RILEY PERMIAN OPERATING COMPANY, LLC

29 E Reno Avenue, Suite 500

Туре

Double Ram

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory

1. Operator Name and Address

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

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 383949

2. OGRID Number

3. API Number

372290

Manufacturer

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

Location st From 2477 om Hole Location eet From 1650 formation	nation N/S Line	Feet From 1060	E/W Line	County Eddy		
et From 2477 om Hole Location eet From 1650	nation N/S Line	1060		,		
2477 om Hole Location eet From 1650	nation N/S Line	1060		,		
om Hole Location eet From 1650	N/S Line		W	Eddy		
eet From 1650	N/S Line	Feet From	•			
1650		Feet From				
	N		E/W Line	County		
ormation		10	W	Eddy		
<u> </u>						
			51120			
II Information	n					
				5. Ground Level Elevation		
Private			3298			
19. Co	Contractor	20. Spud Dat	20. Spud Date			
		10	10/1/2025			
water well		Distance to ne	stance to nearest surface water			
and Cement Pr	Program					
Setting D		Sacks of Cement		Estimated TOC		
1250		645		0		
3030)30	200		0		
		1575		2300		
	30 85	3030 8524 m: Additional Comments	3030 200 8524 1575	3030 200 8524 1575		

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☒, if applicable.				OIL CONSERVATIO	ON DIVISION
Signature:					
Printed Name:	Printed Name: Electronically filed by Spence Laird			Jeffrey Harrison	
Title:	tle: EHSR			Petroleum Specialist III	
Email Address:	address: spencelaird@rileypermian.com		Approved Date:	7/29/2025	Expiration Date: 7/29/2027
Date:	7/25/2025 Phone: 405-543-1411			oval Attached	

22. Proposed Blowout Prevention Program

Test Pressure

2000

Working Pressure

3000

ceived by O	CD: 7/25/	2025 10:09):04 AM							Page 2 o	
C-102					State of N	ew Mexico			Revis	sed July 9, 2024	
Submit Electronic	cally		Energy	v Min			es Department		Initial Submittal		
Via OCD Permitt				, ,	ONSERVA		1	Submittal	Amended Repor	t	
					OIVOLICVI	IIION DI	VISIOIV	Type:	As Drilled		
Property Name and	Well Number										
					OVER THI	E LINE 12-1	1 1H				
		WI	ELL LO	CATIO	ON AND A	CREAGE	DEDICATION	I PLAT			
API Number	7075	Pool Code	_	4400		Pool Name	DED ALCE	01 00175			
30-015-5	7075			1120			RED LAKE;	GLORITE			
Property Code 33	7522	Property N	ame		OVER T	HE LINE 12-	.11		Well Number	1H	
OGRID No.		Operator N	ame		OVERT	IIL LINL 12	11		Ground Level El		
372	2290		R	ILEY P	ERMIAN OP	ERATING C	OMPANY LLC		3:	298'	
Surface Owner: State Fee Tribal Federal Mineral Owner: State Fee Tribal						Federal					
					Surfa	ce Location					
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	I	ongitude	County	
Е	12	18 S	26 E		2477 FNL	1060 FWL	N 32.762928°	W 10	4.340418°	EDDY	
	<u> </u>	1.5		Rottom			t From Surface	1			
UL or Lot No.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude	I	ongitude	County	
Е	11	18 S	26 E		1650 FNL	10 FWL	N 32.765261°	W 10	4.361057°	EDDY	
_	• •	100	20 2		1.000	101112	11 02.7 00201			255.	
Dedicated Acres	Infill or Defi	ining Well Defir	ning Well API			Overlapping Sp	acing Unit (Y/N)	Consolidate	d Code		
160	Defining	g	N/A				N	Pen	ding		
Order Numbers	Pending						Well Setbacks	are under Commo	n Ownership: Ye	es No	
						f Point (KOI	P)				
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County	
						ke Point (FT)					
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County	
Н	11	18 S	26 E		1650 FNL	100 FEL	N 32.765185°	W 10	4.344175°	EDDY	
					Last Tal	ke Point (LTI	P)				
UL or lot no.	Section	Township	Range	Lot	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County	
Е	11	18 S	26 E		1650 FNL	100 FWL	N 32.765259°	W 10	4.360764°	EDDY	
Unitized Area or A	rea of Uniform I	nterest		Spacing	Unity Type		Ground F	loor Elevation			
Circlett Fred of Fr	rea or Chinorin r	nterest		Spacing	Hori	zontal Vertical	Ground	loor Elevation	3323'		
						•	'				
OPERATO	OR CERTIF	FICATION				SURVEY	ORS CERTIFICAT	ION			
I herebu certi	fu that the in	nformation con	tained herein	is true o	and complete to th	ne					
best of my kn that this orga	iowledge and nization eithe	belief; and, ij er owns a wor	f the well is o king interest	a vertical or unleas	or directional we ed mineral intere	ll, est	15	LL L. MCZ			
well at this lo	cation pursu	ant to a contr	act with an o	wner of a	a right to drill th n working interest nt or a compulsor	t		W MEX	12		
pooling order				y wyreenie	ni or a compasso	9	(季代)	* A No	a distance of the second		
If this well is received The c	consent of at	least one lesse	e or owner oj	f a workii	ng interest or		PR	(29821)			
any part of the	he well's com	pleted interval			brmation) in whi sined a compulsor		\\Z_\	09/19/9095	/&/		
pooling order	from the atol	IS1011.					176	02/18/2025	25/		
						_	/33	02 18 2025 ONAL S)/ 		
Snauna	Laird		07/17/2	2025							
Signature	Lucu	-	Date	.040			Seal of Professional Surveyor rtify that the well locati	Date on shown on t	his plat was plott	ed from field	
Spence La	ird						tual surveys made by m l correct to the best of n		supervision, and	that the same	
Print Name	int Name						MITCHELL MACRONAL B. NAM. B. L. C.				

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.

Certificate Number

MITCHELL L. MCDONALD, N.M. P.L.S.

JANUARY 17, 2025

29821

spencelaird@rileypermian.com E-mail Address

G 102		22.7			Parisad July 0, 2024
<u>C-102</u>		tate of New Mexic s & Natural Resou			Revised July 9, 2024
Submit Electronically Via OCD Permitting		s & Natural Resou ISERVATION D		Submittal	▼ Initial Submittal
	OIL COIN	SERVITTOND	11151611	Type:	Amended Report As Drilled
Property Name and Well Number					As Dillied
	0	VER THE LINE 12-	11 1H		
SURFACE LOCATION NEW MEXICO EAST NAD 1983 X=539160' Y=641285' LAT=N32.762928° LONG=W104.340418° NAD 1927 X=497981' Y=641223' LAT=N32.762814° LONG=W104.339902° 2477' FNL 1060' FWL FIRST TAKE POINT NEW MEXICO EAST NAD 1983 X=538005' Y=642106' LAT=N32.765185° LONG=W104.344175° NAD 1927 X=496826' Y=642044' LAT=N32.765071° LONG=W104.343658° 1650' FNL 100' FEL	AZ = 30	### A 17.0' 100'	11 14 11 14 10 15	-26-E	LOWER MOST PERF. NEW MEXICO EAST NAD 1983 X=532906' Y=642134' LAT=N32.765259° LONG=W104.360764° NAD 1927 X=491727' Y=642072' LAT=N32.765145° LONG=W104.360247° 1650' FNL 100' FWL SOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1983 X=532816' Y=642135' LAT=N32.765261° LONG=W104.361057° NAD 1927 X=491637' Y=642072' LAT=N32.765147° LONG=W104.360540° 1650' FNL 10' FWL

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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

Form APD Conditions

Permit 383949

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
RILEY PERMIAN OPERATING COMPANY, LLC [372290]	30-015-57075
29 E Reno Avenue, Suite 500	Well:
Oklahoma City, OK 73104	Over The Line 12 11 #001H

OCD Reviewer	Condition
jeffrey.harrison	This well is in the Roswell Aquifer. Casing must be set and cemented back to surface to protect the Roswell Aquifer.
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.
	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.
	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.
jeffrey.harrison	Cement is required to circulate on both surface and production strings of casing.
jeffrey.harrison	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

I. Operator: <u>Riley I</u>	<u>PermianOperatin</u>	g Company LLC	_OGRID:3	372290	·	Date: <u>07 /1</u>	7 / 2025
II. Type: 🛭 Original [☐ Amendment o	lue to □ 19.15.27.9	9.D(6)(a) NMAC	□ 19.15.27.9.D(6)(b) NM.	AC □ Other.	
If Other, please describe	e;						
III. Well(s): Provide the be recompleted from a s					velis prop	osed to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticip Gas Mo	E .	Anticipated Produced Water BBL/D
Over the Line 12-11 1H	30-015-PENDING	E - 12-18S-26E	2477 FNL 1060' FW	. 450	700		4,000
	30-015-PENDING	E - 12-18S-26E	2493' FNL 1035' FWT	450	70	0	4,000
IV. Central Delivery P	***************************************	7	y South Pad CTI			• •	27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recompl					ell or set o	of wells prope	osed to be drilled oi
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flow Back Date	First Production Date
Over the Line 12-11 1H	30-015-PENDING	10/1/2025	10/8/2025	1/1/2026		2/1/2026	2/1/2026
Over the Line 12-11 2H	30-015-PENDING	10/1/2025	10/8/2025	1/1/2026		2/1/2026	2/1/2026

- VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- VII. Operational 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.

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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	Anticipated Volume of Natural
<u> </u>		Natural Gas Rate MCF/D	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. \square 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 \square will \square will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.
- XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).
- ☐ Attach Operator's plan to manage production in response to the increased line pressure.
- XIV. Confidentiality:
 Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications Effective May 25, 2021

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; **(b)** power generation for grid; compression on lease; (c) liquids removal on lease; (d) reinjection for underground storage; (e)

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.

reinjection for temporary storage; reinjection for enhanced oil recovery;

fuel cell production; and

(f)

(g)

(h)

(i)

- (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: Spence Laird Title: EHS+R Manager
Printed Name: Spence Laird
Title: EHS+R Manager
E-mail Address: Spencelaind @ riky permian.com
Date: 7/19/25 Phone: 405-543-1411
Phone: 405 -543 - 1411
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Natural Gas Management Plan – Attachment

VI. Separation equipment will be sized by construction engineering staff based on anticipated daily production to ensure adequate capacity.

VII. Riley Permian Operating Company LLC ("Riley") will take the following actions to comply with the regulations listed in 19.15.27.8:

- A. Riley will maximize the recovery of natural gas by minimizing waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. Spur will ensure that our wells will be connected to a natural gas gathering system with sufficient capacity to transport natural gas.
- B. All drilling operations will be equipped with a rig flare at least 100 feet from the nearest surface hole location. Rig flare will be utilized to combust any natural gas that is brought to surface during normal operations. In the case of emergency, flaring volumes will be reported appropriately.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following completion operations, wells will flow to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. If natural gas does not meet gathering pipeline specifications, Riley will flare for 60 days or until natural gas meets the pipeline specifications. Riley will ensure flare is properly sized and is equipped with an automatic igniter or continuous pilot. Gas samples will be taken twice per week and natural gas will be routed into a gathering system as soon as the pipeline specifications are met.
- D. Natural gas will not be flared with the exception of 19.15.27.8(D)(1-4). If there is no adequate takeaway for the separator gas, wells will be shut-in until that natural gas gathering system is available with exception of emergency or malfunction situations. Volumes will be reported appropriately.
- E. Riley will comply with performance standards pursuant to 19.15.27.8(E)(1-8). All equipment will be designed and sized to handle maximum pressures to minimize waste. Storage tanks constructed after May 25, 2021 will be equipped with an automatic gauging system that reduces venting of natural gas. Flare stacks installed or replaced after May 25, 2021 will be equipped with an automatic ignitor or continuous pilot. Riley will conduct AVO inspections as described in 19.15.27.8(E)(5)(a) with frequencies specified in 19.15.27.8(E)(5)(b) and (c). All emergencies or malfunctions will be resolved as quickly and safely as possible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of an emergency or malfunction during drilling and/or completion operations will be estimated and reported accordingly. The volume of natural gas that is vented, flared, or beneficially used during production operations will be measured and reported accordingly. Riley will install equipment to measure the volume of natural gas flared from existing piping or a flowline piped from equipment such as high-pressure separators, heater treaters, or VRUs associated with a well of facility associated with a well authorized by an APD after May 25, 2021 that has an average daily production of less than 60,000 cubic feet of natural gas.



If metering is not practicable due to circumstances such as low flow rate or low pressure venting or flaring, Riley will estimate the volume of flared or vented natural gas. Measuring equipment will conform to industry standards and will not be equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing equipment.

VIII. For maintenance activities involving production equipment and compression, venting be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production equipment, the associated producing wells will be shut-in to eliminate venting. For maintenance of VRUs, all natural gas normally routed to the VRU will be routed to flare.

DRILLING PROGRAM



Riley Exploration-Permian, LLC

Over The Line 12-11 Pad

Over The Line 12-11 1H

Lot E Section 12, Township 18 South, Range 26 East, 6th P.M.

Eddy County, New Mexico

Owner: Bureau of Land Management

Land code: Exempt Agricultural Land

1. Geologic Name of Surface Formation

Quaternary

Estimated Tops of Important Geologic Markers:

Estimated 10ps of important deologic Markets.									
<u>Top</u>	TC Thickness	<u>Subsea</u>	Top from KB	<u>Lithology</u>	Expected Fluids				
Quaternary	323.5	3,318	0	Salt/Red beds	Usable Water				
Queen	417	2,994	324	ANHY/Dolomite	None				
Grayburg	247	2,577	741	ANHY/Dolomite	Natural Gas, Oil				
San Andres	1320	2,330	988	ANHY/Dolomite	Natural Gas, Oil				
Glorieta	95	1,010	2,308	ANHY/Dolomite	Natural Gas, Oil				
Paddock	121	915	2,403	ANHY/Dolomite	Natural Gas, Oil				
Lower Paddock	125	794	2,524	ANHY/Dolomite	Natural Gas, Oil				
Target		669	2,649	ANHY/Dolomite	Natural Gas, Oil				

Target @ 0' VS	<u>TVD</u>	<u>INC</u>
<u>rarget @ 0 vs</u>	2,649	90.00

2. Blowout Prevention

Variance Requested for flex hose

Riley Permian requests a variance to use a flex line from the BOP to the choke manifold. Documentation will be attached to the APD and be readily available. No external damage to the flex line. Flex line to be installed as straight as possible with no bends.

Riley Permian will be utilizing a 5M BOP

Condition	Specify what type and where?
BH Pressure at Deepest TVD	~1500 psi
Abnormal Temperature	No
BH Temperature at Deepest TVD	105-deg F

BOP/BOPE will be tested by an independent service company to 250 psi low and 70% of working pressure high unless otherwise required, as per Onshore Order 2 requirements. 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 the components installed with be functional and tested.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2.
On Exploratory wells or on that portion of any well approved for a 5M BOPE system or
greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in
accordance with Onshore Oil and Gas Order #2 III.B.1.i.

	Y	Are anchors required by manufacturer?				
	A conventional wellhead system will be employed. The wellhead and connection to the					
BOPE will meet all API 6A requirements. The BOP will be tested per Onshore Order #2						
	after installation on the surface casing which will cover testing requirements for a maximum					
	of 30	days.				
	See at	tached schematics.				

3. BOP Break Testing Request

Riley Exploration Permian LLC requests permission to adjust the BOP break testing requirements as follows:

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill the production section, where the surface casing point is shallower than the 3 Bone Spring or 10,000' TVD
- When skidding to drill a production section that does not penetrate the 3rd Bone Spring or deeper

If the kill line is broken prior to skid, four tests will be performed:

- The void between the wellhead and the spool (one on each side for two tests)
- The spool between the kill lines and the choke manifold (consisting of two tests)

If the kill line is not broken prior to skid, two tests will be performed:

• The void between the wellhead and the pipe rams

4. Proposed Casing Program

All casing strings will be test in accordance with onshore oil and gas order #2 III.B.1.h.

Casing Formation Set	Hole Size (in.)	Casing Interval		Casing Weight Size (lbs.)	Grade	Conn.	SF Collapse	SF Burst	Body SF Tension	Joint SF Tension	
Interval		From (ft.)	To (ft.)	(in.)							
San Andres	12.25	0	1250	9.625	36	J-55	BTC	1.125	1.2	1.4	1.4
N/A	8.75	0	3030	7	32	HCL-80	BTC	1.125	1.2	1.4	1.4
Yeso	8.75	3030	8524	5.5	20	HCL-80	BTC	1.125	1.2	1.4	1.4
								SF Va	lues will M	1EET or EXC	EED

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

5. Proposed Cement Program:

		Bottom	
Casing String	Top (ft.)	(ft.)	% Excess
Surface (Lead)	0	950	100%
Surface (Tail)	950	1250	100%
Production (Lead)	0	2300	35%+
Production (Tail)	2300	8524	35%+

Casing String # Sx		Wt. (lb./gal)	Yld (ft3/sk)	H20 (gal/sk)	500# Compressive Strength (hours)	Slurry Description
Surface (lead)	450	12.8	1.43	6.65	6:44	50/50 Poz C Premium Plus
Surface (tail)	195	14.8	1.33	6.32	8:05	Class C Premium Plus
Production (lead)	200	11.5	2.29	12.63	N/A	50/50 Poz C Premium Plus
Production (tail)	1575	13.7	1.31	5.61	N/A	35/65 Poz C Premium Plus

6. Types and Characteristics of the Proposed Mud System:

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products: Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Saltwater Clay, CACL2. Riley will utilize a closed mud system.

Depth		Typo	Weight	Viscosity	Water
From (ft.)	To (ft.)	Туре	(ppg)	(cp)	Loss
0	1250	Water-Based Mud	8.6-8.9	32-36	N/C
1250	TD	Water-Based Mud	8.6-8.10	32-37	N/C

PVT/Pason/Visual Monitoring will be used to monitor the loss or gain of fluid.

7. Logging, Testing and Coring Program:

Logging, Coring and Testing.							
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole). Stated logs						
	run will be in the Compi	letion Report and submitted to the Bl	LM.				
No		on well control or offset log informa	tion.				
No	Drill stem test? If yes, e	explain					
No	Coring? If yes, explain						
Addi	tional logs planned	Interval					
No	Resistivity						
No	Density						
No	CBL						
Yes	Mud log	SCP - TD					
No	PEX						

8. Drilling Conditions

Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.

Hyd	rogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S						
is de	is detected in concentrations greater than 100 ppm, the operator will comply with the provisions						
of O	of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and						
form	formations will be provided to the BLM.						
N	H2S is present						
Y	H2S Plan attached						

Total estimated cuttings volume: 810 bbl

NOTES REGARDING THE BLOWOUT PREVENTERS

Over The Line 12-11 1H

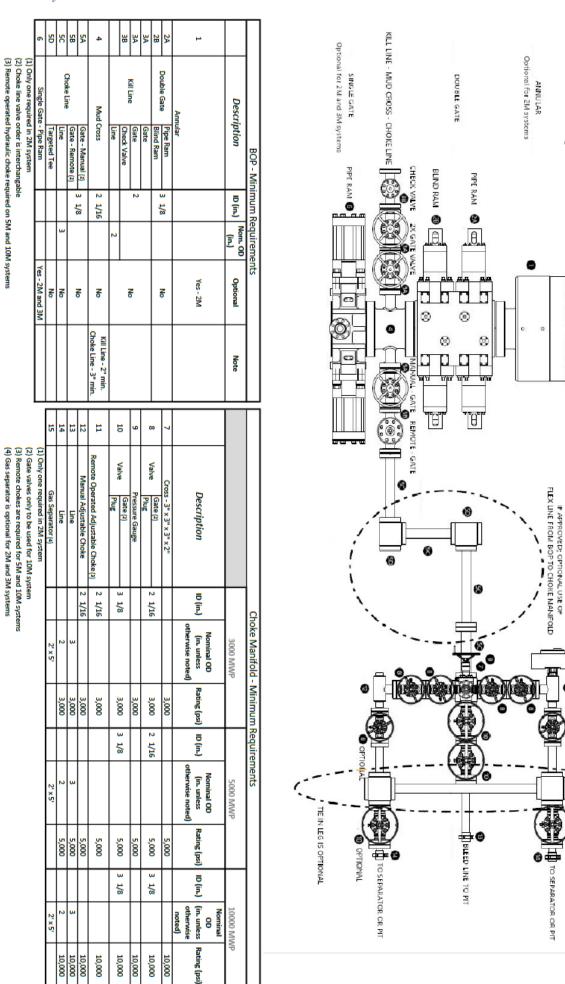
Eddy County, New Mexico

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 3000 psi WP minimum.
- 4. All fittings to be flanged.
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 3000 psi WP minimum.
- 6. All choke and fill lines to be securely anchored especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on Kelly.
- 9. Extension wrenches and hands wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.

Minimum BOP and Choke Requirements

Riley Permian

3M and 5M Systems



Riley Permian Operating Company, LLC

Onshore Order #6 Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

II. H2S SAFETY EQUIPMENT AND SYSTEMS

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

1. Well Control Equipment:

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

2. Protective equipment for essential personnel:

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

3. H2S detection and monitoring equipment:

A. 3x portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.

4. Visual warning systems:

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

5. Mud program:

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

6. Metallurgy:

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

7. Communication:

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

8. Well testing:

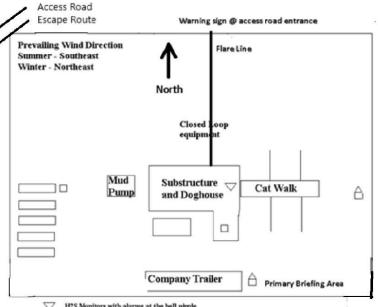
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H2S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

WARNING

YOU ARE ENTERING AN H2S AREA **AUTHORIZED PERSONNEL ONLY**

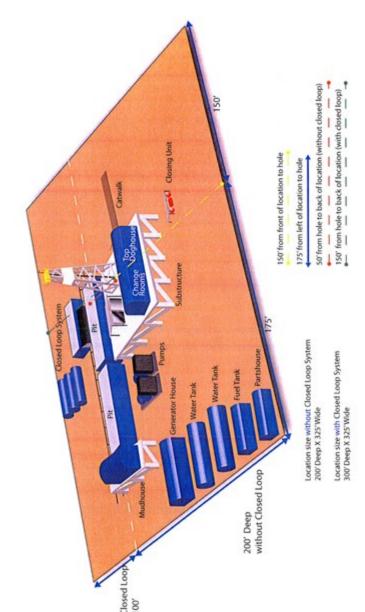
- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
 - 2. HARD HATS REQUIRED
 - 3. SMOKING IN DESIGNATED AREAS ONLY
 - 4. BE WIND CONSCIOUS AT ALL TIMES
 - 5. CHECK WITH RILEY PERMIAN OPERATING **COMPANY MAN AT OFFICE**

RILEY PERMIAN OPERATING COMPANY, LLC 1-405-415-8699



- H2S Monitors with alarms at the bell nipple
- Wind Direction Indicators
- Safe Briefing areas with caution signs and breathing equipment min 150 feet from wellhead

Hydrogen Sulfide Drilling Operations Plan DRILLING LOCATION H2S SAFTY EQUIPMENT Exhibit # 8



Location Layout

EMERGENCY CONTACT LIST – EDDY COUNTY

Artesia	Cellular	Office
Spence Laird575-	703-7382405-420-8	415
Steve Forister505-	400-4571405-666-0	0113
Travis Kerr713-82	23-6933	
Justing Sappington	861-550-0494	

Agency Call List (575)

Artesia

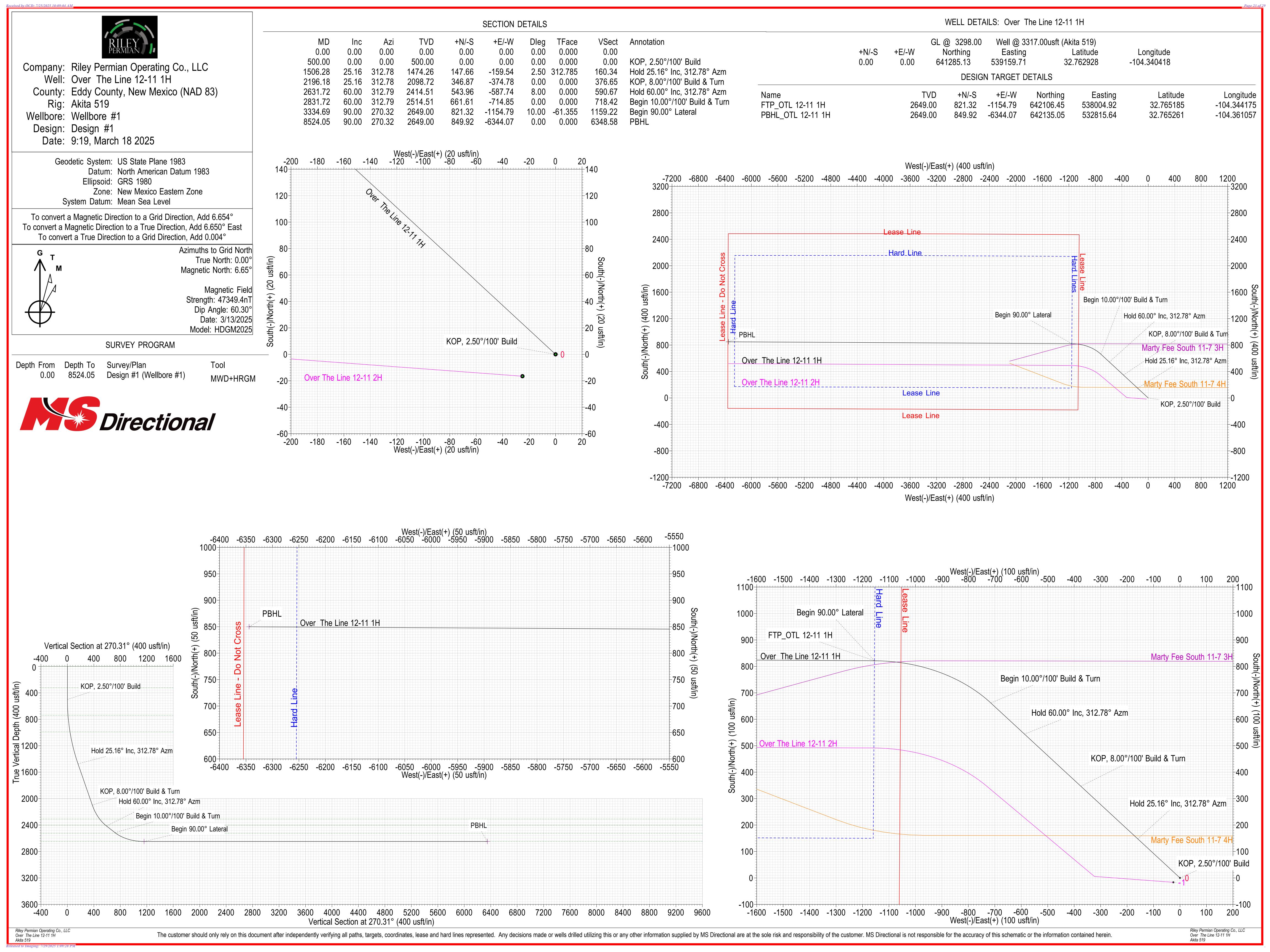
State Police	746-2703
City Police	746-2703
Sheriff's Office	746-9888
Ambulance	911
Fire Department	746-2701
LEPC (Local Emergency Planning	g Committee746-2122
NMOCD	748-1283

Carlsbad

State Police	885-3137
City Police	885-2111
Sheriff's Office	887-7551
Ambulance	911
Fire Department	885-2111
LEPC (Local Emergency Plannir	ng Committee887-3798
Bureau of Land Management	887-6544
New Mexico Emergency Respo	onse Commission(505)476-9690
24 Hour	(505)827-9126

Emergency Services

Boots & Coots IWC1-800-256-9688 or (281)931-8884
Cudd pressure Control(915)699-0139 or (915)563-3356
Halliburton746-2757
Par Five748-9539
Flight For Life-Lubbock, TX(806)743-9911
Aerocare-Lubbock, TX(806)747-8923
Med Flight Air Amb-Albuquerque, NM(505)842-4433
Lifeguard Air Med Svc. Albuquerque, NM(505)272-3115





Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H) Over The Line 12-11 1H

Wellbore #1

Plan: Design #1

Standard Planning Report

18 March, 2025



Page 25 of 29



Well:

Planning Report



Database: TRG_EDMConroe

Company: Riley Permian Operating Co., LLC
Project: Eddy County, New Mexico (NAD 83)
Site: Over The Line 12-11 (1H, 2H)

Over The Line 12-11 1H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Over The Line 12-11 1H

Well @ 3317.00usft (Akita 519) Well @ 3317.00usft (Akita 519)

Minimum Curvature

Project Eddy County, New Mexico (NAD 83)

Map System:US State Plane 1983System Datum:Mean Sea Level

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

Site Over The Line 12-11 (1H, 2H)

 Site Position:
 Northing:
 641,285.13 usft
 Latitude:
 32.762928

 From:
 Map
 Easting:
 539,159.71 usft
 Longitude:
 -104.340418

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well Over The Line 12-11 1H

Well Position +N/-S 0.00 usft **Northing**: 641,285.13 usfl **Latitude**: 32.762928

+E/-W 0.00 usft Easting: 539,159.71 usft Longitude: -104.340418

Position Uncertainty 0.00 usft Wellhead Elevation: usft Ground Level: 3,298.00 usft

Grid Convergence: -0.004 °

Wellbore #1

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM2025
 3/13/2025
 6.650
 60.300
 47,349.400

Design #1

Audit Notes:

Version:Phase:PLANTie On Depth:0.00

 Vertical Section:
 Depth From (TVD) (usft)
 +N/-S (usft)
 +E/-W (usft)
 Direction (usft)

 0.00
 0.00
 0.00
 270.31

Plan Survey Tool Program Date 3/17/2025

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 8,524.05 Design #1 (Wellbore #1) MWD+HRGM

OWSG MWD + HRGM

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination **Azimuth** Depth +N/-S +E/-W Rate Rate Rate **TFO** (°/100usft) (°/100usft) (°/100usft) (usft) (usft) (usft) (usft) (°) (°) (°) Target 0.00 0.00 0.00 0.00 0.000 0.00 0.00 0.00 0.00 0.00 500.00 0.00 0.00 500.00 0.00 0.00 0.00 0.00 0.00 0.000 1,506.28 25.16 312.78 1,474.26 147.66 -159.54 2.50 2.50 0.00 312.785 2,196.18 25.16 312.78 2,098.72 346.87 -374.78 0.00 0.00 0.00 0.000 2,631.72 60.00 312.79 2.414.51 543.96 -587.74 8.00 8.00 0.00 0.000 2,831.72 60.00 312.79 661.61 -714.85 0.00 0.00 0.00 0.000 2,514.51 2,649.00 821.32 -1,154.79 10.00 3,334.69 90.00 270.32 5.96 -8.44 -61.355 8,524.05 90.00 270.32 2,649.00 849.92 -6,344.07 0.00 0.00 0.00 0.000 PBHL OTL 12-11 1

RILEY

Planning Report



Database: Company: Project:

Site:

TRG_EDMConroe

Riley Permian Operating Co., LLC Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H)

Well: Over The Line 12-11 1H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Over The Line 12-11 1H Well @ 3317.00usft (Akita 519) Well @ 3317.00usft (Akita 519)

Grid

Measured Depth Inclination Lazimuth (v)	ned Survey									
Countermary 100.00	Depth	Inclination		Depth			Section	Rate	Rate	Rate
100.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen	100.0 200.0 300.0	0.00 0 0.00 0 0.00	0.00 0.00	200.00 300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
S50.00 0.00 0.00 500.00 700.00 5.00 312.78 6.99.75 5.92 -6.40 6.43 2.50 2.50 0.00 741.45 6.04 312.78 699.14 13.32 -14.39 14.46 2.50 2.50 0.00 900.00 10.00 312.78 897.97 23.65 25.55 25.68 2.50 2.50 0.00 991.76 12.29 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 1,000.00 12.50 312.78 986.04 36.90 -39.87 40.07 2.50 2.50 0.00 1,000.00 15.00 312.78 1,283.17 72.05 -77.85 78.24 2.50	Queen									
600.00										
700.00 5.00 312.78 699.75 5.92 6.40 6.43 2.50 2.50 0.00 Crayburg 800.00 7.50 312.78 799.14 13.32 -14.39 14.46 2.50 2.50 0.00 991.76 12.29 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 991.76 12.29 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 991.76 12.29 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 1.00 0.00 12.50 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 1.100.00 12.50 312.78 1.998.00 35.70 -73.85 78.24 2.50 2.50 2.50 0.00 1.100.00 12.50 312.78 1.998.00 35.70 -77.85 78.24 2.50 2.50 2.50 0.00 1.100.00 12.50 312.78 1.998.17 72.05 -77.85 78.24 2.50 2.50 0.00 1.300.00 2.00 312.78 1.998.18 38.8 -101.44 101.94 2.50 2.50 2.50 0.00 1.300.00 2.00 312.78 1.377.05 118.50 -128.03 128.67 2.50 2.50 0.00 1.506.28 2.516 312.78 1.377.05 118.50 -128.03 128.67 2.50 2.50 0.00 1.506.28 2.516 312.78 1.377.05 118.50 -128.03 128.67 2.50 2.50 0.00 1.500.00 2.516 312.78 1.474.26 147.66 1.59.54 160.34 2.50 2.50 2.50 0.00 1.800.00 2.516 312.78 1.89.17 1.22.24 7 -2518 2.52 2.50 0.00 0.00 1.800.00 2.516 312.78 1.89.18 1.89.13 0.00 0.00 0.00 0.00 0.00 1.800.00 2.516 312.78 1.380.63 261.35 -282.38 283.79 0.00 0.00 0.00 0.00 1.900.00 2.516 312.78 1.380.63 261.35 -282.38 283.79 0.00 0.00 0.00 0.00 1.900.00 2.516 312.78 1.380.63 261.35 -282.38 283.79 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0										
800.00 7.50 312.78 799.14 13.32 -14.39 14.46 2.50 2.50 0.00 990.00 10.00 312.78 897.97 23.65 -25.55 25.68 2.50 2.50 0.00 991.76 12.29 312.78 988.00 35.70 -38.57 38.77 2.50 2.50 0.00 San Andres 1,000.00 12.50 312.78 996.04 36.90 -39.87 40.07 2.50 2.50 0.00 1,100.00 15.00 312.78 1,093.17 53.04 -57.31 57.60 2.50 2.50 0.00 1,100.00 15.00 312.78 1,189.17 72.05 -77.85 78.24 2.50 2.50 0.00 1,200.00 1,2	700.0 741.4	5.00 5 6.04	312.78	699.75	5.92	-6.40	6.43	2.50	2.50	0.00
San Andres	800.0 900.0	0 7.50 0 10.00	312.78	897.97	23.65	-25.55	25.68	2.50	2.50	0.00
1,100.00	San And	dres								
1,300.00										
Hold 25.16° Inc, 312.78° Azm	1,300.0 1,400.0	0 20.00 0 22.50	312.78 312.78	1,283.85 1,377.05	93.88 118.50	-101.44 -128.03	101.94 128.67	2.50 2.50	2.50 2.50	0.00 0.00
1,700.00				,						
1,800.00	1,600.0	0 25.16	312.78	1,559.09	174.72	-188.78	189.73	0.00	0.00	0.00
KOP, 8.00°/100° Build & Turn 2,200,00 25.46 312.78 2,102.17 347.98 -375.98 377.86 8.00 8.00 0.00 2,250.00 29.46 312.78 2,146.53 363.64 -392.90 394.86 8.00 8.00 0.00 2,300.00 33.46 312.78 2,189.17 381.36 -412.05 414.11 8.00 8.00 0.00 2,350.00 37.46 312.78 2,229.89 401.06 -433.33 435.50 8.00 8.00 0.00 2,400.00 41.46 312.78 2,268.48 422.64 -456.65 458.93 8.00 8.00 0.00 2,450.00 45.46 312.78 2,308.00 446.00 -481.89 484.29 8.00 8.00 0.00 2,450.00 49.46 312.78 2,338.56 471.02 -508.92 511.46 8.00 8.00 0.00 2,550.00 53.46 312.79 2,389.05 525.55 -567.84 570.67	1,800.0 1,900.0 2,000.0	0 25.16 0 25.16 0 25.16	312.78 312.78 312.78	1,740.12 1,830.63 1,921.15	232.47 261.35 290.22	-251.18 -282.38 -313.58	252.43 283.79 315.14	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
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2,450.00 45.46 312.78 2,304.76 446.00 -481.89 484.29 8.00 8.00 0.00 2,454.63 45.83 312.78 2,308.00 448.25 -484.32 486.74 8.00 8.00 0.00 Glorieta 2,500.00 49.46 312.78 2,338.56 471.02 -508.92 511.46 8.00 8.00 0.00 2,550.00 53.46 312.79 2,369.71 497.58 -537.62 540.30 8.00 8.00 0.00 2,600.00 57.46 312.79 2,398.05 525.55 -567.84 570.67 8.00 8.00 0.00 2,609.30 58.21 312.79 2,403.00 530.90 -573.62 576.48 8.00 8.00 0.00 Paddock 2,631.72 60.00 312.79 2,414.51 543.96 -587.74 590.67 8.00 8.00 0.00 Hold 60.00° Inc, 312.78° Azm 2,700.00 60.00 312.79 2,448.65 584.13 -631.13 634.28 0.00	2,200.0 2,250.0 2,300.0	0 25.46 0 29.46 0 33.46	312.78 312.78 312.78	2,146.53 2,189.17	363.64 381.36	-392.90 -412.05	394.86 414.11	8.00 8.00	8.00 8.00	0.00 0.00
2,500.00 49.46 312.78 2,338.56 471.02 -508.92 511.46 8.00 8.00 0.00 2,550.00 53.46 312.79 2,369.71 497.58 -537.62 540.30 8.00 8.00 0.00 2,600.00 57.46 312.79 2,398.05 525.55 -567.84 570.67 8.00 8.00 0.00 2,609.30 58.21 312.79 2,403.00 530.90 -573.62 576.48 8.00 8.00 0.00 Paddock 2,631.72 60.00 312.79 2,414.51 543.96 -587.74 590.67 8.00 8.00 0.00 Hold 60.00° Inc, 312.78° Azm 2,700.00 60.00 312.79 2,448.65 584.13 -631.13 634.28 0.00 0.00 0.00 2,800.00 60.00 312.79 2,498.65 642.95 -694.69 698.16 0.00 0.00 0.00 2,831.72 60.00 312.79 2,514.51 661.61 -714.85 718.42 0.00 0.00 0.00 <td>2,450.0 2,454.6</td> <td>0 45.46 3 45.83</td> <td>312.78</td> <td>2,304.76</td> <td>446.00</td> <td>-481.89</td> <td>484.29</td> <td>8.00</td> <td>8.00</td> <td>0.00</td>	2,450.0 2,454.6	0 45.46 3 45.83	312.78	2,304.76	446.00	-481.89	484.29	8.00	8.00	0.00
2,550.00 53.46 312.79 2,369.71 497.58 -537.62 540.30 8.00 8.00 0.00 2,600.00 57.46 312.79 2,398.05 525.55 -567.84 570.67 8.00 8.00 0.00 2,609.30 58.21 312.79 2,403.00 530.90 -573.62 576.48 8.00 8.00 0.00 Paddock 2,631.72 60.00 312.79 2,414.51 543.96 -587.74 590.67 8.00 8.00 0.00 Hold 60.00° Inc, 312.78° Azm 2,700.00 60.00 312.79 2,448.65 584.13 -631.13 634.28 0.00 0.00 0.00 2,800.00 60.00 312.79 2,498.65 642.95 -694.69 698.16 0.00 0.00 0.00 2,831.72 60.00 312.79 2,514.51 661.61 -714.85 718.42 0.00 0.00 0.00			212 79	2 228 56	471.02	_500 00	511 16	g 00	Q ΩΩ	0.00
2,609.30 58.21 312.79 2,403.00 530.90 -573.62 576.48 8.00 8.00 0.00 Paddock 2,631.72 60.00 312.79 2,414.51 543.96 -587.74 590.67 8.00 8.00 0.00 Hold 60.00° Inc, 312.78° Azm 2,700.00 60.00 312.79 2,448.65 584.13 -631.13 634.28 0.00 0.00 0.00 2,800.00 60.00 312.79 2,498.65 642.95 -694.69 698.16 0.00 0.00 0.00 2,831.72 60.00 312.79 2,514.51 661.61 -714.85 718.42 0.00 0.00 0.00	2,550.0	0 53.46	312.79	2,369.71	497.58	-537.62	540.30	8.00	8.00	0.00
Hold 60.00° Inc, 312.78° Azm 2,700.00 60.00 312.79 2,448.65 584.13 -631.13 634.28 0.00 0.00 0.00 2,800.00 60.00 312.79 2,498.65 642.95 -694.69 698.16 0.00 0.00 0.00 2,831.72 60.00 312.79 2,514.51 661.61 -714.85 718.42 0.00 0.00 0.00	2,609.3 Paddoc l	0 58.21 k	312.79		530.90	-573.62	576.48	8.00	8.00	0.00
2,800.00 60.00 312.79 2,498.65 642.95 -694.69 698.16 0.00 0.00 0.00 2,831.72 60.00 312.79 2,514.51 661.61 -714.85 718.42 0.00 0.00 0.00	Hold 60.	.00° Inc, 312.78°	Azm							
									0.00	0.00
				2,514.51	661.61	-714.85	718.42	0.00	0.00	0.00

RILEY

Site:

Well:

Planning Report



Database: TR Company: Rile Project: Ed

TRG_EDMConroe
Riley Permian Operating Co., LLC

Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H) Over The Line 12-11 1H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Over The Line 12-11 1H Well @ 3317.00usft (Akita 519) Well @ 3317.00usft (Akita 519)

Grid

Desigr	n:	Design #1								
Plann	ed Survey									
	Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	2,850.00 2,850.97	60.89 60.94	310.95 310.85	2,523.53 2,524.00	672.22 672.78	-726.69 -727.34	730.32 730.97	10.00 10.00	4.86 4.94	-10.04 -9.95
	Lower Pad		222.22	0.540.00	200 70	704.00	705.00	40.00	E 44	0.70
	2,900.00 2,950.00	63.44 66.15	306.09 301.44	2,546.88 2,568.18	699.73 724.84	-761.28 -798.89	765.06 802.80	10.00 10.00	5.11 5.42	-9.72 -9.29
	3,000.00 3,050.00 3,100.00 3,150.00 3,200.00	69.00 71.95 75.00 78.12 81.29	296.99 292.71 288.58 284.56 280.63	2,587.26 2,603.98 2,618.20 2,629.82 2,638.76	747.38 767.16 784.04 797.90 808.61	-839.22 -881.97 -926.81 -973.41 -1,021.41	843.25 886.11 931.04 977.72 1,025.77	10.00 10.00 10.00 10.00 10.00	5.69 5.91 6.09 6.24 6.35	-8.90 -8.56 -8.27 -8.04 -7.85
	3,250.00 3,300.00 3,332.85	84.51 87.75 89.88	276.77 272.95 270.45	2,644.94 2,648.32 2,649.00	816.11 820.33 821.31	-1,070.44 -1,120.13 -1,152.96	1,074.84 1,124.55 1,157.39	10.00 10.00 10.00	6.43 6.48 6.50	-7.72 -7.64 -7.60
	Target 3.334.69	90.00	270.32	2,649.00	821.32	-1,154.79	1,159.22	10.00	6.50	-7.60
	Begin 90.0		210.02	2,0-10.00	021.02	1,104.73	1,100.22	10.00	0.50	7.00
	3,400.00	90.00	270.32	2,649.00	821.68	-1,220.10	1,224.53	0.00	0.00	0.00
	3,500.00 3,600.00 3,700.00 3,800.00 4,000.00 4,100.00 4,200.00 4,300.00 4,400.00	90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32 270.32 270.32 270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00	822.23 822.79 823.34 823.89 824.44 824.99 825.54 826.09 826.64 827.19	-1,320.10 -1,420.10 -1,520.10 -1,620.10 -1,720.10 -1,820.09 -1,920.09 -2,020.09 -2,120.09 -2,220.09	1,324.53 1,424.53 1,524.53 1,624.53 1,724.53 1,824.53 2,024.53 2,124.53 2,224.53	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
	4,500.00 4,600.00 4,700.00 4,800.00 4,900.00 5,000.00	90.00 90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00	827.74 828.29 828.85 829.40 829.95 830.50	-2,320.09 -2,420.09 -2,520.08 -2,620.08 -2,720.08 -2,820.08	2,324.53 2,424.53 2,524.53 2,624.53 2,724.53 2,824.53	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
	5,100.00 5,200.00 5,300.00 5,400.00	90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00	831.05 831.60 832.15 832.70	-2,920.08 -3,020.08 -3,120.08 -3,220.07	2,924.53 3,024.53 3,124.53 3,224.53	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	5,500.00 5,600.00 5,700.00 5,800.00 5,900.00	90.00 90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00 2,649.00	833.25 833.80 834.36 834.91 835.46	-3,320.07 -3,420.07 -3,520.07 -3,620.07 -3,720.07	3,324.53 3,424.53 3,524.53 3,624.53 3,724.53	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,000.00 6,100.00 6,200.00 6,300.00 6,400.00	90.00 90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00 2,649.00	836.01 836.56 837.11 837.66 838.21	-3,820.06 -3,920.06 -4,020.06 -4,120.06 -4,220.06	3,824.53 3,924.53 4,024.53 4,124.53 4,224.53	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	6,500.00 6,600.00 6,700.00 6,800.00 6,900.00 7,000.00	90.00 90.00 90.00 90.00 90.00	270.32 270.32 270.32 270.32 270.32 270.32	2,649.00 2,649.00 2,649.00 2,649.00 2,649.00 2,649.00	838.76 839.31 839.87 840.42 840.97 841.52	-4,320.06 -4,420.06 -4,520.05 -4,620.05 -4,720.05 -4,820.05	4,324.53 4,424.53 4,524.53 4,624.53 4,724.53 4,824.53	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
	1,000.00	90.00	210.32	2,049.00	041.02	-4,020.03	4,024.03	0.00	0.00	0.00

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Planning Report



Database: Company: Project: Site: TRG_EDMConroe

Riley Permian Operating Co., LLC Eddy County, New Mexico (NAD 83) Over The Line 12-11 (1H, 2H)

Well: Over The Line 12-11 1H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Over The Line 12-11 1H Well @ 3317.00usft (Akita 519) Well @ 3317.00usft (Akita 519)

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,100.00	90.00	270.32	2,649.00	842.07	-4,920.05	4,924.53	0.00	0.00	0.00
7,200.00	90.00	270.32	2,649.00	842.62	-5,020.05	5,024.53	0.00	0.00	0.00
7,300.00	90.00	270.32	2,649.00	843.17	-5,120.04	5,124.53	0.00	0.00	0.00
7,400.00	90.00	270.32	2,649.00	843.72	-5,220.04	5,224.53	0.00	0.00	0.00
7,500.00	90.00	270.32	2,649.00	844.27	-5,320.04	5,324.53	0.00	0.00	0.00
7,600.00	90.00	270.32	2,649.00	844.82	-5,420.04	5,424.53	0.00	0.00	0.00
7,700.00	90.00	270.32	2,649.00	845.38	-5,520.04	5,524.53	0.00	0.00	0.00
7,800.00	90.00	270.32	2,649.00	845.93	-5,620.04	5,624.53	0.00	0.00	0.00
7,900.00	90.00	270.32	2,649.00	846.48	-5,720.04	5,724.53	0.00	0.00	0.00
8,000.00	90.00	270.32	2,649.00	847.03	-5,820.03	5,824.53	0.00	0.00	0.00
8,100.00	90.00	270.32	2,649.00	847.58	-5,920.03	5,924.53	0.00	0.00	0.00
8,200.00	90.00	270.32	2,649.00	848.13	-6,020.03	6,024.53	0.00	0.00	0.00
8,300.00	90.00	270.32	2,649.00	848.68	-6,120.03	6,124.53	0.00	0.00	0.00
8,400.00	90.00	270.32	2,649.00	849.23	-6,220.03	6,224.53	0.00	0.00	0.00
8,500.00 8,524.05 PBHL	90.00 90.00	270.32 270.32	2,649.00 2,649.00	849.78 849.92	-6,320.03 -6,344.07	6,324.53 6,348.58	0.00 0.00	0.00 0.00	0.00 0.00

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
PBHL_OTL 12-11 1H - plan hits target cel - Point	0.00 nter	360.00	2,649.00	849.92	-6,344.07	642,135.05	532,815.64	32.765261	-104.361057
FTP_OTL 12-11 1H - plan hits target cel - Point	0.00 nter	0.00	2,649.00	821.32	-1,154.79	642,106.46	538,004.92	32.765185	-104.344175

ormations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	0.00	0.00	Quaternary				
	324.00	324.00	Queen				
	741.45	741.00	Grayburg				
	991.76	988.00	San Andres				
	2,454.63	2,308.00	Glorieta				
	2,609.30	2,403.00	Paddock				
	2,850.97	2,524.00	Lower Paddock				
	3,332.85	2,649.00	Target				





Planning Report



TRG_EDMConroe Database:

Riley Permian Operating Co., LLC Company: Project: Eddy County, New Mexico (NAD 83) Site: Over The Line 12-11 (1H, 2H) Well: Over The Line 12-11 1H

Wellbore: Wellbore #1

Design: Design #1 Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Over The Line 12-11 1H Well @ 3317.00usft (Akita 519) Well @ 3317.00usft (Akita 519)

Plan Annotatio	ons				
N	Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
	500.00	500.00	0.00	0.00	KOP. 2.50°/100' Build
	1.506.28	1.474.26	147.66	-159.54	Hold 25.16° Inc, 312.78° Azm
	2.196.18	2.098.72	346.87	-374.78	KOP, 8.00°/100' Build & Turn
	2,631.72	2,414.51	543.96	-587.74	Hold 60.00° Inc, 312.78° Azm
	2,831.72	2,514.51	661.61	-714.85	Begin 10.00°/100' Build & Turn
	3,334.69	2,649.00	821.32	-1,154.79	Begin 90.00° Lateral
	8,524.05	2,649.00	849.92	-6,344.07	PBHL