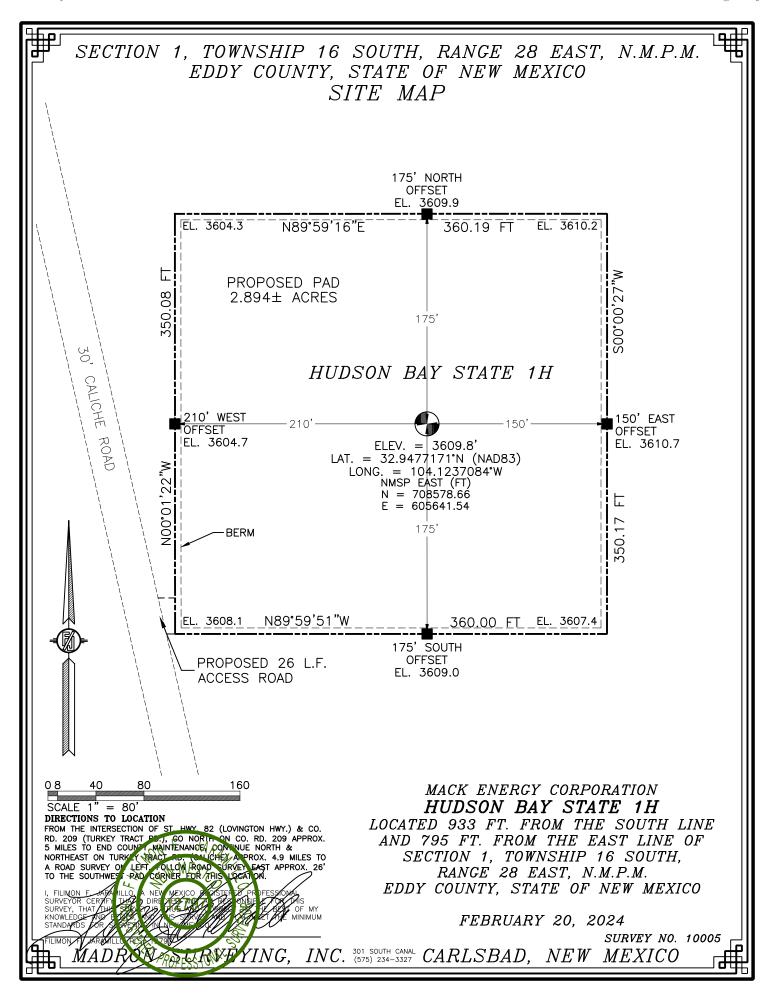
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section 1	Township 16 S	Range 28 E	Lot Idn	Feet from the	North/South line NORTH	Feet from the 2310	East/West line WEST	County EDDY
12 Dedicated Acre	s ¹³ Joint	or Infill 14	Consolidation	n Code			¹⁵ Order No.		

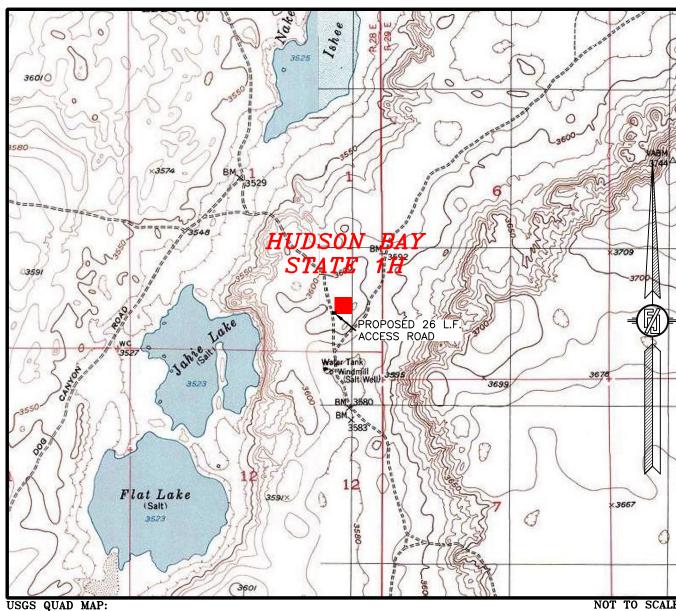
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Inten [.]		As Dril	led											
-	rator Nai CK ENE	ne: ERGY CO	DRPOR	ATIOI	N	Prope HUD				ATE				Well Number 1H
Kick (Off Point	(KOP)												
UL Section Township Range Lot Fee P 1 16S 28E 93					Feet 933	S	From N		Feet 795		From EAS	n E/W ST	County	
	947717	1			_	ongitude NAD 83							NAD 83	
First 7	Гake Poir	nt (FTP)												
UL K	Section 1	Township 16S	Range 28E	Lot	Feet 1420					County EDDY				
						Longitude NAD 83							NAD 83	
Last T	ake Poin	t (LTP)												
UL	Section 1	Township 16S	Range 28E	Lot 3	Feet 100	From NOR		Feet 231		From E		Count		
Latitu 32.9	ide 965056	7			Longitu 104.	ude 13075	582					NAD 83		
		defining v	vell for th	ne Hori	zontal S _l	pacing	Unit?]				
Spaci	ng Unit.	lease prov	ide API if	availal	ole, Ope	rator N	ame	and v	vell n	umber	for [Definir	ng well fo	r Horizontal
API#														
Ope	rator Nai	me:				Property Name:						Well Number		
														KZ 06/29/2018



SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



BASIN WELL
DIAMOND MOUND

MACK ENERGY CORPORATION HUDSON BAY STATE 1H

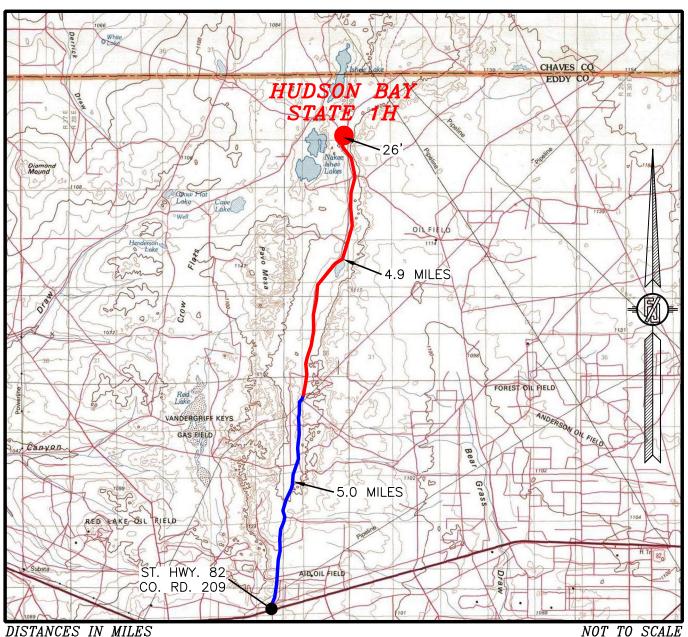
LOCATED 933 FT. FROM THE SOUTH LINE AND 795 FT. FROM THE EAST LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 20, 2024

SURVEY NO. 10005

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. 82 (LOVINGTON HWY.) & CO. RD. 209 (TURKEY TRACT RD.), GO NORTH ON CO. RD. 209 APPROX. 5 MILES TO END COUNTY MAINTENANCE, CONTINUE NORTH & NORTHEAST ON TURKEY TRACT RD. (CALICHE) APPROX. 4.9 MILES TO A ROAD SURVEY ON LEFT, FOLLOW ROAD SURVEY EAST APPROX. 26' TO THE SOUTHWEST PAD CORNER FOR THIS LOCATION.

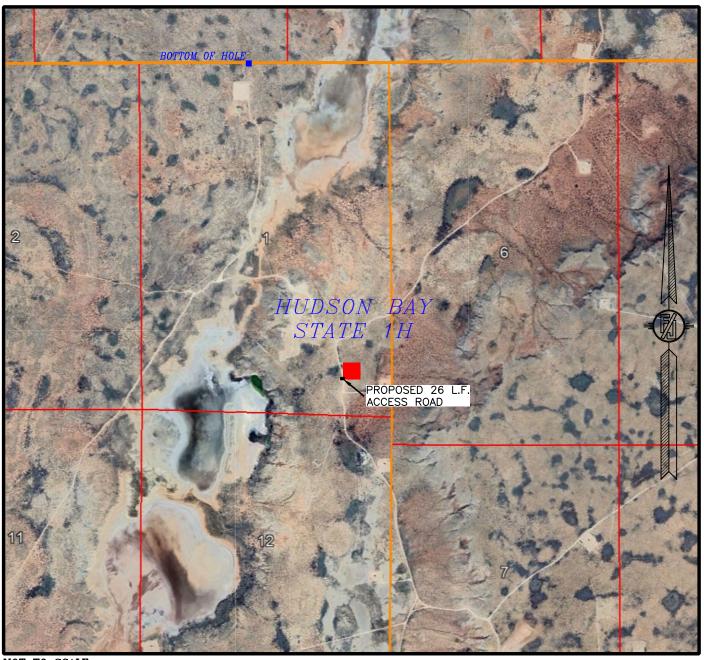
MACK ENERGY CORPORATION HUDSON BAY STATE 1H LOCATED 933 FT. FROM THE SOUTH LINE AND 795 FT. FROM THE EAST LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 20, 2024

SURVEY NO. 10005

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APR. 2023

MACK ENERGY CORPORATION HUDSON BAY STATE 1H

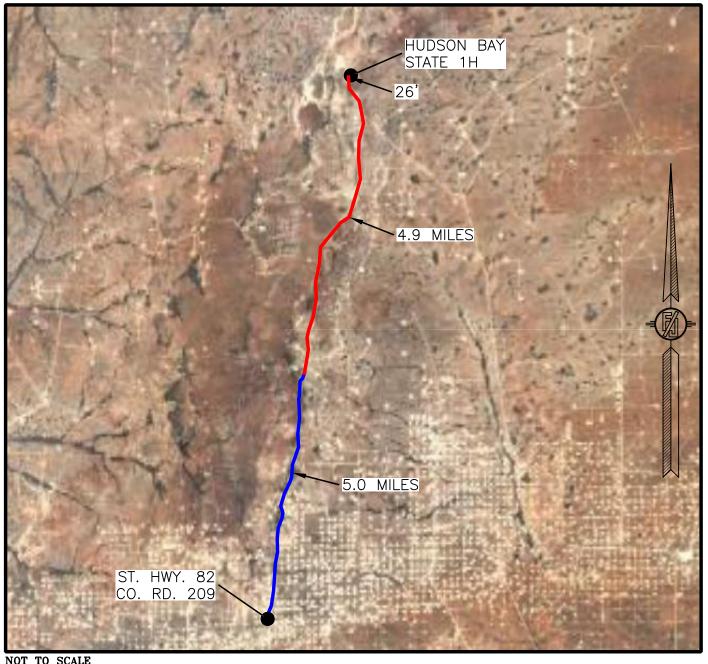
LOCATED 933 FT. FROM THE SOUTH LINE AND 795 FT. FROM THE EAST LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 20, 2024

SURVEY NO. 10005

 $MADRON \ \ SURVEYING, \ \ INC. \ {\tiny 5075} \ {\tiny 234-3327} \ \ CARLSBAD, \ \ NEW \ \ MEXICO$

SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO AERIAL ACCESS ROUTE MAP



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH APR. 2023

MACK ENERGY CORPORATION HUDSON BAY STATE 1H

LOCATED 933 FT. FROM THE SOUTH LINE AND 795 FT. FROM THE EAST LINE OF SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO

FEBRUARY 20, 2024

SURVEY NO. 10005

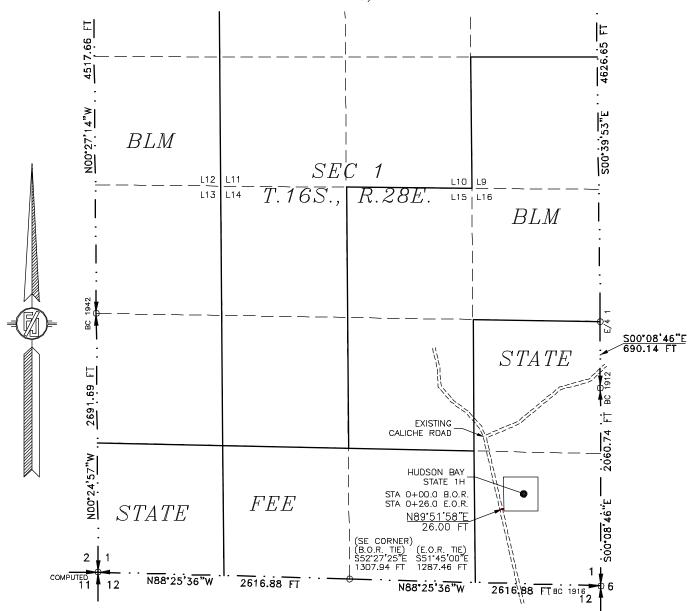
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

ACCESS ROAD PLAT

ACCESS ROAD FOR HUDSON BAY STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO FEBRUARY 20, 2024



SEE NEXT SHEET (2-2) FOR DESCRIPTION



GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 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 SURVĖY.

SHEET: 1-2

MADRON SURVEYING(

SURVEYOR CERTIFICATE

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 NEW MEXICO. SURVEYING IN

CERTIFICATE IS EXECUTED AT CARLSBAD, NEW N

MADRON SURVEYING, INC. 7301 SOUTH CANAL (CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3327

NEW MEXICO

SURVEY NO. 10005

Released to Imaging: 4/24/2024 2:09:13 PM

ACCESS ROAD PLAT

ACCESS ROAD FOR HUDSON BAY STATE 1H

MACK ENERGY CORPORATION

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO FEBRUARY 20, 2024

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S52*27'25"E, A DISTANCE OF 1307.94 FEET;

THENCE N89°51'58"E A DISTANCE OF 26.00 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 1, TOWNSHIP 16 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S51°45'00"E, A DISTANCE OF 1287.46 FEET;

SAID STRIP OF LAND BEING 26.00 FEET OR 1.58 RODS IN LENGTH, CONTAINING 0.018 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 26.00 L.F. 1.58 RODS 0.018 ACRES

SURVEYOR CERTIFICATE

NEW M

GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 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.

SHEET: 2-2

MADRON SURVEYING, INC. (575)

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 IN THE STATE OF NEW MEXICO.

CERTIFICATE IS EXECUTED AT CARLSBAD,

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 8822D Phone (575) 234-3327

SURVEY NO. 10005

BAD, NEW MEXICO

<u>District I</u> 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

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**

Form APD Conditions

Permit 362837

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MACK ENERGY CORP [13837]	30-015-54967
P.O. Box 960	Well:
Artesia, NM 882110960	Hudson Bay State #001H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	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
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	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
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

I. Operator:

Mack Energy Corporation

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Date: 4 / 3 / 2024

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

OGRID:

013837

II. Type: ⊠ Original □	l Amendment	due to □ 19.15.27.9	.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) NMAC	☐ Other.	
If Other, please describe	:						
III. Well(s): Provide the be recompleted from a si					vells proposed	l to be dri	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/I		Anticipated roduced Water BBL/D
Hudson Bay State #1H		P Sec 1 T16S R28E	933 FSL 795 FEL	100	100	1,0	000
V. Anticipated Schedule proposed to be recomple Well Name					Initi	ells propo al Flow k Date	First Production Date
Hudson Bay State #1H		6/30/2024	7/20/2024	7/31/2024		7/31/2024	8/1/2024
		O/OO/2024	1720/2024	17011202-	,	70172024	0/1/2024
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Managemen during active and planne	ices: 🔀 Attac of 19.15.27.8	th a complete descripNMAC. ✓ Attach a complete	otion of the ac	tions Operator will	I take to com	ply 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. 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 🗆 v	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

XIII. Line Pressure. Operator \square does \square 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 we	ll(s).

A 1 .	O 1	, 1		1 4.	•	4 41 .	ased line pres	
 Attach (Inerator	'c nlan to	manage	nraduction	in rechange	to the incre	aced line nrec	CILTO

XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information	ion 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 spec	ific information
for which confidentiality is asserted and the basis for such assertion.	

(h)

(i)

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

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

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: power generation on lease: (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery;

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

fuel cell production; and

- (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: 4/3/2024
Phone:
<u>575-748-1288</u>
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:

- 1. 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 o 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.

Lat Long Ref

Hudson Bay State Com #1H, Plan 1

 Operator
 Mack Energy Corp
 Units
 feet, °/100ft
 14:30 Tuesday, April 2, 2024 Page 1 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X
 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y
 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z
 3627.3
 Global Z Ref
 KB

Project MD/TVD Ref KB Ground Level 3609.8 Local North Ref Grid

DIDECTIONAL	WELL DLAN

*** TIE (at MD = 707 707.00 0 750.00 0 800.00 0 *** KOP 8 DEGREES 807.00 0 850.00 1 900.00 4 950.00 6 1000.00 8	0.00 0.00 0.00 S (at MD 0.00 1.91 2 4.14 2 6.36 2	0.0 0.0 0.0 0.0 0.0 278.0 278.0 278.0 278.0	707.00 750.00 800.00 0) 807.00 849.99 899.92 949.71	0.00 0.00 0.00 0.00 0.10	0.00 0.00 0.00 0.00 -0.71	0.00 0.00 0.00 4.45	0.00 0.00 0.00 0.00	1909285.00 1909285.00 1909285.00	11960684.90 11960684.90 11960684.90	2920.30 2877.30 2827.30
707.00 0 750.00 0 800.00 0 *** KOP 8 DEGREES 807.00 0 850.00 1 900.00 4 950.00 6 1000.00 8	0.00 0.00 0.00 S (at MD 0.00 1.91 2 4.14 2 6.36 2	0.0 0.0 0 = 807.0 0.0 278.0 278.0 278.0	750.00 800.00 0) 807.00 849.99	0.00 0.00 0.00 0.10	0.00 0.00 0.00	0.00	0.00 0.00	1909285.00 1909285.00	11960684.90	2877.30
800.00 0 *** KOP 8 DEGREES 807.00 0 850.00 1 900.00 4 950.00 6 1000.00 8	0.00 S (at MD 0.00 I.91 2 I.14 2 3.36 2	0.0 0 = 807.0 0.0 278.0 278.0 278.0	800.00 0) 807.00 849.99	0.00 0.00 0.10	0.00	0.00	0.00	1909285.00		
*** KOP 8 DEGREES 807.00 0 850.00 1 900.00 4 950.00 6 1000.00 8	S (at MD 0.00 1.91 2 1.14 2 3.36 2 3.59 2	0 = 807.0 0.0 278.0 278.0 278.0	0) 807.00 849.99 899.92	0.00 0.10	0.00	0.00			11960684.90	2827.30
807.00 0 850.00 1 900.00 4 950.00 6 1000.00 8	0.00 1.91 2 1.14 2 3.36 2 3.59 2	0.0 278.0 278.0 278.0 278.0	807.00 849.99 899.92	0.10			0.00	1000205.00		
850.00 1 900.00 4 950.00 6 1000.00 8	1.91 2 1.14 2 3.36 2 3.59 2	278.0 278.0 278.0	849.99 899.92	0.10			0.00	1000005.00		
900.00 4 950.00 6 1000.00 8	1.14 2 3.36 2 3.59 2	278.0 278.0	899.92		-0.71	4 45		1909285.00	11960684.90	2820.30
950.00 6 1000.00 8	3.36 2 3.59 2	278.0		0.47		4.40	0.10	1909284.29	11960685.00	2777.31
1000.00 8	3.59 2		949.71		-3.32	4.45	0.49	1909281.68	11960685.37	2727.38
		278.0		1.10	-7.86	4.45	1.16	1909277.14	11960686.00	2677.59
	181 3		999.28	2.01	-14.30	4.45	2.11	1909270.70	11960686.91	2628.02
1050.00 10).O1 2	278.0	1048.56	3.18	-22.64	4.45	3.34	1909262.36	11960688.08	2578.74
1100.00 13	3.04 2	278.0	1097.48	4.62	-32.87	4.45	4.85	1909252.13	11960689.52	2529.82
1150.00 15	5.26 2	278.0	1145.96	6.32	-44.98	4.45	6.63	1909240.02	11960691.22	2481.34
1200.00 17	7.49 2	278.0	1193.93	8.28	-58.93	4.45	8.69	1909226.07	11960693.18	2433.37
1250.00 19	9.71 2	278.0	1241.31	10.50	-74.73	4.45	11.02	1909210.27	11960695.40	2385.99
1300.00 21	1.94 2	278.0	1288.04	12.98	-92.33	4.45	13.62	1909192.67	11960697.88	2339.26
1350.00 24	1.16 2	278.0	1334.05	15.70	-111.72	4.45	16.48	1909173.28	11960700.60	2293.25
1400.00 26	6.39 2	278.0	1379.26	18.67	-132.86	4.45	19.60	1909152.14	11960703.57	2248.04
1450.00 28	3.61 2	278.0	1423.60	21.88	-155.72	4.45	22.97	1909129.28	11960706.78	2203.70
		278.0	1467.02	25.33	-180.27	4.45	26.59	1909104.73	11960710.23	2160.28
		278.0	1509.44	29.02	-206.47	4.45	30.46	1909078.53	11960713.92	2117.86
1600.00 35	5.29 2	278.0	1550.81	32.93	-234.28	4.45	34.56	1909050.72	11960717.83	2076.49
1650.00 37	7.51 2	278.0	1591.05	37.06	-263.66	4.45	38.89	1909021.34	11960721.96	2036.25
1700.00 39	9.74 2	278.0	1630.11	41.40	-294.57	4.45	43.45	1908990.43	11960726.30	1997.19
1750.00 41	1.96 2	278.0	1667.93	45.95	-326.95	4.45	48.23	1908958.05	11960730.85	1959.37
1800.00 44	1.19 2	278.0	1704.45	50.70	-360.76	4.45	53.22	1908924.24	11960735.60	1922.85
1850.00 46	6.41 2	278.0	1739.61	55.65	-395.96	4.45	58.41	1908889.04	11960740.55	1887.69
1900.00 48	3.64 2	278.0	1773.37	60.78	-432.48	4.45	63.80	1908852.52	11960745.68	1853.93
1950.00 50	0.86 2	278.0	1805.68	66.09	-470.26	4.45	69.37	1908814.74	11960750.99	1821.62
2000.00 53	3.09 2	278.0	1836.48	71.57	-509.27	4.45	75.13	1908775.73	11960756.47	1790.82
*** 55 DEGREE TAN		= 2042.9	96)							
		278.0	1861.70	76.41	-543.70	4.45	80.21	1908741.30	11960761.31	1765.60
2050.00 55	5.00 2	278.0	1865.74	77.21	-549.41	0.00	81.05	1908735.59	11960762.11	1761.56
		278.0	1894.42	82.91	-589.97	0.00	87.03	1908695.03	11960767.81	1732.88
		278.0	1923.09	88.62	-630.53	0.00	93.01	1908654.47	11960773.52	1704.21
		278.0	1951.77	94.32	-671.09	0.00	99.00	1908613.91	11960779.22	1675.53
		278.0	1980.45	100.02	-711.65	0.00	104.98	1908573.35	11960784.92	1646.85
2300.00 55	5.00 2	278.0	2009.13	105.72	-752.21	0.00	110.96	1908532.79	11960790.62	1618.17

Operator Mack Energy Corp Units feet, °/100ft 14:30 Tuesday, April 2, 2024 Page 2 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z 3627.3
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3609.8
 Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INIO*	A 71+	T\/D*	NI+	F+	DI 0*	W 0 *	88	B# DI# 4) T/(D+
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	Mapn* \$	SysTVD*
2350.00	55.00	278.0	2037.81	111.42	-792.77	0.00	116.95	1908492.23	11960796.32	1589.49
2400.00	55.00	278.0	2066.49	117.12	-833.32	0.00	122.93	1908451.68	11960802.02	1560.81
2450.00	55.00	278.0	2095.17	122.82	-873.88	0.00	128.91	1908411.12	11960807.72	1532.13
2500.00	55.00	278.0	2123.85	128.52	-914.44	0.00	134.90	1908370.56	11960813.42	1503.45
2550.00	55.00	278.0	2152.52	134.22	-955.00	0.00	140.88	1908330.00	11960819.12	1474.78
2600.00	55.00	278.0	2181.20	139.92	-995.56	0.00	146.86	1908289.44	11960824.82	1446.10
2650.00	55.00	278.0	2209.88	145.62	-1036.12	0.00	152.85	1908248.88	11960830.52	1417.42
2700.00	55.00	278.0	2238.56	151.32	-1076.68	0.00	158.83	1908208.32	11960836.22	1388.74
2750.00	55.00	278.0	2267.24	157.02	-1117.24	0.00	164.81	1908167.76	11960841.92	1360.06
2800.00	55.00	278.0	2295.92	162.72	-1157.80	0.00	170.80	1908127.20	11960847.62	1331.38
2850.00	55.00	278.0	2324.60	168.42	-1198.36	0.00	176.78	1908086.64	11960853.32	1302.70
2900.00	55.00	278.0	2353.28	174.12	-1238.91	0.00	182.76	1908046.09	11960859.02	1274.02
2950.00	55.00	278.0	2381.96	179.82	-1279.47	0.00	188.75	1908005.53	11960864.72	1245.34
3000.00	55.00	278.0	2410.63	185.52	-1320.03	0.00	194.73	1907964.97	11960870.42	1216.67
3050.00	55.00	278.0	2439.31	191.22	-1360.59	0.00	200.71	1907924.41	11960876.12	1187.99
3100.00	55.00	278.0	2467.99	196.92	-1401.15	0.00	206.70	1907883.85	11960881.82	1159.31
3150.00	55.00	278.0	2496.67	202.62	-1441.71	0.00	212.68	1907843.29	11960887.52	1130.63
3200.00	55.00	278.0	2525.35	208.32	-1482.27	0.00	218.66	1907802.73	11960893.22	1101.95
3250.00	55.00	278.0	2554.03	214.02	-1522.83	0.00	224.65	1907762.17	11960898.92	1073.27
3300.00	55.00	278.0	2582.71	219.72	-1563.39	0.00	230.63	1907721.61	11960904.62	1044.59
3350.00	55.00	278.0	2611.39	225.42	-1603.95	0.00	236.61	1907681.05	11960910.32	1015.91
3400.00	55.00	278.0	2640.06	231.12	-1644.50	0.00	242.60	1907640.50	11960916.02	987.24
3450.00	55.00	278.0	2668.74	236.82	-1685.06	0.00	248.58	1907599.94	11960921.72	958.56
3500.00	55.00	278.0	2697.42	242.52	-1725.62	0.00	254.56	1907559.38	11960927.42	929.88
3550.00	55.00	278.0	2726.10	248.22	-1766.18	0.00	260.54	1907518.82	11960933.12	901.20
*** 12 DEGREI										
3569.96	55.00	278.0	2737.55	250.50	-1782.37	0.00	262.93	1907502.63	11960935.40	889.75
3600.00	55.41	282.4	2754.70	254.86	-1806.64	12.00	267.46	1907478.36	11960939.76	872.60
3650.00	56.44	289.5	2782.73	266.23	-1846.42	12.00	279.11	1907438.58	11960951.13	844.57
3700.00	57.86	296.4	2809.88	282.62	-1885.05	12.00	295.78	1907399.95	11960967.52	817.42
3750.00	59.65	303.1	2835.83	303.86	-1922.10	12.00	317.27	1907362.90	11960988.76	791.47
3800.00	61.77	309.6	2860.31	329.71	-1957.18	12.00	343.37	1907327.82	11961014.61	766.99
3850.00	64.18	315.7	2883.04	359.90	-1989.89	12.00	373.78	1907295.11	11961044.80	744.26
3900.00	66.84	321.7	2903.79	394.07	-2019.88	12.00	408.17	1907265.12	11961078.97	723.51
3950.00	69.70	327.3	2922.31	431.88	-2046.81	12.00	446.15	1907238.19	11961116.78	704.99
4000.00	72.75	332.8	2938.41	472.89	-2070.41	12.00	487.33	1907214.59	11961157.79	688.89
4050.00	75.94	338.1	2951.91	516.66	-2090.39	12.00	531.24	1907194.61	11961201.56	675.39
4100.00	79.24	343.2	2962.66	562.71	-2106.56	12.00	577.40	1907178.44	11961247.61	664.64

Operator Mack Energy Corp Units feet, °/100ft 14:30 Tuesday, April 2, 2024 Page 3 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z 3627.3
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3609.8
 Local North Ref Grid

DIRECTIONAL WELL PLAN

BIRECTIONAL WELL DEAN												
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	-	SysTVD*		
4150.00	82.62	348.2	2970.55	610.54	-2118.72	12.00	625.32	1907166.28	11961295.44	656.75		
4200.00	86.05	353.2	2975.49	659.62	-2126.75	12.00	674.45	1907158.25	11961344.52	651.81		
4250.00	89.52	358.1	2977.42	709.41	-2130.56	12.00	724.27	1907154.44	11961394.31	649.88		
*** LANDING F	POINT (at N	MD = 4265.	57)									
4265.57	90.60	359.6	2977.41	724.98	-2130.87	12.00	739.84	1907154.13	11961409.88	649.89		
4300.00	90.60	359.6	2977.05	759.41	-2131.11	0.00	774.27	1907153.89	11961444.31	650.25		
4350.00	90.60	359.6	2976.52	809.40	-2131.46	0.00	824.26	1907153.54	11961494.30	650.78		
4400.00	90.60	359.6	2976.00	859.40	-2131.81	0.00	874.26	1907153.19	11961544.30	651.30		
4450.00	90.60	359.6	2975.48	909.40	-2132.16	0.00	924.26	1907152.84	11961594.30	651.82		
4500.00	90.60	359.6	2974.95	959.39	-2132.51	0.00	974.26	1907152.49	11961644.29	652.35		
4550.00	90.60	359.6	2974.43	1009.39	-2132.86	0.00	1024.25	1907152.14	11961694.29	652.87		
4600.00	90.60	359.6	2973.91	1059.38	-2133.21	0.00	1074.25	1907151.79	11961744.28	653.40		
4650.00	90.60	359.6	2973.38	1109.38	-2133.56	0.00	1124.25	1907151.44	11961794.28	653.92		
4700.00	90.60	359.6	2972.86	1159.38	-2133.91	0.00	1174.24	1907151.09	11961844.28	654.44		
4750.00	90.60	359.6	2972.33	1209.37	-2134.25	0.00	1224.24	1907150.75	11961894.27	654.97		
4800.00	90.60	359.6	2971.81	1259.37	-2134.60	0.00	1274.24	1907150.40	11961944.27	655.49		
4850.00	90.60	359.6	2971.29	1309.36	-2134.95	0.00	1324.24	1907150.05	11961994.26	656.01		
4900.00	90.60	359.6	2970.76	1359.36	-2135.30	0.00	1374.23	1907149.70	11962044.26	656.54		
4950.00	90.60	359.6	2970.24	1409.36	-2135.65	0.00	1424.23	1907149.35	11962094.26	657.06		
5000.00	90.60	359.6	2969.72	1459.35	-2136.00	0.00	1474.23	1907149.00	11962144.25	657.58		
5050.00	90.60	359.6	2969.19	1509.35	-2136.35	0.00	1524.23	1907148.65	11962194.25	658.11		
5100.00	90.60	359.6	2968.67	1559.34	-2136.70	0.00	1574.22	1907148.30	11962244.24	658.63		
5150.00	90.60	359.6	2968.15	1609.34	-2137.05	0.00	1624.22	1907147.95	11962294.24	659.15		
5200.00	90.60	359.6	2967.62	1659.34	-2137.40	0.00	1674.22	1907147.60	11962344.24	659.68		
5250.00	90.60	359.6	2967.10	1709.33	-2137.74	0.00	1724.21	1907147.26	11962394.23	660.20		
5300.00	90.60	359.6	2966.57	1759.33	-2138.09	0.00	1774.21	1907146.91	11962444.23	660.73		
5350.00	90.60	359.6	2966.05	1809.32	-2138.44	0.00	1824.21	1907146.56	11962494.22	661.25		
5400.00	90.60	359.6	2965.53	1859.32	-2138.79	0.00	1874.21	1907146.21	11962544.22	661.77		
5450.00	90.60	359.6	2965.00	1909.32	-2139.14	0.00	1924.20	1907145.86	11962594.22	662.30		
5500.00	90.60	359.6	2964.48	1959.31	-2139.49	0.00	1974.20	1907145.51	11962644.21	662.82		
5550.00	90.60	359.6	2963.96	2009.31	-2139.84	0.00	2024.20	1907145.16	11962694.21	663.34		
5600.00	90.60	359.6	2963.43	2059.30	-2140.19	0.00	2074.20	1907144.81	11962744.20	663.87		
5650.00	90.60	359.6	2962.91	2109.30	-2140.54	0.00	2124.19	1907144.46	11962794.20	664.39		
5700.00	90.60	359.6	2962.39	2159.30	-2140.89	0.00	2174.19	1907144.11	11962844.20	664.91		
5750.00	90.60	359.6	2961.86	2209.29	-2141.24	0.00	2224.19	1907143.76	11962894.19	665.44		
5800.00	90.60	359.6	2961.34	2259.29	-2141.58	0.00	2274.18	1907143.42	11962944.19	665.96		
5850.00	90.60	359.6	2960.82	2309.28	-2141.93	0.00	2324.18	1907143.07	11962994.18	666.48		
5900.00	90.60	359.6	2960.29	2359.28	-2142.28	0.00	2374.18	1907142.72	11963044.18	667.01		

 Operator
 Mack Energy Corp
 Units
 feet, °/100ft
 14:30 Tuesday, April 2, 2024
 Page 4 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z 3627.3
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3609.8
 Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	sysTVD*
5950.00	90.60	359.6	2959.77	2409.28	-2142.63	°/100ff 0.00	2424.18	1907142.37	11963094.18	667.53
6000.00	90.60	359.6	2959.24	2459.27	-2142.98	0.00	2474.17 1907142.02		11963144.17	668.06
6050.00	90.60	359.6	2958.72	2509.27	-2143.33	0.00	2524.17	1907141.67	11963194.17	668.58
6100.00	90.60	359.6	2958.20	2559.26	-2143.68	0.00	2574.17	1907141.32	11963244.16	669.10
6150.00	90.60	359.6	2957.67	2609.26	-2144.03	0.00	2624.17	1907140.97	11963294.16	669.63
6200.00	90.60	359.6	2957.15	2659.26	-2144.38	0.00	2674.16	1907140.62	11963344.16	670.15
6250.00	90.60	359.6	2956.63	2709.25	-2144.73	0.00	2724.16	1907140.27	11963394.15	670.67
6300.00	90.60	359.6	2956.10	2759.25	-2145.07	0.00	2774.16	1907139.93	11963444.15	671.20
6350.00	90.60	359.6	2955.58	2809.25	-2145.42	0.00	2824.15	1907139.58	11963494.15	671.72
6400.00	90.60	359.6	2955.06	2859.24	-2145.77	0.00	2874.15	1907139.23	11963544.14	672.24
6450.00	90.60	359.6	2954.53	2909.24	-2146.12	0.00	2924.15	1907138.88	11963594.14	672.77
6500.00	90.60	359.6	2954.01	2959.23	-2146.47	0.00	2974.15	1907138.53	11963644.13	673.29
6550.00	90.60	359.6	2953.49	3009.23	-2146.82	0.00	3024.14	1907138.18	11963694.13	673.82
6600.00	90.60	359.6	2952.96	3059.23	-2147.17	0.00	3074.14	1907137.83	11963744.13	674.34
6650.00	90.60	359.6	2952.44	3109.22	-2147.52	0.00	3124.14	1907137.48	11963794.12	674.86
6700.00	90.60	359.6	2951.91	3159.22	-2147.87	0.00	3174.14	1907137.13	11963844.12	675.39
6750.00	90.60	359.6	2951.39	3209.21	-2148.22	0.00	3224.13	1907136.78	11963894.11	675.91
6800.00	90.60	359.6	2950.87	3259.21	-2148.57	0.00	3274.13	1907136.43	11963944.11	676.43
6850.00	90.60	359.6	2950.34	3309.21	-2148.91	0.00	3324.13	1907136.09	11963994.11	676.96
6900.00	90.60	359.6	2949.82	3359.20	-2149.26	0.00	3374.12	1907135.74	11964044.10	677.48
6950.00	90.60	359.6	2949.30	3409.20	-2149.61	0.00	3424.12	1907135.39	11964094.10	678.00
7000.00	90.60	359.6	2948.77	3459.19	-2149.96	0.00	3474.12	1907135.04	11964144.09	678.53
7050.00	90.60	359.6	2948.25	3509.19	-2150.31	0.00	3524.12	1907134.69	11964194.09	679.05
7100.00	90.60	359.6	2947.73	3559.19	-2150.66	0.00	3574.11	1907134.34	11964244.09	679.57
7150.00	90.60	359.6	2947.20	3609.18	-2151.01	0.00	3624.11	1907133.99	11964294.08	680.10
7200.00	90.60	359.6	2946.68	3659.18	-2151.36	0.00	3674.11	1907133.64	11964344.08	680.62
7250.00	90.60	359.6	2946.15	3709.17	-2151.71	0.00	3724.11	1907133.29	11964394.07	681.15
7300.00	90.60	359.6	2945.63	3759.17	-2152.06	0.00	3774.10	1907132.94	11964444.07	681.67
7350.00	90.60	359.6	2945.11	3809.17	-2152.40	0.00	3824.10	1907132.60	11964494.07	682.19
7400.00	90.60	359.6	2944.58	3859.16	-2152.75	0.00	3874.10	1907132.25	11964544.06	682.72
7450.00	90.60	359.6	2944.06	3909.16	-2153.10	0.00	3924.09	1907131.90	11964594.06	683.24
7500.00	90.60	359.6	2943.54	3959.15	-2153.45	0.00	3974.09	1907131.55	11964644.05	683.76
7550.00	90.60	359.6	2943.01	4009.15	-2153.80	0.00	4024.09	1907131.20	11964694.05	684.29
7600.00	90.60	359.6	2942.49	4059.15	-2154.15	0.00	4074.09	1907130.85	11964744.05	684.81
7650.00	90.60	359.6	2941.97	4109.14	-2154.50	0.00	4124.08	1907130.50	11964794.04	685.33
7700.00	90.60	359.6	2941.44	4159.14	-2154.85	0.00	4174.08	1907130.15	11964844.04	685.86
7750.00	90.60	359.6	2940.92	4209.13	-2155.20	0.00	4224.08	1907129.80	11964894.03	686.38

Operator Mack Energy Corp Units feet, °/100ft 14:30 Tuesday, April 2, 2024 Page 5 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z 3627.3
 Global Z Ref KB

Project MD/TVD Ref KB Ground Level 3609.8 Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	SysTVD*
7800.00	90.60	359.6	2940.40	4259.13	-2155.55	0.00	4274.07	1907129.45	11964944.03	686.90
7850.00	90.60	359.6	2939.87	4309.13	-2155.90	0.00	4324.07	1907129.10	11964994.03	687.43
7900.00	90.60	359.6	2939.35	4359.12	-2156.24	0.00	4374.07	1907128.76	11965044.02	687.95
7950.00	90.60	359.6	2938.82	4409.12	-2156.59	0.00	4424.07	1907128.41	11965094.02	688.48
8000.00	90.60	359.6	2938.30	4459.11	-2156.94	0.00	4474.06	1907128.06	11965144.01	689.00
8050.00	90.60	359.6	2937.78	4509.11	-2157.29	0.00	4524.06	1907127.71	11965194.01	689.52
8100.00	90.60	359.6	2937.76	4559.11	-2157.29	0.00	4574.06	1907127.36	11965244.01	690.05
8150.00	90.60	359.6	2936.73	4609.10	-2157.04	0.00	4624.06	1907127.01	11965294.00	690.57
8200.00	90.60	359.6	2936.21	4659.10	-2158.34	0.00	4674.05	1907126.66	11965344.00	691.09
8200.00	90.00	339.0	2930.21	4009.10	-2130.34	0.00	4074.03	1907 120.00	11903344.00	091.09
8250.00	90.60	359.6	2935.68	4709.09	-2158.69	0.00	4724.05	1907126.31	11965393.99	691.62
8300.00	90.60	359.6	2935.16	4759.09	-2159.04	0.00	4774.05	1907125.96	11965443.99	692.14
8350.00	90.60	359.6	2934.64	4809.09	-2159.39	0.00	4824.04	1907125.61	11965493.99	692.66
8400.00	90.60	359.6	2934.11	4859.08	-2159.73	0.00	4874.04	1907125.27	11965543.98	693.19
8450.00	90.60	359.6	2933.59	4909.08	-2160.08	0.00	4924.04	1907124.92	11965593.98	693.71
8500.00	90.60	359.6	2933.07	4959.07	-2160.43	0.00	4974.04	1907124.57	11965643.97	694.24
8550.00	90.60	359.6	2932.54	5009.07	-2160.78	0.00	5024.03	1907124.22	11965693.97	694.76
8600.00	90.60	359.6	2932.02	5059.07	-2161.13	0.00	5074.03	1907123.87	11965743.97	695.28
8650.00	90.60	359.6	2931.49	5109.06	-2161.48	0.00	5124.03	1907123.52	11965793.96	695.81
8700.00	90.60	359.6	2930.97	5159.06	-2161.83	0.00	5174.03	1907123.17	11965843.96	696.33
8750.00	90.60	359.6	2930.45	5209.06	-2162.18	0.00	5224.02	1907122.82	11965893.96	696.85
8800.00	90.60	359.6	2929.92	5259.05	-2162.53	0.00	5274.02	1907122.47	11965943.95	697.38
8850.00	90.60	359.6	2929.40	5309.05	-2162.88	0.00	5324.02	1907122.12	11965993.95	697.90
8900.00	90.60	359.6	2928.88	5359.04	-2163.23	0.00	5374.01	1907121.78	11966043.94	698.42
8950.00	90.60	359.6	2928.35	5409.04	-2163.57	0.00	5424.01	1907121.43	11966093.94	698.95
9000.00	90.60	359.6	2927.83	5459.04	-2163.92	0.00	5474.01	1907121.08	11966143.94	699.47
9050.00	90.60	359.6	2927.31	5509.03	-2164.27	0.00	5524.01	1907120.73	11966193.93	699.99
9100.00	90.60	359.6	2926.78	5559.03	-2164.62	0.00	5574.00	1907120.38	11966243.93	700.52
9150.00	90.60	359.6	2926.26	5609.02	-2164.97	0.00	5624.00	1907120.03	11966293.92	701.04
9200.00	90.60	359.6	2925.73	5659.02	-2165.32	0.00	5674.00	1907119.68	11966343.92	701.57
0050 00	00.00	250.6	2025.24	E700 00	0405.07	0.00	E704 00	4007440 22	110000000000	700.00
9250.00	90.60	359.6	2925.21	5709.02	-2165.67	0.00	5724.00	1907119.33	11966393.92 11966443.91	702.09
9300.00	90.60	359.6	2924.69	5759.01	-2166.02	0.00	5773.99	1907118.98		702.61
9350.00	90.60	359.6	2924.16	5809.01	-2166.37	0.00	5823.99	1907118.63	11966493.91	703.14
9400.00	90.60	359.6	2923.64	5859.00	-2166.72	0.00	5873.99	1907118.28	11966543.90	703.66
9450.00	90.60	359.6	2923.12	5909.00	-2167.06	0.00	5923.98	1907117.94	11966593.90	704.18
9500.00	90.60	359.6	2922.59	5959.00	-2167.41	0.00	5973.98	1907117.59	11966643.90	704.71
9550.00	90.60	359.6	2922.07	6008.99	-2167.76	0.00	6023.98	1907117.24	11966693.89	705.23
9600.00	90.60	359.6	2921.55	6058.99	-2168.11	0.00	6073.98	1907116.89	11966743.89	705.75

Page 5 of 6 SES v5.79 www.makinhole.co

Operator Mack Energy Corp Units feet, °/100ft 14:30 Tuesday, April 2, 2024 Page 6 of 6

Field Round Tank County Eddy Vertical Section Azimuth 359.6

Well Name Hudson Bay State Com #1H State NM Survey Calculation Method Minimum Curvature
Plan 1 Country USA Database Access

Location SL: 933 FSL & 795 FEL Section 1-T16S-R28E BHL: 1 Map Zone UTM Lat Long Ref

FNL & 2310 FWL Section 1-T16S-R28E

 Site
 Surface X 1909285
 Surface Long

 Slot Name
 UWI
 Surface Y 11960684.9
 Surface Lat

 Well Number 1H
 API
 Surface Z 3627.3
 Global Z Ref KB

 Project
 MD/TVD Ref KB
 Ground Level 3609.8
 Local North Ref Grid

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN* S	ysTVD*
ft	doa	doa	ft	ft	ft	°/100ff	ft	ft	ft	ft
9650.00	90.60	359.6	2921.02	6108.98	-2168.46	0.00	6123.97	1907116.54	11966793.88	706.28
9700.00	90.60	359.6	2920.50	6158.98	-2168.81	0.00	6173.97	1907116.19	11966843.88	706.80
9750.00	90.60	359.6	2919.98	6208.98	-2169.16	0.00	6223.97	1907115.84	11966893.88	707.32
9800.00	90.60	359.6	2919.45	6258.97	-2169.51	0.00	6273.97	1907115.49	11966943.87	707.85
9850.00	90.60	359.6	2918.93	6308.97	-2169.86	0.00	6323.96	1907115.14	11966993.87	708.37
9900.00	90.60	359.6	2918.40	6358.96	-2170.21	0.00	6373.96	1907114.79	11967043.86	708.90
*** TD (at MD	= 9930.57)									
9930.57	90.60	359.6	2918.08	6389.53	-2170.42	0.00	6404.53	1907114.58	11967074.43	709.22

ge 6 of 6 SES v5.79 www.makinhole.com

Inten [.]	t XXX	As Dril	led											
API#														
•	rator Nar CK ENE	N	Property Name: HUDSON BAY STATE								Well Number			
(ick (Off Point	(KOP)												
UL P	Section 1	Township 16S	Range 28E	Lot	Feet 933		rom N		Feet 795		From	E/W T	County EDDY	
Latitu 32.9	ide 947717	1			Longitu 104.	ude 12370	84			•			NAD 83	
					<u> </u>									
First 1	Take Poin	it (FTP)												
UL K	Section 1	Township 16S	Range 28E	Lot	Feet 1420		rom N	-	Feet 2310		From E/W WEST		County EDDY	
Latitu 32.9	^{ide} 949223	3			_	5							NAD 83	
oct T	iaka Dain	+ (LTD)												
UL	ake Poin Section	Township	Range	Lot	Feet	From	N/S	Feet		From I	E/W	Count	ty	
Latitu	1 ıde	16S	28E	3	100 Longitu	NORTH 2310 WEST EDDY						Y		
32.9	965056	7			_	4.1307582 83								
s this	well the	defining v	vell for th	e Horiz	zontal S _l	pacing l	Jnit?]				
s this	well an	infill well?												
	l is yes p ng Unit.	lease prov	ide API if	availak	ole, Ope	rator Na	ame a	and v	vell n	umber	for [Definir	ng well fo	or Horizontal
API#]											
Operator Name:						Property Name:							Well Number	
														K7 06/29/201