Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000

5. Property Name

DOVETAIL 18 7 STATE COM

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

Midland, TX 79701

1. Operator Name and Address

337451

WILSON; BONE SPRING, NORTH

4. Property Code

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

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Form C-101 August 1, 2011 Permit 394122

97704

Lea

Lea

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE 2. OGRID Number 372165 3. API Number 30-025-54851 6. Well No. 131H NI/O L in E a a t E a

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
М	18	21S	35E	4	509	S	668	W	
				8. Proposed Bo	ttom Hole Location				
UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	7	21S	35E	1	100	N	660	W	

9. Pool Information

7. Surface Location

Additional Well Information 11. Work Type 12. Well Type 13. Cable/Rotary 15. Ground Level Elevation 14. Lease Type New Well OIL State 3638 16. Multiple 17. Proposed Depth 18. Formation 19. Contractor 20. Spud Date Ν 20948 3rd Bone Spring Sand 8/29/2025 Distance from nearest fresh water well Depth to Ground water Distance to nearest surface water

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

	21.1 roposed dasing and cement rogram									
Туре	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC				
Surf 17.5 13.375			54.5	1680	1270	0				
Int1	12.25	9.625	40	5755	1520	0				
Prod	8.5	5.5	20	20948	1790	10260				
Prod	8.75	5.5	20	11010	720	5255				

21 Proposed Casing and Coment Program

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program								
Туре	Working Pressure	Test Pressure	Manufacturer					
Annular	2500	2500						
Double Ram	5000	5000						
Pipe	5000	5000						

knowledge and b	belief. have complied with 19.15	n above is true and complete to the best of .14.9 (A) NMAC 🛛 and/or 19.15.14.9 (B) N		OIL CONSERVATION DIVISION				
Printed Name:	Electronically filed by S	tephanie Rabadue	Approved By:	Jeffrey Harrison				
Title:	Regulatory Manager		Title:	Petroleum Specialis	t III			
Email Address:	stephanie.rabadue@p	ermianres.com	Approved Date:	7/23/2025	Expiration Date: 7/23/2027			
Date:	Date: 7/18/2025 Phone: 432-260-4388			Conditions of Approval Attached				

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<u>C-10</u>	<u>)2</u>		En	ergy, Miı	State of Ne nerals & Natu	ew Mexico ral Resources Dep	artment			Revised July 9, 2024
	Electronically	Y		OILC	CONSERVA [®]	TION DIVISION				
Via OCI) Permitting						Submittal	☑ Initial Submittal		
							Type:		•	
									🗆 As Drille	ed
			1			ON INFORMATION				
API Nu	umber 0-025-54	4851	Pool Code	9770	4	Pool Name Wilsor	n; Bone S	Spring N	lorth	
	ty Code	34547	Property N			18 7 STATE COM	Well Numb	er 131H		
OGRID No. Operato 372165										vel Elevation
		5 wner: 🔀 Stat							I ∃ Tribal □ Fe	3,638'
	Surface O	X Stat	e 🗆 Fee 🗆		Federal	Mineral Ow				ederal
	,				Surfa	ce Location		·		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County
	18	21S	35E	LOT 4	509' FSL	668' FWL	32.473	175° -10	03.412745°	LEA
					Bottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County
	7	21S	35E	LOT 1	100' FNL	660' FWL	32.500	542° -10	03.412745°	LEA
	ted Acres	Infill or Defir	ning Well	Defining	Well API	Overlapping Spacing	g Unit (Y/N)	Consolidat	ion Code	
285 Infill			025-51731			Y	2,0			
Order Numbers C: 205010; O:R-22739A				4	Well setbacks are under Common Ownership: X Yes \Box No					
					Kick Of	f Point (KOP)				
UL	Section	tion Township Range		Lot	Ft. from N/S	Ft. from E/W	Latitude	Lo	ongitude	County
0L	18	21S	35E	LOT 4	509' FSL	668' FWL			03.412745°	LEA
						ke Point (FTP)	•===•			
UL	Section	Township	Range	Lot	Filst Ta	Ft. from E/W	Latitude	La	ongitude	County
01	18	215	35E	LOT 4	100' FSL	660' FWL	32.472)3.412772°	LEA
		210	002	2014		ke Point (LTP)	02.472			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Lc	ongitude	County
	7	215	35E	LOT 1	100' FNL	660' FWL	32.500		03.412745°	LEA
Unitize	d Area or A	rea of Uniform	n Interest	Spacing	Unit Type X ∃ Ho	rizontal 🗆 Vertical	Grou	nd Floor Ele	vation:	
OPER	ATOR CER	TIFICATIONS				SURVEYOR CERTIF	ICATIONS			
				n is true and	complete to the			own on this pl	at was platted	from field notes of
best of	my knowledge	e and belief, and	d, if the well is	a vertical or	directional well,	I hereby certify that the v actual surveys made by	me an under m	y supervision	, and that the s	ame is true and
in the la	ind including t	he proposed bo	ottom hole loca	ation or has a	d mineral interest a right to drill this	actual surveys made by correct to the bestar my	MEV. 7	\mathbf{X}		
					orking interest or or a compulsory	A AN	METICO	~		
pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.							2177			
						RECE	Almal	De		
						(A)	- St			
						AN ON	FESSIONAL			
Signal	In	per l			/16/2025	~		Date: 7/14/2025		
Signatu			D	late		Signature and Seal of Pr	oressional Sur	veyor		
Jer	nifer El	rod					i			
Drintad	Name					Certificate Number	Date of Sur	/ey		
Printed Name C										
	od@ntgl	obal.com	<u> </u>			12177		7.	/14/2025	

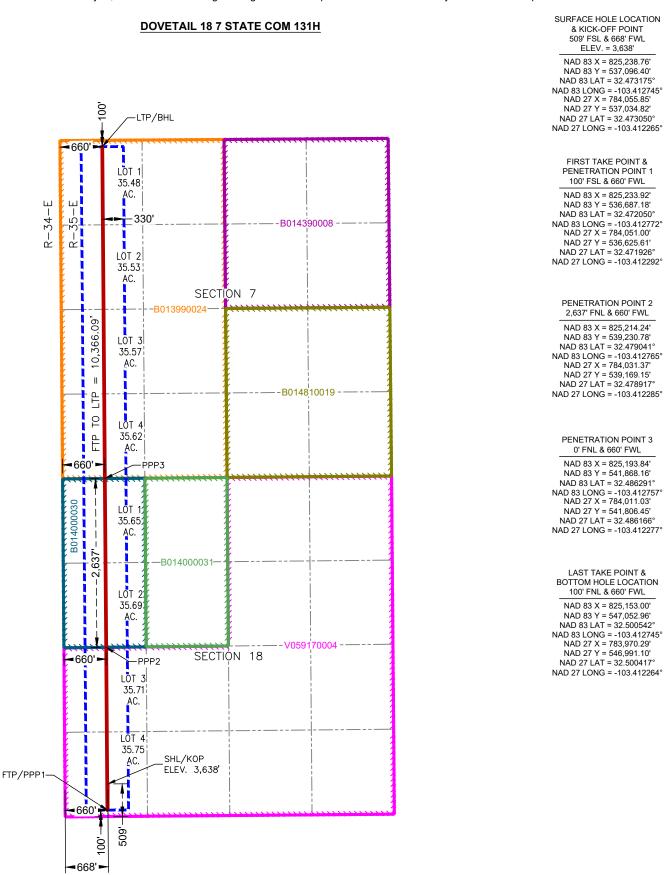
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division. **Released to Imaging:** 7/23/2025 1:23:09 PM

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Received by OCD: 7/18/2025 12:35:31 PM ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



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

PERMIT CONDITIONS OF APPROVAL

Operator Name an	nd Address:	API Number:				
Permi	an Resources Operating, LLC [372165]	30-025-54851				
300 N	. Marienfeld St Ste 1000	Well:				
Midlar	nd, TX 79701	DOVETAIL 18 7 STATE COM #131H				
OCD Reviewer	Condition					
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.					
jeffrey.harrison	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.					
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.					
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from th fresh water zone or zones and shall immediately set in cement the water protection string.	e surface, the operator shall drill without interruption through the				
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation mud, drilling fluids and solids must be contained in a steel closed loop system.	from the oil or diesel. This includes synthetic oils. Oil based				
jeffrey.harrison	Cement is required to circulate on both surface and intermediate1 strings of casing.					
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casin	g.				
jeffrey.harrison	Proposed well is located within the Capitan Aquifer Reef zone. Casing requirements for this area stipul water and that casing be set and cemented to surface immediately below the Capitan to isolate it from					

Form APD Conditions

Permit 394122

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State of New Mexico Energy, Minerals and Natural Resources Department

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

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.

<u>Section 1 – Plan Description</u> <u>Effective May 25, 2021</u>

I. Operator: <u>Permian Resources Operating, LLC</u> OGRID: <u>372165</u> Date: 7/10/2025

II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square Other. If Other, please describe:

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	ΑΡΙ	ULSTR	Footages	Anticipated Oil	Anticipated Gas	Anticipated Prod Water
Dovetail 18 7 State Com 131H		Lot 4-18-21S-35E	_509' FSL & 668' FWL	1500 BOPD	1900 MCFD	4900 BWPD
Dovetail 18 7 State Com 132H		Lot 4-18-21S-35E	_506' FSL & 701' FWL	<u>1500 BOPD</u>	1900 MCFD	4900 BWPD

IV. Central Delivery Point Name: ______ Dovetail CTB

[See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or recompleted from a single well pad or connected to a central delivery point.

Well Name	ΑΡΙ	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Dovetail 18 7 State Com 131H		09/08/2025	9/20/2025	3/15/2026	4/1/2026	4/1/2026
Dovetail 18-7 State Com 132H		09/08/2025	10/2/2025	3/15/2026	4/1/2026	4/1/2026

VI. Separation Equipment: ☑ Attach a complete description of how Operator will seize separation equipment to optimize gas capture.

VII. Operations Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: 🗹 Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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.

X 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	Name	ΑΡΙ	Anticipated Average Natural Gas Rate	Anticipated Volume of Natural Gas for the First Year
			-	
			J	

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Volume of Natural Gas for the First Year

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 system(s) to which the well(s) will be connected.

XII. Line Capacity. Operator 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: 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 attached a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 – Certifications

Effective May 25, 2021

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

 \square 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, not 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 and update for each Natural Gas Management Plan until the Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
 - (c) OCD may deny or conditionally approve and 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, 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.

criminal penalties under the Oil and Gas Act.
Signature:
Printed Name: Jennifer Elrod
Title: Sr. Regulatory Analyst
E-mail Address: jennifer.elrod@permianres.com
Date: 7/10/2025
Phone: 940-452-6214
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan Descriptions

VI. Separation Equipment:

Permian Resources Operating, LLC (Permian) utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations. Our goal is to maintain 5 minutes of retention time in the test vessel and 20 minutes in the heater treater at peak production rates. The gas produced is routed from the separator to the gas sales line.

VII. Operational Practices:

Drilling

During Permian's drilling operations it is uncommon for venting or flaring to occur. If flaring is needed due to safety concerns, gas will be routed to a flare and volumes will be estimated.

Flowback

During completion/recompletion flowback operations, after separation flowback begins and as soon as it is technically feasible, Permian routes gas though a permanent separator and the controlled facility where the gas is either sold or flared through a high-pressure flare if needed.

Production

Per 19.15.27.8.D, Permian's facilities are designed to minimize waste. Our produced gas will only be vented or flared in an emergency or malfunction situation, except as allowed for normal operations noted in 19.15.27.8.D(2) & (4). All gas that is flared is metered. All gas that may be vented will be estimated.

Performance Standards

Permian utilizes a production forecast from our Reservoir Engineering team to appropriately size each permanent, 3-phase separator and heater treater utilized for production operations.

All of Permian's permanent storage tanks associated with production operations which are routed to a flare or control device are equipped with an automatic gauging system.

All of Permian's flare stacks, both currently installed and for future installation, are:

1) Appropriately sized and designed to ensure proper combustion effciency.

2)Equipped with an automatic ignitor or continuous pilot.

3) Anchored and located at least 100 feet from the well and storage tanks.

Permian's field operations and HSE teams have implemented an AVO inspection schedule that adheres to the requirements of 19.15.27.8.E(5).

All of our operations and facilities are designed to minimize waste. We routinely employ the following methods and practices:

- Closed-loop systems
- Enclosed and properly sized tanks

- Vapor recovery units to maximize recovery of low-pressure gas streams and potential unauthorized emissions
- Low-emitting or electric engines whenever practical
- Combustors and flare stacks in the event of a malfunction or emergency
- Routine facility inspections to identify leaking components, functioning control devices, such as flares and combustors, and repair / replacement of malfunctioning components where applicable

Measurement or estimation

Permian measures or estimates the volumes of natural gas vented, flared and/or beneficially used for all of our drilling, completing and producing wells. We utilize accepted industry standards and methodology which can be independently verified. Annual GOR testing is completed on our wells and will be submitted as required by the OCD. None of our equipment is designed to allow diversion around metering elements except during inspection, maintenance and repair operations.

VIII. Best Management Practices:

Permian Resources utilizes the following BMPs to minimize venting during active and planned maintenance activities:

- Use a closed-loop process wherever possible during planned maintenance activities, such as blowdowns, liquid removal, and work over operations.
- Employ low-emitting or electric engines for equipment, such as compressors
- Adhere to a strict preventative maintenance program which includes routine facility inspections, identification of component malfunctions, and repairing or replacing components such as hatches, seals, valves, etc. where applicable
- Utilize vapor recovery units (VRU's) to maximize recovery of volumes of low-pressure gas streams and potential unauthorized emissions
- Route low pressure gas and emissions streams to a combustion device to prevent venting where necessary

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Enhanced Natural Gas Management Plan

Operator's Plan to Manage Production in Response to Increased Line Pressure

Permian Resources Operating, LLC (Permian) anticipates that its existing wells connected to the same portion of the natural gas gathering system will continue to meet anticipated increases in line pressure caused by the new wells. Permian will actively monitor line pressure throughout the field and will make necessary adjustments to existing production separators' pressures to send gas to sales. Permian also plans to implement automated alarms on all flare meters to alert of flaring events as they occur. The alarms will send notifications to field operations and engineering staff via text message and email at every occurrence of flaring. In addition, Permian plans to implement automated alarms on all flare meters to alert of rat least 4 hours. The alarms will send notifications to field operations and engineering management. Permian personnel will promptly respond to these alarms, communicate with midstream partners, and take the appropriate action to reduce flaring caused by high line pressure from new well production.

NEW MEXICO

(SP) LEA DOVETAIL 18-17 PROJECT DOVETAIL 18-7 ST 131H

OWB

Plan: PWP0

Standard Planning Report - Geographic

15 July, 2025

Planning Report - Geographic

Database:Compass_17Company:NEW MEXICOProject:(SP) LEASite:DOVETAIL 18-17 PROJECTWell:DOVETAIL 18-7 ST 131HWellbore:OWBDesign:PWP0				Local Co-ordinate Reference:Well DOVETAIL 18-7 ST 131HTVD Reference:KB @ 3668.0usftMD Reference:KB @ 3668.0usftNorth Reference:GridSurvey Calculation Method:Minimum Curvature					31H	
Project	(SP) L	EA								
Map System:US State Plane 1983Geo Datum:North American Datum 1983Map Zone:New Mexico Eastern Zone					System D	atum:	М	ean Sea Level		
Site	DOVE	TAIL 18-17 P	ROJECT							
Site Position: From: Position Uncerta	Ma i nty :	p 0.0	North Easti usft Slot F	•	825,1	06.63 usft 39.29 usft 3-3/16 "	Latitude: Longitude:			32° 28' 23.538 N 103° 24' 47.043 W
Well	DOVE	TAIL 18-7 ST	131H							
Well Position Position Uncerta Grid Convergenc	-	0 0	.0 usft Ea	orthing: asting: ellhead Elev	vation:	537,096.40 825,238.76	usfi Lo	titude: ngitude: ound Level:		32° 28' 23.429 N 103° 24' 45.883 W 3,638.0 usfl
Wellbore	OWB									
Magnetics		del Name IGRF200510	Sampl	e Date 2/31/2009	Declina (°)			Angle °) 60.50	(1	Strength 1 T) 19.81951686
Design	PWP0									
Audit Notes: Version:	1 111 0		Phas	se:	PROTOTYPE	Tie	e On Depth:		0.0	
Vertical Section:		De	epth From (T (usft) 0.0	VD)	+N/-S (usft) 0.0	(u	:/ -W sft)).0		ection (°) 59.51	
Plan Survey Too Depth From (usft) 1 0.0	Depti (us	h To	7/15/2025 y (Wellbore) (OWB)		Tool Name MWD OWSG_Rev	2_ MWD - Si	Remarks tar			
Plan Sections										
Measured Depth Incl (usft)	ination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0 2,000.0 2,500.0 4,642.1 5,142.1 10,260.1 11,010.1 20 948 5	0.00 0.00 10.00 10.00 0.00 90.00 90.00	0.00 0.00 180.60 180.60 0.00 0.00 359.55 359.55	0.0 2,000.0 2,497.5 4,607.1 5,104.5 10,222.5 10,700.0	0.0 -43.5 -415.5 -459.0 -459.0 18.4	0.0 0.0 -0.5 -4.4 -4.8 -4.8 -8.5 -8.5	0.00 0.00 2.00 0.00 2.00 0.00 12.00	0.00 0.00 2.00 0.00 -2.00 0.00 12.00	0.00 0.00 0.00 0.00 0.00 -0.06	0.00 0.00 180.60 0.00 180.00 0.00 359.55	
20,948.5	90.00	359.55	10,700.0	9,956.6	-85.8	0.00	0.00	0.00	0.00	BHL-DOVETAIL 18-

7/15/2025 2:35:16PM

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well DOVETAIL 18-7 ST 131H
Company:	NEW MEXICO	TVD Reference:	KB @ 3668.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3668.0usft
Site:	DOVETAIL 18-17 PROJECT	North Reference:	Grid
Well:	DOVETAIL 18-7 ST 131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB	-	
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0 2,000.0		0.00 0.00	0.0 2,000.0	0.0 0.0	0.0 0.0	537,096.40 537,096.40	825,238.76 825,238.76	32° 28' 23.429 N 32° 28' 23.429 N	103° 24' 45.883 W 103° 24' 45.883 W
	uild 2.00								
2,500.0	10.00	180.60	2,497.5	-43.5	-0.5	537,052.88	825,238.30	32° 28' 22.998 N	103° 24' 45.893 W
Start 2	142.1 hold at	2500.0 MD							
4,642.1	10.00	180.60	4,607.1	-415.5	-4.4	536,680.92	825,234.38	32° 28' 19.318 N	103° 24' 45.976 W
Start D	rop -2.00								
5,142.1	0.00	0.00	5,104.5	-459.0	-4.8	536,637.40	825,233.92	32° 28' 18.887 N	103° 24' 45.986 W
Start 5	118.0 hold at	5142.1 MD							
10,260.1	0.00	0.00	10,222.5	-459.0	-4.8	536,637.40	825,233.92	32° 28' 18.887 N	103° 24' 45.986 W
Start D	LS 12.00 TF	O 359.55							
11,010.1	90.00	359.55	10,700.0	18.4	-8.5	537,114.85	825,230.21	32° 28' 23.612 N	103° 24' 45.981 W
Start 99	938.4 hold at	11010.1 ME)						
20,948.5	90.00	359.55	10,700.0	9,956.6	-85.8	547,052.96	825,153.00	32° 30' 1.950 N	103° 24' 45.881 W
TD at 2	0948.5								

Design Targets

Target Name - hit/miss target [- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP-DOVETAIL 18-7 - plan misses target - Point	0.00 t center by		10,700.0 at 10674.2u	-409.2 sft MD (1058	-4.8 6.6 TVD, -29	536,687.18 90.4 N, -6.1 E)	825,233.92	32° 28' 19.380 N	103° 24' 45.981 W
PP3-DOVETAIL 18-7 - plan misses target - Point	0.00 t center by	0.00 4753.5usft	,	4,771.8 usft MD (107	-44.9 00.0 TVD, 1	541,868.16 8.4 N, -8.5 E)	825,193.84	32° 29' 10.646 N	103° 24' 45.927 W
PP2-DOVETAIL 18-7 - plan misses target - Point	0.00 t center by		,	2,134.4 usft MD (107	-24.5 00.0 TVD, 1	539,230.78 8.4 N, -8.5 E)	825,214.24	32° 28' 44.549 N	103° 24' 45.954 W
BHL-DOVETAIL 18-7 - plan hits target cer	0.00 nter	0.00	10,700.0	9,956.6	-85.8	547,052.96	825,153.00	32° 30' 1.950 N	103° 24' 45.881 W

- Point

Planning Report - Geographic

Database:	Compass_17	Local Co-ordinate Reference:	Well DOVETAIL 18-7 ST 131H
Company:	NEW MEXICO	TVD Reference:	KB @ 3668.0usft
Project:	(SP) LEA	MD Reference:	KB @ 3668.0usft
Site:	DOVETAIL 18-17 PROJECT	North Reference:	Grid
Well:	DOVETAIL 18-7 ST 131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Formations

Measured Depth (usft)	Vertical Depth (usft)		Name	Lithology	Dip (°)	Dip Direction (°)	
3,496.7	3,479.0	YTES					
4,082.2	4,055.6	CPTN					
5,743.0	5,705.4	CYCN					
6,692.4	6,654.7	BYCN					
7,788.7	7,751.1	Basal BYCN					
8,136.4	8,098.8	BSGL					
8,140.0	8,102.4	BSGL					
8,393.1	8,355.5	LNRD					
9,277.5	9,239.9	FBSG Sand					
9,843.5	9,805.9	SBSG Sand					
10,821.0	10,663.0	TBSG Sand					

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.0	2,000.0	0.0	0.0	Start Build 2.00
2,500.0	2,497.5	-43.5	-0.5	Start 2142.1 hold at 2500.0 MD
4,642.1	4,607.1	-415.5	-4.4	Start Drop -2.00
5,142.1	5,104.5	-459.0	-4.8	Start 5118.0 hold at 5142.1 MD
10,260.1	10,222.5	-459.0	-4.8	Start DLS 12.00 TFO 359.55
11,010.1	10,700.0	18.4	-8.5	Start 9938.4 hold at 11010.1 MD
20,948.5	10,700.0	9,956.6	-85.8	TD at 20948.5

Permian Resources - Dovetail 18 7 State Com 131H

1. Geologic Formations

Formation	Elevation	TVD	Target
Rustler	2013	1655	No
Salado (Top of Salt)	1923	1745	No
Yates	189	3479	No
Capitan	-387	4055	No
Cherry Canyon	-2037	5705	No
Brushy Canyon	-2986	6654	No
Bone Spring Lime	-4430	8098	No
1st Bone Spring Sand	-5571	9239	No
2nd Bone Spring Sand	-6137	9805	No
3rd Bone Spring Sand	-6995	10663	Yes
Wolfcamp	-7110	10778	No

2. Blowout Prevention

and tested before drilling which	Size?	Min. Required WP	Туре		x	Tested to:	
			Annu	ılar	Х	2500 psi	
			Blind F	Ram	Х		
12.25	13-5/8"	5M	Pipe Ram		Х	5000 psi	
			Double	Ram		5000 psi	
			Other*				
			Annu	ılar	Х	2500 psi	
			Blind Ram		Х	5000 psi	
8.75	13-5/8"	5M	Pipe Ram		Х		
			Double Ram				
			Other*				

Equipment: BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

Requesting Variance? YES

Variance request: Flex hose and offline cement variances, see attachments in section 8. Testing Procedure: The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multibowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both

Choke Diagram Attachment: 5M Choke Manifold BOP Diagram Attachment: BOP Schematics

3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1680	0	1680	1680	J55	54.5	BTC	1.36	1.43	Dry	4.75	Dry	4.45
Intermediate	12.25	9.625	0	5755	0	5755	5755	J55	40	BTC	2.20	1.43	Dry	2.16	Dry	1.91
Production	8.75	5.5	0	11010	0	10700	11010	P110RY	20	Bushmast	1.90	1.98	Dry	2.04	Dry	2.04
Production	8.5	5.5	11010	20948	10700	10700	9938	P110RY	20	Bushmast	1.90	1.98	Dry	2.04	Dry	2.04
									in Safe	ety Factor	1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quanity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	lead	0	1340	1000	1.88	12.9	1870	100%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Surface	Tail	1340	1680	270	1.34	14.8	360	50%	Class C	Accelerator
Intermediate	Lead	3504	4600	280	1.88	12.9	520	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate	Tail	4600	5755	420	1.34	14.8	550	50%	Class C	Retarder
Stage Tool Depth		3504								
Intermediate 2nd Stage	Lead	0	3004	660	1.88	12.9	1240	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 2nd Stage	Tail	3004	3504	160	1.33	14.8	200	25%	Class C	Salt
Production	Lead	5255	10260	720	2.41	11.5	1730	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	10260	20948	1790	1.73	12.5	3090	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

Bradenhead Variance Procedure

Intermediate Casing

Permian Resources requests to pump a two-stage cement job on the 2nd intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

5. Circulating Medium

Mud System Type: Closed

Will an air or gas system be used: No

Describe what will be on location to control well or mitigate oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

Describe the mud monitoring system utilized: Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

Cuttings Volume: 12260 Cu Ft

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	1680	Spud Mud	8.6	9.5
1680	5755	Water Based Mud	10	10
5755	11010	Water Based Mud	9	10.5
11010	20948	OBM	9	10.5

Circulating Medium Table

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well. List of open and cased hole logs run in the well: DIRECTIONAL SURVEY, GAMMA RAY LOG, Coring operation description for the well: N/A

7. Pressure

Anticipated Bottom Hole Pressure	5850	psi
Anticipated Surface Pressure	3488	psi
Anticipated Bottom Hole Temperature	162	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

8. Waste Management

Waste Type:	Drilling
Waste content description:	Fresh water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Weekly (after drilling all surfaces)
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Grey Water & Human Waste
Waste content description:	Grey Water/Human Waste
Amount of waste:	5000 gallons
Waste disposal frequency:	Weekly
Safe containment description:	Approved waste storage tanks with containment
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Garbage
Waste content description:	General trash/garbage
Amount of waste:	5000 lbs
Waste disposal frequency:	Weekly
Safe containment description:	Enclosed trash trailer
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Drilling
Waste content description:	Drill Cuttings
Amount of waste:	12260 Cu Ft
Waste disposal frequency:	Per well
Safe containment description:	Steel tanks
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial
Waste Type:	Drilling
Waste content description:	Brine water based drilling fluid
Amount of waste:	1500 bbls
Waste disposal frequency:	Monthly
Safe containment description:	Steel tanks with plastic-lined containment berms
Waste disposal type:	Haul to commercial facility
Disposal location ownership:	Commercial

9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached WBD: attached Flex Hose Specs: attached Offline Cementing Procedure Attached:



5.500 x 20.00# P-110 RY Bushmaster[®] SP SC 95% RBW (SeAH Pipe Body)

Pipe Body Data				
Nominal OD	5.500	Inches		
Wall Thickness	0.361	Inches		
Weight	20.00	lb/ft		
PE Weight	19.83	lb/ft		
Nominal ID	4.778	Inches		
Drift	4.653	Inches		
Minimum Yield Strength	110,000	PSI		
Minimum Tensile Strength	125,000	PSI		
RBW	95.0%	Rating		

Connection DataConnection OD6.050InchesConnection ID4.778InchesMake-Up Loss4.209InchesTension Efficiency100%Rating		
Connection OD	6.050	Inches
Connection ID	4.778	Inches
Make-Up Loss	4.209	Inches
Tension Efficiency	100%	Rating
Compression Efficiency	100%	Rating
Yield Strength in Tension	641,000	LBS.
Yield Strength in Compression	641,000	LBS.
MIYP (Burst)	13,720	PSI
Collapse Pressure	11,100	PSI
Uniaxial Bending	92	⁰/100 FT

Make-Up	Torques	
Yield Torque	46,600	FT-LBS.
Max Operating Torque	37,300	FT-LBS.
Max Make-Up	17,900	FT-LBS.
Optimum Make-Up	16,300	FT-LBS.
Minimum Make-Up	14,700	FT-LBS.

Buck-On Torques				
Max Buck-On	19,900	FT-LBS.		
Optimum Buck-On	18,300	FT-LBS.		
Minimum Buck-On	16,700	FT-LBS.		



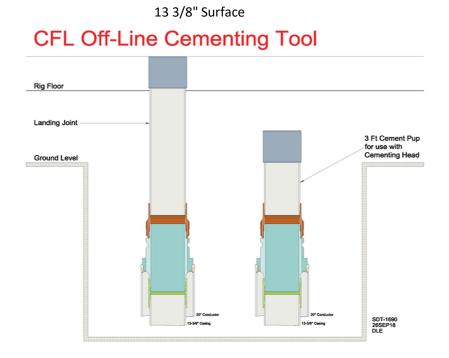
For Technical Support please email support@fermata-tech.com or call (281) 941-5257.

1/25/2024

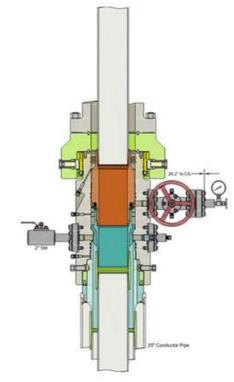
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Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

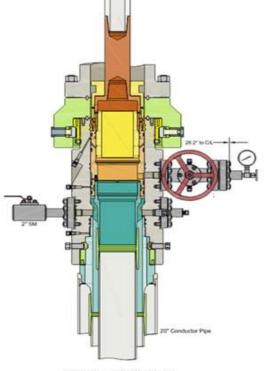
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple down BOP and install cap flange.
- 8. Skid rig to next well on pad
- 9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 10. Install offline cement tool.
- 11. Rig up cementers.
- 12. Circulate bottoms up with cement truck
- 13. Commence planned cement job, take returns through the annulus wellhead valve
- 14. After plug is bumped confirm floats hold and well is static
- 15. Rig down cementers and equipment
- 16. Install night cap with pressure gauge to monitor.



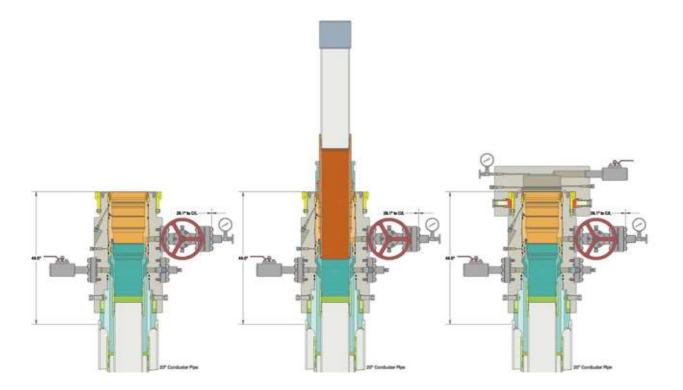
Intermediate



Run 7 5/8" Casing Land Casing on 7 5/8" Mandrel Hanger Cement 7 5/8" Casing Retrieve Running Tool



Run 9 5/8" Packoff Test Upper and Lower Seals Engage Lockring Retrieve Running Tool





Permian Resources Multi-Well Pad Batch Drilling Procedure

<u>Surface Casing</u> - PR intends to Batch set all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a rig. Appropriate notifications will be made prior to spudding the well, running and cementing casing and prior to skidding to the rig to the next well on pad.

- 1. Drill Surface hole to Approved Depth with Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run and land planned surface casing see Illustration 1-1 Below to depth approved in APD.
- 3. Set packoff and test to 5k psi
- 4. Offline Cement
- 5. Install wellhead with pressure gauge and nightcap. Nightcap is shown on final wellhead Stack up Illustration #2-2.
- 6. Skid Rig to adjacent well to drill Surface hole.
- 7. Surface casing test will be performed by the rig in order to allow ample time for Cement to develop 500psi compressive strength. Casing test to 0.22 psi/ft or 1500 psi whichever is greater not to exceed 70% casing burst.

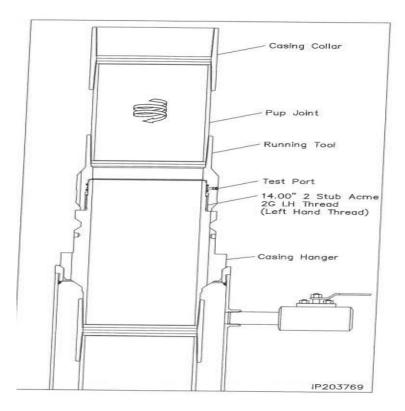


Illustration 1-1

<u>Intermediate Casing</u> – PR intends to Batch set all intermediate casing strings to a depth approved in the APD. Intermediate Holes will be batch drilled by the rig. Appropriate notifications will be made prior to testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Test Surface casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 3. Install wear bushing then drill out surface casing shoe-track plus 20' and conduct FIT to minimum of the MW equivalent anticipated to control the formation pressure to the next casing point.
- 4. Drill Intermediate hole to approved casing point. Trip out of hole with BHA to run Casing.
- 5. Remove wear bushing then run and land Intermediate Casing with mandrel hanger in wellhead.
- 6. Cement casing to surface with floats holding.
- 7. Washout stack then run wash tool in wellhead and wash hanger and pack-off setting area.
- 8. Install pack-off and test void to 5,000 psi for 15 minutes. Nightcap shown on final wellhead stack up illustration 2-2 on page 3.
- 9. Test casing per COA WOC timing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst. Cement must have achieved 500psi compressive strength prior to test.
- 10. Install nightcap skid rig to adjacent well to drill Intermediate hole.

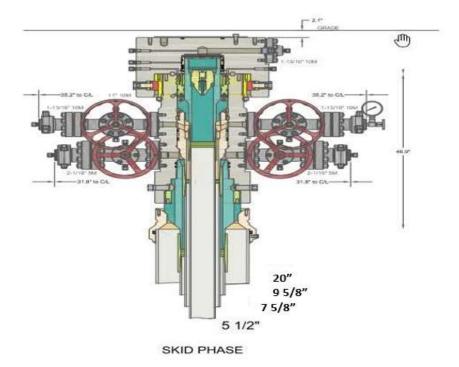
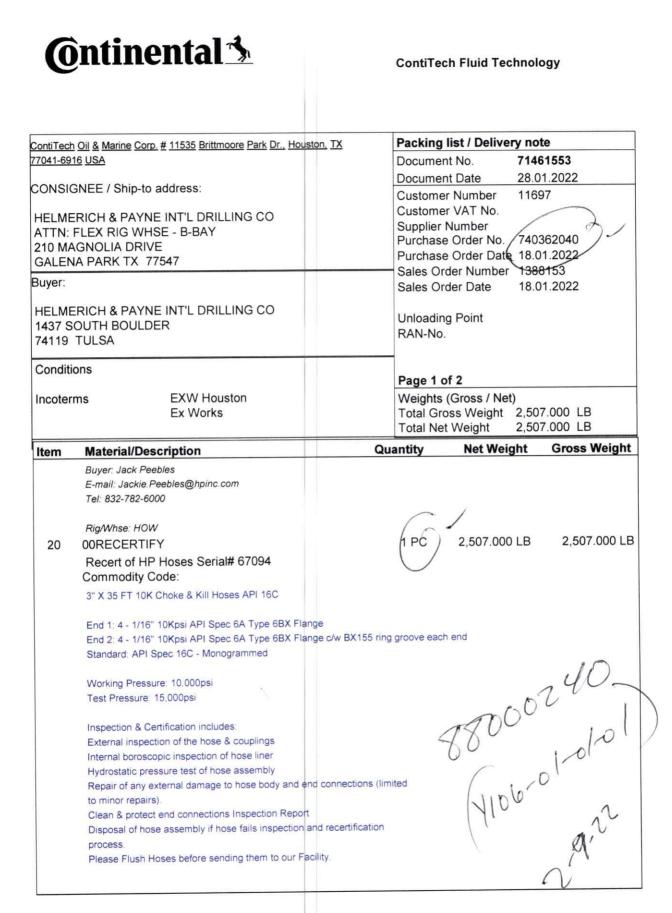


Illustration 2-2

<u>Production Casing</u> – PR intends to Batch set all Production casings with Rig. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Drilling Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track plus 20' and conduct FIT to minimum MW equivalent to control the formation pressure to TD of well.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
- 6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
- 7. Cement Production string with floats holding.
- 8. Run in with wash tool and wash wellhead area install pack-off and test void to 5,000psi for 15 minutes.
- 9. Install BPV in Production mandrel hanger Nipple down BOPE and install nightcap.
- 10. Test nightcap void to 5,000 psi for 30 minutes per illustration 2-2
- 11. Skid rig to adjacent well on pad to drill production hole.



COMMERZBANK ZRT. (HUF)

H-1245 Budapest P.O. Box 1070 Account No.: 14220108-26830003

H-1054 Budapest, Széchenyi rakpart 8.

ContiTech Rubber Industrial Kft H-6728 Szeged Budapesti út 10. P. O. Box 152 Szeged H-6701 Phone: (62)566-700, Fax: (62)566-713 Tax Number: 11087209-2-06 EU Communiity VAT: HU11087209 Registration No.: Cg. 0609-002502 Registry Court: Csongrád Megyei Cégbiróság

IBAN: HU83 1422 0108 2683 0003 0000 0000 SWIFT: COBA HU HXXXX Released to Imaging: 7/23/2025 1:23:09 PM

COMMERZBANK AG Hannover (EUR) 30159 Hannover, Theaterstr. 11-12. Account No.: 3 066 156 00 Sort Code: 250 400 66 BIC: COBADEFF250 IBAN: DE41250400660306615600

Hydrostatic Test Certificate

-		ContiTech
Certificate Number H100122	COM Order Reference 1388153	Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740362040	1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Date: 02/09/22	

We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description		Qnty	Serial Number	Work. Press. (psi)	Test Press. (psi)	Test Time (minutes)
20	RECERTIFICATION	3"	ID 10K Choke and Kill Hose x 35ft OAL	1	67094	10,000	15,000	60
	Record Information Start Time 1/27/2022 13:21:21			Pressure	e Chart			
			· 8 16000	-				
	End Time	1/27/2022 14:38:28	4 1				Pressure	
	Interval	00:01:00	14000-					
	Number	78	12000-		01			
	MaxValue	15849		net	ch ON B			
	MinValue	-3	10000-	181	181			
	AvgValue	14240		131	12	1		
	RecordName	67094-sh	8000	17		1		
	RecordNumber	199	6000	G	10	1		
Gauge Information		formation	4000-	11		/	-	
	Model ADT680			1				
	SN	21817380014	2000-		QC			
	Range	(0-40000)psi					L	
	Unit	psi						

