Form 3160-5 (June 2019)	DEE	UNITED STATES ARTMENT OF THE INTERIO	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021						
		EAU OF LAND MANAGEMEN			5	Lease Serial No		16640B	
	not use this f	OTICES AND REPORTS ON form for proposals to drill of Use Form 3160-3 (APD) for s	r to re-	enter an		6. If Indian, Allottee or Tribe Name			
	SUBMIT IN	TRIPLICATE - Other instructions on	page 2		7	. If Unit of CA/Agr	eement,	Name and/or No.	
1. Type of Well									
🖌 Oil V			8	. Well Name and No	^{D.} PAKS	E 4 SOUTH FED CON	<i>I</i> /433H		
2. Name of Operator	EARTHSTONE	OPERATING LLC			9	API Well No. 300	255227	0	
		STREET SUITE 1000, MIC 3b. Phone 1 (432) 695		de area code	e) 1	0. Field and Pool or HAT MESA/WOL	-	-	
4. Location of Well SEC 24/T20S/R3	-	<i>2.,M., or Survey Description)</i>			1	1. Country or Parisl LEA/NM	n, State		
	12. CHE	CK THE APPROPRIATE BOX(ES) TO	INDICA	FE NATURE	E OF NOTIC	E, REPORT OR OT	HER D	ATA	
TYPE OF SU	BMISSION			TV	PE OF ACTI	ON			
	TYPE OF SUBMISSION Image: Notice of Intent Image: Notinet of Intent Image					ction (Start/Resume)] Water Shut-Off] Well Integrity] Other	
Subsequent R	leport		lug and A	bandon	_	orarily Abandon		-	
Final Abando	nment Notice	Convert to Injection	lug Back		Water	Disposal			
completion of th completed. Fina is ready for final SUNDRY TC WELL NUME FROM: PAKS TO: PAKSE POOL/TARG FROM: (964: TO: (53560) FIRST TAKE FROM: B-24 TO: B-24-203 LAST TAKE Continued on	e involved operatic l Abandonment No inspection.) P REVISE WELL I BER CHANGE SE 4 SOUTH FED 4 SOUTH FED CO ET 38) HAT MESA; V SALT LAKE; BON POINT -20S-32E; 100 FNL, POINT pOINT page 3 additiona	OM 114H; VOLFCAMP NE SPRING; NL, 1650 FEL 1330 FEL	completion nents, incl	on or recomp	oletion in a ne	ew interval, a Form	3160-4 1	nust be filed once testing	has been
JENNIFER ELRO	8 8		Title	Senior Re	egulatory An	alyst			
(Ele Signature	ctronic Submissic	on)	Date	;		02/19/2	2024		
		THE SPACE FOR FE	EDERA	L OR ST		CE USE			
Approved by									
CHRISTOPHER	WALLS / Ph: (575	5) 234-2234 / Approved		Title Petro	oleum Engir	neer	Date	02/22/2024	
certify that the applic	ant holds legal or e	hed. Approval of this notice does not wa equitable title to those rights in the subje- duct operations thereon.	Office CA	RLSBAD					
		3 U.S.C Section 1212, make it a crime for ents or representations as to any matter v			gly and willfu	Illy to make to any o	lepartme	ent or agency of the Unite	d States

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

FROM: G-25-20S-32E; 2539 FNL, 1650 FEL TO: G-25-20S-32E; 2540 FNL, 1330 FEL; BOTTOM HOLE LOCATION FROM: G-25-20S-32E; 2629 FNL, 1650 FEL TO: G-25-20S-32E; 2630 FNL, 1330 FEL; *REVISE CASING DESIGN ATTACHED

Location of Well

0. SHL: NWNE / 263 FNL / 1879 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5652022 / LONG: -103.7172313 (TVD: 0 feet, MD: 0 feet) PPP: NWNE / 100 FNL / 1650 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5656499 / LONG: -103.71649 (TVD: 11095 feet, MD: 11500 feet) PPP: NWSE / 2645 FNL / 1651 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5586558 / LONG: -103.7164904 (TVD: 11095 feet, MD: 14045 feet) BHL: SWNE / 2629 FNL / 1650 FEL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.5441597 / LONG: -103.7164913 (TVD: 11113 feet, MD: 18751 feet) District I

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District III</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

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

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

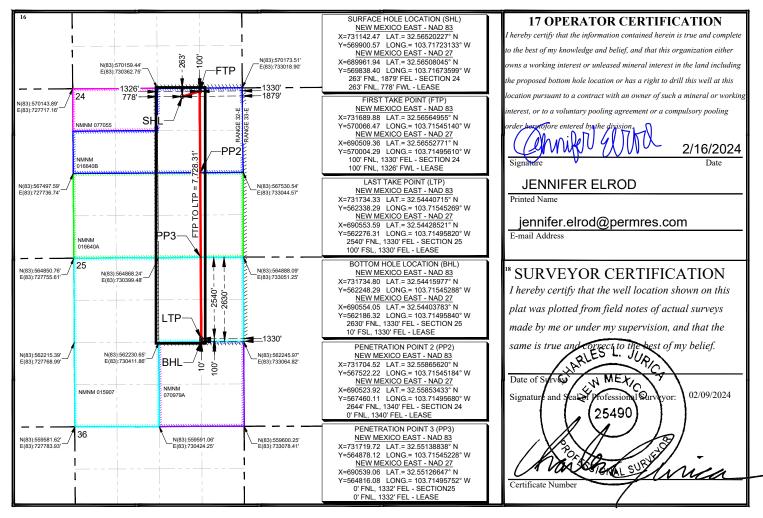
X AMENDED REPORT

WELL NUMBER, POOL, FTP, LTP, BHL

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A	API Number			2 Pool Cod	e	3 Pool Name					
30	30-025-52270 53560 SALT LAKE; BONE SPRING										
4 Property Code 5 Property Name									6 Well Number		
335024					PAKSE 4 SOUT	H FED COM				114H	
7 OGRID	No.				8 Operator	Name				9 Elevation	
331165				1	EARTHSTONE OP	ERATING LLC				3542.99'	
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County	
В	24	20-S	32-Е		263'	NORTH	1879'	EAS	Т	LEA	
			11 Bo	ttom Ho	le Location I	If Different Fro	m Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
G	25	20-S	32-E		2630'	NORTH	1330'	EAS	Т	LEA	
12 Dedicated Acres	s 13 Joint o	or Infill 14	Consolidation	Code 15 O	rder No.						
240											

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.



eceived by OCD: 3/5/2024 1:39:10 PM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Report 02/26/2024
Well Name: PAKSE 4 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NWNE /	County or Parish/State:
Well Number: 114H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM16640B	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552270	Well Status: Approved Application for Permit to Drill	Operator: EARTHSTONE OPERATING LLC

Notice of Intent

Sundry ID: 2775706

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/19/2024

Date proposed operation will begin: 03/16/2024

Type of Action: APD Change Time Sundry Submitted: 02:16 5

Procedure Description: SUNDRY TO REVISE WELL NUMBER, POOL/TARGET, FTP, LTP, BHL WELL NUMBER CHANGE FROM: PAKSE 4 SOUTH FED COM 433H TO: PAKSE 4 SOUTH FED COM 114H; POOL/TARGET FROM: (96438) HAT MESA; WOLFCAMP TO: (53560) SALT LAKE; BONE SPRING; FIRST TAKE POINT FROM: B-24-20S-32E; 100 FNL, 1650 FEL TO: B-24-20S-32E; 100 FNL, 1330 FEL LAST TAKE POINT FROM: G-25-20S-32E; 2539 FNL, 1650 FEL TO: G-25-20S-32E; 2540 FNL, 1330 FEL; BOTTOM HOLE LOCATION FROM: G-25-20S-32E; 2629 FNL, 1650 FEL TO: G-25-20S-32E; 2630 FNL, 1330 FEL; *REVISE CASING DESIGN ATTACHED

NOI Attachments

Procedure Description

Pakse_4_South_Fed_Com__114H_APD_CHANGE_BLM_ATTACHMENTS_20240219141518.pdf

R	eceived by OCD: 3/5/2024 1:39:10 PM Well Name: PAKSE 4 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NWNE /	County or Parish/State: Page 6 of	65
	Well Number: 114H	Type of Well: OIL WELL	Allottee or Tribe Name:	
	Lease Number: NMNM16640B	Unit or CA Name:	Unit or CA Number:	
	US Well Number: 3002552270	Well Status: Approved Application for Permit to Drill	Operator: EARTHSTONE OPERATING LLC	

Conditions of Approval

Additional

Sec24_T20SR32E_PAKSE_3__4___5_SOUTH_FED_COM_Lea_NMNM77055_EARTHSTONE_OPERATING_LLC_2 _20_2024_JS_20240221101905.pdf

Authorized

PAKSE_4_SOUTH_FED_COM_433H_COAs_20240222093018.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: JENNIFER ELROD

Name: EARTHSTONE OPERATING LLC

Title: Senior Regulatory Analyst

Street Address: 300 N MARIENFIELD STREET SUITE 1000

City: MIDLAND

State: TX

Phone: (940) 452-6214

Email address: JENNIFER.ELROD@PERMIANRES.COM

Field

Representative Name:	
Street Address:	
City:	State:
Phone:	
Email address:	

Zip:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Phone: 5752342234 Disposition: Approved

Signature: Chris Walls

BLM POC Title: Petroleum Engineer

BLM POC Email Address: cwalls@blm.gov

Disposition Date: 02/22/2024

Released to Imaging: 3/25/2024 11:10:55 AM

Signed on: FEB 19, 2024 02:16 PM

Sec24-T20SR32E_PAKSE 3, 4, & 5 SOUTH FED COM_Lea_NMNM77055_EARTHSTONE OPERATING LLC_2-20-2024_JS

13 3/8	sur	face csg in a	17 1/2	inch hole.		Design I	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	54.50		J 55	BTC	12.73	1.86	1.5	1,230	5	2.60	3.36	67,035
"B"				BTC				0				0
_	w/8.4#/	g mud, 30min Sfc Csg Test	t psig: 1.374	Tail Cmt	does not	circ to sfc.	Totals:	1,230				67,03
omparison o		nimum Required Cem					rotaibi	1,200				01,00
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
17 1/2	0.6946	920	1233	854	44	9.50	1048	2M				1.56
						e racks S or E)	as per 0.0.1.					
									-			
10 3/4	casir	ng inside the	13 3/8			Design I	Factors		-	Int 1		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	45.50		J 55	BTC	4.49	1.15	1.37	3,500	2	2.47	1.99	159,25
"B"								0				0
	w/8.4#/s	g mud, 30min Sfc Csg Test	t psig: 979				Totals:	3,500	-			159,25
				nded to achieve a top of	0	ft from su	irface or a	1230				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
	0.1882	460	795	719	10	10.00	1447	2M				0.25
12 1/4	0.1002											
12 1/4 0 V Tool(s):	0.1002						sum of sx	Σ CuFt				2%exce
12 1/4 D V Tool(s): by stage % : Class 'H' tail cm	_	#VALUE!	#VALUE!		Does not me	et CFO cement	sum of sx 460 t excess	<u>Σ CuFt</u> 795	_			Σ%exce 10
D V Tool(s): by stage % : Class 'H' tail cm	nt yld > 1.20				Does not me		460 t excess			Int 2		Σ%exce: 10
D V Tool(s): by stage % : lass 'H' tail cm 8 5/8	nt yld > 1.20	#VALUE! ng inside the Grade	#VALUE!			Design Fac	460 t excess ctors	795	B@s	Int 2 a-B	a-C	10
b V Tool(s): by stage % : lass 'H' tail cm 8 5/8 Segment	nt yld > 1.20 casir #/ft	ng inside the	10 3/4	Coupling	Body	Design Fac Collapse	460 t excess <u>ctors</u> Burst	795	B@s 4	a-B		10
D V Tool(s): by stage % : class 'H' tail cm 8 5/8	nt yld > 1.20 casir	ng inside the				Design Fac	460 t excess ctors	795			a-C 2.97	10
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A"	nt yld > 1.20 casir #/ft 32.00	ng inside the Grade	10 3/4 P 110	Coupling	Body	Design Fac Collapse	460 t excess ctors Burst 1.69	795 Length 5,290 0		a-B		10 Weigł 169,28 0
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A"	nt yld > 1.20 casir #/ft 32.00	ng inside the Grade g mud, 30min Sfc Csg Test	10 3/4 P 110 t psig: 1,500	Coupling mo-fxl	Body	Design Fac Collapse 1.65	460 t excess <u>ctors</u> Burst 1.69 Totals:	795 Length 5,290 0 5,290		a-B	2.97	10 Weigh 169,28 0 169,28
D V Tool(s): by stage % : Class 'H' tail cm 8 5/8 Segment "A"	nt yld > 1.20 casir #/ft 32.00	ng inside the Grade g mud, 30min Sfc Csg Test The cement	10 3/4 P 110 t psig: 1,500	Coupling	Body 5.94	Design Fac Collapse	460 t excess <u>ctors</u> Burst 1.69 Totals:	795 Length 5,290 0 5,290 3500		a-B	2.97	10 Weigh 169,28 0 169,28 overlap.
by stage % : class 'H' tail cm 8 5/8 Segment "A" "B"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g	ng inside the Grade g mud, 30min Sfc Csg Test	10 3/4 P 110 t psig: 1,500 volume(s) are inte	Coupling mo-fxl nded to achieve a top of	Body 5.94	Design Fac Collapse 1.65 ft from su	460 t excess <u>ctors</u> Burst 1.69 Totals: irface or a	795 Length 5,290 0 5,290		a-B	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis
by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g Annular	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage	Coupling mo-fxl nded to achieve a top of Min	Body 5.94 0 1 Stage	Design Fac Collapse 1.65 ft from su Drilling	460 t excess ctors Burst 1.69 Totals: irface or a Calc MASP	795 Length 5,290 0 5,290 3500 Req'd		a-B	2.97	10 Weigh 169,28 0 169,28
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g Annular Volume 0.1261	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt	Coupling mo-fxl nded to achieve a top of Min Cu Ft	Body 5.94 0 1 Stage	Design Fac Collapse 1.65 ft from su Drilling Mud Wt	460 t excess ctors Burst 1.69 Totals: urface or a Calc	795 Length 5,290 0 5,290 3500 Req'd BOPE		a-B	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g Annular Volume 0.1261	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt	Coupling mo-fxl nded to achieve a top of Min Cu Ft	Body 5.94 0 1 Stage % Excess 1	Design Fac Collapse 1.65 ft from su Drilling Mud Wt	460 t excess ctors Burst 1.69 Totals: irface or a Calc MASP	795 Length 5,290 0 5,290 3500 Req'd BOPE		a-B	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g Annular Volume 0.1261	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696	Body 5.94 0 1 Stage % Excess 1	Design Fac Collapse 1.65 ft from su Drilling Mud Wt	460 t excess ctors Burst 1.69 Totals: irface or a Calc MASP	795 Length 5,290 0 5,290 3500 Req'd BOPE		a-B	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8	nt yld > 1.20 casir #/ft 32.00 w/8.4#/f Annular Volume 0.1261 nt yld > 1.35	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696	Body 5.94 0 1 Stage % Excess 1	Design Fac Collapse 1.65 ft from su Drilling Mud Wt	460 t excess ctors Burst 1.69 Totals: irface or a Calc MASP 3305	795 Length 5,290 0 5,290 3500 Req'd BOPE		a-B	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm	nt yld > 1.20 casir #/ft 32.00 w/8.4#/f Annular Volume 0.1261 nt yld > 1.35	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696	Body 5.94 0 1 Stage % Excess 1	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50	460 t excess ctors Burst 1.69 Totals: irface or a Calc MASP 3305	795 Length 5,290 0 5,290 3500 Req'd BOPE		a-B 2.93	2.97	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm	nt yld > 1.20 casir #/ft 32.00 w/8.4#/f Annular Volume 0.1261 nt yld > 1.35 casir	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme	Body 5.94 0 1 Stage % Excess 1 ent excess	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50	460 t excess ctors Burst 1.69 Totals: inface or a Calc MASP 3305	795 Length 5,290 0 5,290 3500 Req'd BOPE 5M	4	a-B 2.93 Prod 1	2.97 a-C	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp 0.63 Weigh
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm 5 1/2 Segment	nt yld > 1.20 casir #/ft 32.00 w/8.4#/g Annular Volume 0.1261 nt yld > 1.35 casir #/ft	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling	Body 5.94 0 1 Stage % Excess 1 ent excess Joint	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 <u>Design I</u> Collapse	460 t excess ctors Burst 1.69 Totals: urface or a Calc MASP 3305 S Factors Burst	795 Length 5,290 3500 Req'd BOPE 5M	4 B@s	a-B 2.93 Prod 1 a-B	2.97 a-C 3.36	10 Weigh 169,28 overlap. Min Dis Hole-Cp 0.63 Weigh 227,04
D V Tool(s): by stage % : lass 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 lass 'C' tail cm 5 1/2 Segment "A"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/ft Annular Volume 0.1261 nt yld > 1.35 casir #/ft 20.00 20.00	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8 P 110 P 110 P 110	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling geoconn	Body 5.94 0 1 Stage % Excess 1 ent excess Joint 1.15	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 <u>Design I</u> Collapse 1.73	460 t excess Ctors Burst 1.69 Totals: Irface or a Calc MASP 3305 S Factors Burst 2.39	795 Length 5,290 3500 Req'd BOPE 5M Length 11,352	4 B@s 2	а-В 2.93 Ргод 1 а-В 4.15	2.97 a-C 3.36	10 Weigl 169,28 overlap. Min Dia Hole-Cp 0.63 Weigl 227,04 253,38
D V Tool(s): by stage % : lass 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm 5 1/2 Segment "A"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/ft Annular Volume 0.1261 nt yld > 1.35 casir #/ft 20.00 20.00	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410 ng inside the Grade g mud, 30min Sfc Csg Test	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8 P 110 P 110 P 110 t psig: 2,428	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling geoconn	Body 5.94 0 1 Stage % Excess 1 ent excess Joint 1.15	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 <u>Design I</u> Collapse 1.73	460 t excess ctors Burst 1.69 Totals: urface or a Calc MASP 3305 Sage 2.39 Totals:	795 Length 5,290 0 5,290 3500 Req'd BOPE 5M Length 11,352 12,669	4 B@s 2	а-В 2.93 Ргод 1 а-В 4.15	2.97 a-C 3.36 3.36	10 Weigl 169,28 0 169,28 0 verlap. Min Di Hole-Cp 0.63 Weigl 227,04 253,38 480,42
D V Tool(s): by stage % : lass 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm 5 1/2 Segment "A"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/ft Annular Volume 0.1261 nt yld > 1.35 casir #/ft 20.00 20.00	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410 ng inside the Grade g mud, 30min Sfc Csg Test	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8 P 110 P 110 P 110 t psig: 2,428	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling geoconn geoconn	Body 5.94 0 1 Stage % Excess 1 ent excess Joint 1.15 ∞	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 <u>Design I</u> Collapse 1.73 1.94	460 t excess ctors Burst 1.69 Totals: urface or a Calc MASP 3305 Sage 2.39 Totals:	795 Length 5,290 0 5,290 3500 Req'd BOPE 5M 11,352 12,669 24,021	4 B@s 2	а-В 2.93 Ргод 1 а-В 4.15	2.97 a-C 3.36 3.36	10 Weigl 169,28 0 169,28 0verlap. Min Dis Hole-Cp 0.63 Weigl 227,04 253,38 480,42 overlap.
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm 5 1/2 Segment "A" "B"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/{ Annular Volume 0.1261 nt yld > 1.35 casir #/ft 20.00 20.00 w/8.4#/{	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410 ng inside the Grade g mud, 30min Sfc Csg Test The cement	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8 P 110 P 110 P 110 P 110 t psig: 2,428 volume(s) are inte	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling geoconn geoconn nded to achieve a top of	Body 5.94 0 1 Stage % Excess 1 ent excess Joint 1.15 ∞ 5090	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 <u>Design I</u> Collapse 1.73 1.94 ft from su	460 t excess Ctors Burst 1.69 Totals: Irface or a Calc MASP 3305 S S S S S S S S S S S S S S S S S S S	795 Length 5,290 3500 Req'd BOPE 5M Length 11,352 12,669 24,021 200 Req'd	4 B@s 2	а-В 2.93 Ргод 1 а-В 4.15	2.97 a-C 3.36 3.36	10 Weigh 169,28 0 169,28 overlap. Min Dis Hole-Cp 0.63 Weigh 227,04 253,38 480,42 overlap. Min Dis
D V Tool(s): by stage % : class 'H' tail cm 8 5/8 Segment "A" "B" Hole Size 9 7/8 class 'C' tail cm 5 1/2 Segment "A" "B"	nt yld > 1.20 casir #/ft 32.00 w/8.4#/f Annular Volume 0.1261 nt yld > 1.35 casir #/ft 20.00 20.00 w/8.4#/f Annular	ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 410 ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage	10 3/4 P 110 t psig: 1,500 volume(s) are inte 1 Stage CuFt Cmt 705 8 5/8 P 110 P 110 P 110 t psig: 2,428 volume(s) are inte 1 Stage	Coupling mo-fxl nded to achieve a top of Min Cu Ft 696 Does not meet CFO ceme Coupling geoconn geoconn geoconn	Body 5.94 0 1 Stage % Excess 1 ent excess Joint 1.15 ∞ 5090 1 Stage	Design Fac Collapse 1.65 ft from su Drilling Mud Wt 9.50 Design I Collapse 1.73 1.94 ft from su Drilling	460 t excess ctors Burst 1.69 Totals: urface or a Calc MASP 3305 Factors Burst 2.39 2.39 Totals: urface or a Calc	795 Length 5,290 3500 80PE 5M Length 11,352 12,669 24,021 200	4 B@s 2	а-В 2.93 Ргод 1 а-В 4.15	2.97 a-C 3.36 3.36	10 Weigh 169,28 0 169,28 0 verlap. Min Dis Hole-Cp 0.63 Weigh 227,04 253,38 480,42

PAKSE 3, 4, & 5 SOUTH FED COM

Carlsbad Field Office

2/21/2024

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Permian Resources Operating, LLC

Lea County, NM (NAD 83 NME) Pakse Pad - S24 T20S R32E Pakse 4 South Fed Com 114H

OWB Plan 1

Anticollision Report

09 February, 2024



Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
	1 0,		
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum
Reference	Plan 1		

Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria								
Interpolation Method:	MD Interval 100.0usft	Error Model:	ISCWSA						
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D						
Results Limited by:	Maximum center-center distance of 1,000.0 usft	Error Surface:	Pedal Curve						
Warning Levels Evaluate	d at: 2.00 Sigma	Casing Method:	Not applied						

Survey Tool Program		Date 2/9/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	16,587.	0 Plan 1 (OWB)	MWD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
Pakse Pad - S24 T20S R32E						
Pakse 4 South Fed Com 213H - OWB - Plan 1	1,000.0	1,000.0	90.0	83.3	13.405	CC, ES
Pakse 4 South Fed Com 213H - OWB - Plan 1	1,200.0	1,199.8	96.7	88.6	11.893	SF
Pakse 4 South Fed Com 223H - OWB - Plan 1	1,000.0	1,000.0	60.0	53.3	8.936	CC, ES
Pakse 4 South Fed Com 223H - OWB - Plan 1	4,000.0	4,007.1	115.6	87.1	4.057	SF
Pakse 4 South Fed Com 303H - OWB - Plan 1	1,000.0	1,000.0	120.0	113.3	17.873	CC, ES
Pakse 4 South Fed Com 303H - OWB - Plan 1	8,800.0	8,768.1	990.2	928.0	15.925	SF
Pakse 4 South Fed Com 433H - OWB - Plan 1	1,000.0	1,000.0	30.0	23.3	4.468	CC, ES
Pakse 4 South Fed Com 433H - OWB - Plan 1	1,100.0	1,100.0	31.7	24.3	4.266	SF

Offset De	•		Pad - S24	T20S R32E	- Pakse	4 South Fee	d Com 213H -	OWB - Plar	n 1				Offset Site Error:	0.0 us
urvey Prog Refer		WD Offse	et	Semi Major	Axis				Dista	ince			Offset Well Error:	0.0 us
/leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.5	-90.0	90.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.31	-0.5	-90.0	90.0	89.7	0.26	343.930		
200.0	200.0	200.0	200.0	0.5	0.5	-90.31	-0.5	-90.0	90.0	89.0	0.98	91.967		
300.0	300.0	300.0	300.0	0.8	0.8	-90.31	-0.5	-90.0	90.0	88.3	1.70	53.080		
400.0	400.0	400.0	400.0	1.2	1.2	-90.31	-0.5	-90.0	90.0	87.6	2.41	37.306		
500.0	500.0	500.0	500.0	1.6	1.6	-90.31	-0.5	-90.0	90.0	86.9	3.13	28.759		
600.0	600.0	600.0	600.0	1.9	1.9	-90.31	-0.5	-90.0	90.0	86.2	3.85	23.399		
700.0	700.0	700.0	700.0	2.3	2.3	-90.31	-0.5	-90.0	90.0	85.4	4.56	19.723		
800.0	800.0	800.0	800.0	2.6	2.6	-90.31	-0.5	-90.0	90.0	84.7	5.28	17.045		
900.0	900.0	900.0	900.0	3.0	3.0	-90.31	-0.5	-90.0	90.0	84.0	6.00	15.007		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.31	-0.5	-90.0	90.0	83.3	6.71	13.405 CC,	ES	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-163.75	-0.5	-90.0	91.7	84.3	7.42	12.347		
1,200.0	1,199.8	1,199.8	1,199.8	4.1	4.1	-164.59	-0.5	-90.0	96.7	88.6	8.13	11.893 SF		
1,300.0	1,299.5	1,296.1	1,296.1	4.4	4.4	-165.45	0.0	-91.5	106.7	97.9	8.82	12.097		
1,400.0	1,398.8	1,391.3	1,391.1	4.8	4.7	-165.96	1.5	-96.1	122.7	113.2	9.50	12.926		
1,500.0	1,498.0	1,485.3	1,484.8	5.1	5.1	-165.95	3.9	-103.5	142.2	132.1	10.15	14.009		
1,600.0	1,597.3	1,579.6	1,578.5	5.5	5.4	-165.57	7.2	-113.7	164.6	153.8	10.81	15.220		
1,700.0	1,696.5	1,676.9	1,675.1	5.9	5.8	-165.19	10.9	-125.0	187.6	176.1	11.50	16.311		
1,800.0	1,795.8	1,774.2	1,771.6	6.3	6.1	-164.89	14.5	-136.3	210.7	198.5	12.20	17.273		
1,900.0	1,895.0	1,871.5	1,868.2	6.7	6.5	-164.65	18.2	-147.6	233.8	220.9	12.90	18.127		

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Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Refer	ence	Offs	et	Semi Major	Axis				Dista	nce			Offset Well Error:	0.0
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
)epth usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
2,000.0	1,994.3	1,968.8	1,964.8	7.1	6.9	-164.45	21.9	-158.8	256.9	243.3	13.60	18.890		
2,100.0	2,093.5	2,066.1	2,061.4	7.5	7.2	-164.29	25.5	-170.1	279.9	265.6	14.30	19.575		
2,200.0	2,192.8	2,163.4	2,157.9	7.8	7.6	-164.15	29.2	-181.4	303.0	288.0	15.01	20.193		
2,300.0	2,292.1	2,260.7	2,254.5	8.2	8.0	-164.03	32.8	-192.7	326.1	310.4	15.71	20.754		
2,400.0	2,391.3	2,358.0	2,351.1	8.6	8.4	-163.93	36.5	-203.9	349.2	332.8	16.42	21.265		
2,500.0	2,490.6	2,455.3	2,447.7	9.0	8.8	-163.83	40.2	-215.2	372.3	355.1	17.13	21.731		
2,600.0	2,589.8	2,552.6	2,544.2	9.4	9.1	-163.75	43.8	-226.5	395.4	377.5	17.84	22.159		
2,700.0	2,689.1	2,649.9	2,640.8	9.8	9.5	-163.68	47.5	-237.7	418.4	399.9	18.55	22.553		
2,800.0	2,788.3	2,747.2	2,737.4	10.2	9.9	-163.62	51.1	-249.0	441.5	422.3	19.27	22.917		
2,900.0	2,887.6	2,844.5	2,833.9	10.6	10.3	-163.56	54.8	-260.3	464.6	444.6	19.98	23.254		
3,000.0	2,986.8	2,941.8	2,930.5	11.0	10.7	-163.51	58.5	-271.6	487.7	467.0	20.69	23.567		
3,100.0	3,086.1	3,039.1	3,027.1	11.4	11.1	-163.46	62.1	-282.8	510.8	489.4	21.41	23.858		
3,200.0	3,185.3	3,136.4	3,123.7	11.8	11.5	-163.42	65.8	-294.1	533.9	511.7	22.12	24.130		
3,300.0	3,284.6	3,233.6	3,220.2	12.2	11.8	-163.38	69.4	-305.4	557.0	534.1	22.84	24.384		
3,400.0	3,383.9	3,330.9	3,316.8	12.6	12.2	-163.34	73.1	-316.7	580.0	556.5	23.56	24.622		
3,500.0	3,483.1	3,428.2	3,413.4	13.0	12.6	-163.31	76.8	-327.9	603.1	578.9	24.27	24.846		
3,600.0	3,582.4	3,525.5	3,510.0	13.4	13.0	-163.28	80.4	-339.2	626.2	601.2	24.99	25.056		
3,700.0	3,681.6	3,622.8	3,606.5	13.8	13.4	-163.25	84.1	-350.5	649.3	623.6	25.71	25.255		
3,800.0	3,780.9	3,720.1	3,703.1	14.2	13.8	-163.22	87.7	-361.8	672.4	646.0	26.43	25.442		
3,900.0	3,880.1	3,817.4	3,799.7	14.6	14.2	-163.19	91.4	-373.0	695.5	668.3	27.15	25.619		
4,000.0	3,979.4	3,914.7	3,896.3	15.0	14.6	-163.17	95.0	-384.3	718.6	690.7	27.87	25.786		
4 100 0	4 079 6	4 012 0	3,992.8	15.4	15.0	-163.15	98.7	205.6	744 7	713.1	28.59	25.045		
4,100.0 4,200.0	4,078.6 4,177.9	4,012.0 4,109.3	3,992.8 4,089.4	15.4 15.8	15.0 15.4	-163.15	90.7 102.4	-395.6 -406.8	741.7 764.8	735.4	20.59	25.945 26.096		
4,200.0	4,177.9	4,109.3	4,089.4	16.2	15.4	-163.13	102.4	-400.8	787.3	757.1	30.15	26.110		
4,400.0	4,277.2	4,224.4	4,203.7	16.2	16.3	-163.12	109.5	-419.4	806.0	774.9	31.09	25.928		
4,500.0	4,475.7	4,493.3	4,472.2	10.7	16.8	-163.49	110.7	-432.6	820.3	788.4	31.97	25.662		
4,600.0	4,574.9	4,596.1	4,574.9	17.5	17.1	-163.74	110.7	-432.6	832.0	799.4	32.69	25.453		
4,700.0	4,674.2	4,695.3	4,674.2	17.9	17.5	-163.97	110.7	-432.6	843.8	810.4	33.40	25.263		
4,800.0	4,773.4	4,794.6	4,773.4	18.3	17.8	-164.19	110.7	-432.6	855.5	821.4	34.11	25.080		
4,900.0 5,000.0	4,872.7 4,971.9	4,893.8 4,993.1	4,872.7 4,971.9	18.7 19.1	18.1 18.5	-164.41 -164.63	110.7 110.7	-432.6 -432.6	867.2 879.0	832.4 843.4	34.82 35.53	24.905 24.737		
0,000.0	1,01110	1,000.1	1,07110	10.1	10.0	101.00		102.0	010.0	0.0.1	00.00	2		
5,100.0	5,071.2	5,092.3	5,071.2	19.5	18.8	-164.83	110.7	-432.6	890.7	854.5	36.24	24.576		
5,200.0	5,170.4	5,191.6	5,170.4	19.9	19.1	-165.04	110.7	-432.6	902.5	865.5	36.96	24.421		
5,300.0	5,269.7	5,290.8	5,269.7	20.3	19.5	-165.23	110.7	-432.6	914.3	876.6	37.67	24.272		
5,400.0	5,369.0	5,390.1	5,369.0	20.7	19.8	-165.42	110.7	-432.6	926.1	887.7	38.38	24.129		
5,500.0	5,468.2	5,489.4	5,468.2	21.1	20.1	-165.61	110.7	-432.6	937.9	898.8	39.09	23.991		
5,600.0	5,567.5	5,588.6	5,567.5	21.5	20.5	-165.79	110.7	-432.6	949.7	909.9	39.81	23.857		
5,700.0	5,666.7	5,687.9	5,666.7	21.9	20.8	-165.98	110.7	-432.6	961.5	921.0	40.52	23.729		
5,800.0	5,766.2	5,787.3	5,766.2	22.3	21.1	-166.17	110.7	-432.6	971.4	930.2	41.23	23.561		
5,900.0	5,866.0	5,887.1	5,866.0	22.7	21.5	-166.30	110.7	-432.6	978.0	936.1	41.94	23.320		
6,000.0	5,965.9	5,987.0	5,965.9	23.0	21.8	-166.36	110.7	-432.6	981.2	938.6	42.64	23.010		
6,100.0	6,065.9	6,087.0	6,065.9	23.3	22.2	-93.22	110.7	-432.6	981.5	938.2	43.34	22.649		
6,200.0	6,165.9	6,187.0	6,165.9	23.7	22.5	-93.22	110.7	-432.6	981.5	937.5	44.03	22.293		
6,300.0	6,265.9	6,287.0	6,265.9	24.0	22.9	-93.22	110.7	-432.6	981.5	936.8	44.72	21.948		
6,400.0	6,365.9	6,387.0	6,365.9	24.3	23.2	-93.22	110.7	-432.6	981.5	936.1	45.41	21.613		
6,500.0	6,465.9	6,487.0	6,465.9	24.6	23.5	-93.22	110.7	-432.6	981.5	935.4	46.11	21.288		
6,600.0	6,565.9	6,587.0	6,565.9	25.0	23.9	-93.22	110.7	-432.6	981.5	934.7	46.80	20.972		
6,700.0	6,665.9	6,687.0	6,665.9	25.0 25.3	23.9 24.2	-93.22 -93.22	110.7	-432.6 -432.6	981.5 981.5	934.7 934.0	46.80	20.972		
6,800.0	6,765.9	6,787.0	6,765.9	25.3 25.6	24.2 24.6	-93.22 -93.22	110.7	-432.6 -432.6	981.5 981.5	934.0 933.3	47.50 48.19	20.665		
6,900.0	6,865.9	6,787.0	6,865.9	25.6 26.0	24.6 24.9	-93.22 -93.22	110.7	-432.6 -432.6	981.5 981.5	933.3 932.7	48.19	20.367		
7,000.0	6,965.9	6,987.0	6,965.9	26.0	24.9 25.3	-93.22	110.7	-432.6	961.5 981.5	932.7	40.09	19.794		
,	.,	.,	.,											
7,100.0	7,065.9	7,087.0	7,065.9	26.6	25.6	-93.22	110.7	-432.6	981.5	931.3	50.28	19.520		

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PERMIAN

RESOURCES

Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum
	•=		0

Offset De	sign	Pakse F	Pad - S24	T20S R32E	- Pakse	4 South Fe	d Com 213H -	OWB - Plar	n 1				Offset Site Error:	0.0 usft
Survey Prog	ram: 0-M	WD											Offset Well Error:	0.0 usft
Refer		Offse		Semi Major					Dista					
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	Factor		
7,200.0	7,165.9	7,187.0	7,165.9	26.9	26.0	-93.22	110.7	-432.6	981.5	930.6	50.98	19.252		
7,300.0	7,265.9	7,287.0	7,265.9	27.3	26.3	-93.22	110.7	-432.6	981.5	929.9	51.68	18.992		
7,400.0	7,365.9	7,387.0	7,365.9	27.6	26.7	-93.22	110.7	-432.6	981.5	929.2	52.38	18.739		
7,500.0	7,465.9	7,487.0	7,465.9	27.9	27.0	-93.22	110.7	-432.6	981.5	928.5	53.08	18.492		
7,600.0	7,565.9	7,587.0	7,565.9	28.3	27.4	-93.22	110.7	-432.6	981.5	927.8	53.78	18.251		
7,700.0	7,665.9	7,687.0	7,665.9	28.6	27.7	-93.22	110.7	-432.6	981.5	927.1	54.48	18.016		
7,800.0	7,765.9	7,787.0	7,765.9	29.0	28.1	-93.22	110.7	-432.6	981.5	926.4	55.18	17.787		
7,900.0	7,865.9	7,887.0	7,865.9	29.3	28.4	-93.22	110.7	-432.6	981.5	925.7	55.88	17.564		
8,000.0	7,965.9	7,987.0	7,965.9	29.6	28.8	-93.22	110.7	-432.6	981.5	925.0	56.59	17.346		
8,100.0	8,065.9	8,087.0	8,065.9	30.0	29.1	-93.22	110.7	-432.6	981.5	924.3	57.29	17.134		
8,200.0	8,165.9	8,187.0	8,165.9	30.3	29.5	-93.22	110.7	-432.6	981.5	923.6	57.99	16.926		
8,300.0	8,265.9	8,287.0	8,265.9	30.6	29.8	-93.22	110.7	-432.6	981.5	922.8	58.69	16.723		
8,400.0	8,365.9	8,387.0	8,365.9	31.0	30.2	-93.22	110.7	-432.6	981.5	922.1	59.40	16.525		
8,500.0	8,465.9	8,487.0	8,465.9	31.3	30.5	87.11	110.7	-432.6	981.5	921.4	60.10	16.332		
8,600.0	8,565.1	8,586.2	8,565.1	31.6	30.9	87.81	110.7	-432.6	981.0	920.3	60.77	16.143		
8,700.0	8,659.8	8,680.9	8,659.8	31.9	31.2	89.63	110.7	-432.6	980.3	918.9	61.41	15.964		
8,716.1	8,674.3	8,695.5	8,674.3	31.9	31.2	90.00	110.7	-432.6	980.3	918.8	61.50	15.940		
8,800.0	8,745.9	8,767.0	8,745.9	32.1	31.5	92.05	110.7	-432.6	981.3	919.3	61.96	15.837		
8,900.0	8,819.6	8,840.7	8,819.6	32.3	31.7	94.30	110.7	-432.6	986.6	924.1	62.45	15.799		
9,000.0	8,877.7	8,898.8	8,877.7	32.4	31.9	95.53	110.7	-432.6	998.9	936.1	62.86	15.892		

Anticollision Report



-			
Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Des	sign	Pakse F	Pad - S24	T20S R32E	- Pakse	4 South Fee	d Com 223H -	OWB - Plar	า 1				Offset Site Error:	0.0 usf
urvey Progr	am: 0-M			o									Offset Well Error:	0.0 usf
Refere /leasured	ence Vertical	Offse Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	nce Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warning	
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.3	-60.0	60.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.31	-0.3	-60.0	60.0	59.7	0.26	229.287		
200.0	200.0	200.0	200.0	0.5	0.5	-90.31	-0.3	-60.0	60.0	59.0	0.98	61.311		
300.0	300.0	300.0	300.0	0.8	0.8	-90.31	-0.3	-60.0	60.0	58.3	1.70	35.387		
400.0	400.0	400.0	400.0	1.2	1.2	-90.31	-0.3	-60.0	60.0	57.6	2.41	24.871		
500.0	500.0	500.0	500.0	1.6	1.6	-90.31	-0.3	-60.0	60.0	56.9	3.13	19.173		
600.0	600.0	600.0	600.0	1.9	1.9	-90.31	-0.3	-60.0	60.0	56.2	3.85	15.599		
700.0	700.0	700.0	700.0	2.3	2.3	-90.31	-0.3	-60.0	60.0	55.4	4.56	13.148		
800.0	800.0	800.0	800.0	2.6	2.6	-90.31	-0.3	-60.0	60.0	54.7	5.28	11.363		
900.0	900.0	900.0	900.0	3.0	3.0	-90.31	-0.3	-60.0	60.0	54.0	6.00	10.005		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.31	-0.3	-60.0	60.0	53.3	6.71	8.936	CC, ES	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-163.90	-0.3	-60.0	61.7	54.3	7.42	8.307		
1,200.0	1,199.8	1,199.8	1,199.8	4.1	4.1	-165.12	-0.3	-60.0	66.7	58.6	8.13	8.205		
1,300.0	1,299.5	1,299.5	1,299.5	4.4	4.4	-166.79	-0.3	-60.0	75.2	66.3	8.84	8.504		
1,400.0	1,398.8	1,398.8	1,398.8	4.8	4.8	-168.54	-0.3	-60.0	86.7	77.1	9.55	9.076		
1,500.0	1,498.0	1,501.3	1,501.3	5.1	5.1	-169.72	0.3	-58.3	97.0	86.7	10.26	9.453		
1,600.0	1,597.3	1,604.6	1,604.4	5.5	5.5	-170.16	2.4	-53.2	103.8	92.9	10.96	9.475		
1,700.0	1,696.5	1,708.2	1,707.7	5.9	5.9	-170.06	5.8	-44.6	107.2	95.5	11.65	9.200		
1,800.0	1,795.8	1,809.8	1,808.4	6.3	6.2	-169.56	10.3	-33.4	107.7	95.4	12.35	8.718		
1,900.0	1,895.0	1,909.8	1,907.7	6.7	6.6	-169.02	14.8	-22.1	107.9	94.9	13.07	8.260		
2,000.0	1,994.3	2,009.7	2,006.9	7.1	7.0	-168.49	19.3	-10.8	108.2	94.4	13.78	7.848		
2,100.0	2,093.5	2,109.7	2,106.2	7.5	7.4	-167.96	23.8	0.6	108.4	93.9	14.50	7.476		
2,200.0	2,192.8	2,209.7	2,205.4	7.8	7.7	-167.43	28.3	11.9	108.7	93.5	15.22	7.139		
2,300.0	2,292.1	2,309.7	2,304.7	8.2	8.1	-166.90	32.8	23.2	109.0	93.0	15.95	6.832		
2,400.0	2,391.3	2,409.7	2,403.9	8.6	8.5	-166.38	37.3	34.5	109.2	92.6	16.67	6.551		
2,500.0	2,490.6	2,509.7	2,503.2	9.0	8.9	-165.86	41.9	45.9	109.5	92.1	17.40	6.293		
2,600.0	2,589.8	2,609.7	2,602.4	9.4	9.3	-165.34	46.4	57.2	109.8	91.7	18.13	6.056		
2,700.0	2,689.1	2,709.7	2,701.7	9.8	9.7	-164.83	50.9	68.5	110.1	91.3	18.86	5.838		
2,800.0	2,788.3	2,809.7	2,800.9	10.2	10.0	-164.32	55.4	79.8	110.4	90.8	19.60	5.635		
2,900.0	2,887.6	2,909.7	2,900.2	10.6	10.4	-163.81	59.9	91.1	110.8	90.4	20.33	5.448		
3,000.0	2,986.8	3,009.7	2,999.4	11.0	10.8	-163.30	64.4	102.5	111.1	90.0	21.07	5.273		
3,100.0	3,086.1	3,109.7	3,098.7	11.4	11.2	-162.80	68.9	113.8	111.4	89.6	21.80	5.110		
3,200.0	3,185.3	3,209.7	3,197.9	11.8	11.6	-162.30	73.4	125.1	111.8	89.2	22.54	4.958		
3,300.0	3,284.6	3,309.7	3,297.2	12.2	12.0	-161.80	77.9	136.4	112.1	88.8	23.28	4.816		
3,400.0	3,383.9	3,409.7	3,396.4	12.6	12.4	-161.31	82.4	147.7	112.5	88.5	24.03	4.682		
3,500.0	3,483.1	3,509.7	3,495.7	13.0	12.8	-160.82	87.0	159.1	112.9	88.1	24.77	4.557		
3,600.0	3,582.4	3,609.7	3,594.9	13.4	13.2	-160.33	91.5	170.4	113.2	87.7	25.51	4.439		
3,700.0	3,681.6	3,709.7	3,694.2	13.8	13.6	-159.85	96.0	181.7	113.6	87.4	26.26	4.328		
3,800.0	3,780.9	3,809.6	3,793.4	14.2	14.0	-159.37	100.5	193.0	114.0	87.0	27.00	4.223		
3,900.0	3,880.1	3,909.6	3,892.7	14.6	14.4	-158.89	105.0	204.4	114.4	86.7	27.75	4.124		
4,000.0	3,979.4	4,007.1	3,989.5	15.0	14.8	-158.61	109.1	214.6	115.6	87.1	28.50	4.057	SF	
4,100.0	4,078.6	4,103.5	4,085.6	15.4	15.1	-159.01	112.0	221.9	119.7	90.5	29.21	4.098		
4,200.0	4,177.9	4,200.0	4,182.0	15.8	15.5	-160.02	113.7	226.2	126.8	97.0	29.89	4.244		
4,300.0	4,277.2	4,295.2	4,277.2	16.2	15.8	-161.45	114.2	227.4	137.1	106.5	30.52	4.490		
4,400.0	4,376.4	4,394.5	4,376.4	16.7	16.2	-162.94	114.2	227.4	148.7	117.5	31.21	4.764		
4,500.0	4,475.7	4,493.7	4,475.7	17.1	16.5	-164.22	114.2	227.4	160.4	128.5	31.90	5.027		
4,600.0	4,574.9	4,593.0	4,574.9	17.5	16.8	-165.32	114.2	227.4	172.1	139.5	32.60	5.280		
4,700.0	4,674.2	4,692.2	4,674.2	17.9	17.2	-166.28	114.2	227.4	183.9	150.6	33.30	5.524		
4,800.0	4,773.4	4,791.5	4,773.4	18.3	17.5	-167.13	114.2	227.4	195.8	161.8	34.00	5.759		
4,900.0	4,872.7	4,890.7	4,872.7	18.7	17.8	-167.88	114.2	227.4	207.7	173.0	34.71	5.985		
5,000.0	4,971.9	4,990.0	4,971.9	19.1	18.2	-168.54	114.2	227.4	219.6	184.2	35.41	6.202		
5,100.0	5,071.2	5,089.2	5,071.2	19.5	18.5	-169.14	114.2	227.4	231.6	195.5	36.12	6.412		

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Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
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Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Depth (usft) Depth (u 5,200.0 5,300.0 5,300.0 5,600.0 5,500.0 5,600.0 5,700.0 5,800.0 5,900.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,300.0 6,300.0 6,400.0 6,500.0	e	VD Measured Depth (usft) 5,188.5 5,287.8 5,387.0 5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9 6,283.9	t Vertical Depth (usft) 5,170.4 5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.5	Semi Major Reference (usft) 20.3 20.7 21.1 21.5 21.9 22.3 22.7 23.0 23.3	Axis Offset (usft) 18.9 19.2 19.5 19.9 20.2 20.6 20.9 21.3 21.6	Highside Toolface (°) -169.68 -170.17 -170.62 -171.02 -171.40 -171.74 -172.04 -172.22	Offset Wellbor +N/-S (usft) 114.2 114.2 114.2 114.2 114.2 114.2 114.2 114.2	e Centre +E/-W (usft) 227.4 227.4 227.4 227.4 227.4 227.4 227.4	Dista Between Centres (usft) 243.6 255.6 267.6 279.6 291.7	Between Ellipses (usft) 206.7 218.0 229.3	Minimum Separation (usft) 36.83 37.54 38.25	Separation Factor 6.614 6.808 6.996	Offset Well Error: Warning	0.0 usft
Measured Depth (usft) Ye D (u 5,200.0 5,300.0 5,300.0 5,500.0 5,600.0 5,500.0 5,500.0 5,500.0 5,800.0 6,000.0 6,000.0 6,200.0 6,300.0 6,300.0 6,500.0 6,500.0	ertical bepth (usft) 5,170.4 5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	Beasured Depth (usft) 5,188.5 5,287.8 5,387.0 5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	Vertical Depth (usft) 5,170.4 5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	Reference (usft) 19.9 20.3 20.7 21.1 21.5 21.9 22.3 22.7 23.0 23.3	Offset (usft) 18.9 19.2 19.5 19.9 20.2 20.6 20.9 21.3	Toolface (°) -169.68 -170.17 -170.62 -171.02 -171.40 -171.74 -172.04	+N/-S (usft) 114.2 114.2 114.2 114.2 114.2 114.2	+E/-W (usft) 227.4 227.4 227.4 227.4 227.4	Between Centres (usft) 243.6 255.6 267.6 279.6	Between Ellipses (usft) 206.7 218.0 229.3	Separation (usft) 36.83 37.54	6.614 6.808	Warning	
Depth (usft) Depth (u 5,200.0 5,300.0 5,300.0 5,600.0 5,500.0 5,600.0 5,700.0 5,800.0 5,800.0 6,000.0 6,000.0 6,000.0 6,000.0 6,000.0 6,300.0 6,300.0 6,400.0 6,500.0	Depth usft) 5,170.4 5,269.7 5,369.0 5,468.2 5,567.5 5,566.7 5,766.2 5,866.0 5,965.9 6,065.9 6,065.9 6,265.9 6,365.9	Depth (usft) 5,188.5 5,287.8 5,387.0 5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	Depth (usft) 5,170.4 5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	(usft) 19.9 20.3 20.7 21.1 21.5 21.9 22.3 22.7 23.0 23.3	(usft) 18.9 19.2 19.5 19.9 20.2 20.6 20.9 21.3	Toolface (°) -169.68 -170.17 -170.62 -171.02 -171.40 -171.74 -172.04	+N/-S (usft) 114.2 114.2 114.2 114.2 114.2 114.2	+E/-W (usft) 227.4 227.4 227.4 227.4 227.4	Centres (usft) 243.6 255.6 267.6 279.6	Ellipses (usft) 206.7 218.0 229.3	Separation (usft) 36.83 37.54	6.614 6.808	warning	
5,300.0 5,400.0 5,500.0 5,600.0 5,700.0 5,800.0 6,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,300.0 6,300.0 6,500.0	5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,287.8 5,387.0 5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,269.7 5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	20.3 20.7 21.1 21.5 21.9 22.3 22.7 23.0 23.3	19.2 19.5 19.9 20.2 20.6 20.9 21.3	-170.17 -170.62 -171.02 -171.40 -171.74 -172.04	114.2 114.2 114.2 114.2 114.2	227.4 227.4 227.4 227.4	255.6 267.6 279.6	218.0 229.3	37.54	6.808		
5,400.0 5,500.0 5,600.0 5,700.0 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,300.0 6,400.0 6,500.0	5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,265.9	5,387.0 5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,369.0 5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	20.7 21.1 21.5 21.9 22.3 22.7 23.0 23.3	19.5 19.9 20.2 20.6 20.9 21.3	-170.62 -171.02 -171.40 -171.74 -172.04	114.2 114.2 114.2 114.2	227.4 227.4 227.4	267.6 279.6	229.3				
5,500.0 5,600.0 5,700.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,300.0 6,400.0 6,500.0	5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,486.3 5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,468.2 5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	21.1 21.5 21.9 22.3 22.7 23.0 23.3	19.9 20.2 20.6 20.9 21.3	-171.02 -171.40 -171.74 -172.04	114.2 114.2 114.2	227.4 227.4	279.6		38.25	6.996		
5,600.0 5,700.0 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,400.0 6,500.0	5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,585.5 5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,567.5 5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	21.5 21.9 22.3 22.7 23.0 23.3	20.2 20.6 20.9 21.3	-171.40 -171.74 -172.04	114.2 114.2	227.4		040 7				
5,700.0 5,800.0 6,000.0 6,100.0 6,200.0 6,300.0 6,300.0 6,400.0 6,500.0	5,666.7 5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,684.8 5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,666.7 5,766.2 5,866.0 5,965.9 6,065.9	21.9 22.3 22.7 23.0 23.3	20.6 20.9 21.3	-171.74 -172.04	114.2		201 7	240.7	38.96	7.177		
5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,300.0 6,400.0 6,500.0	5,766.2 5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,784.2 5,884.0 5,983.9 6,083.9 6,183.9	5,766.2 5,866.0 5,965.9 6,065.9	22.3 22.7 23.0 23.3	20.9 21.3	-172.04		227.4	201.1	252.0	39.67	7.352		
5,900.0 6,000.0 6,100.0 6,200.0 6,300.0 6,400.0 6,500.0	5,866.0 5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,884.0 5,983.9 6,083.9 6,183.9	5,866.0 5,965.9 6,065.9	22.7 23.0 23.3	21.3		114.2		303.7	263.3	40.39	7.520		
6,000.0 6,100.0 6,200.0 6,300.0 6,400.0 6,500.0	5,965.9 6,065.9 6,165.9 6,265.9 6,365.9	5,983.9 6,083.9 6,183.9	5,965.9 6,065.9	23.0 23.3		-170 00		227.4	313.9	272.8	41.10	7.637		
6,100.0 6,200.0 6,300.0 6,400.0 6,500.0	6,065.9 6,165.9 6,265.9 6,365.9	6,083.9 6,183.9	6,065.9	23.3	21.6		114.2	227.4	320.6	278.8	41.81	7.668		
6,200.0 6,300.0 6,400.0 6,500.0	6,165.9 6,265.9 6,365.9	6,183.9				-172.31	114.2	227.4	323.8	281.3	42.51	7.617		
6,300.0 6,400.0 6,500.0	6,265.9 6,365.9		0,100.0	23.7	22.0 22.3	-99.18 -99.18	114.2 114.2	227.4 227.4	324.2 324.2	280.9 280.2	43.21 43.91	7.502 7.383		
6,400.0 6,500.0	6,365.9	6,283.9	0.005.0											
6,500.0		0 000 0	6,265.9	24.0	22.6	-99.18	114.2	227.4	324.2	279.6	44.60	7.268		
	0,400.9	6,383.9 6,483.9	6,365.9 6,465.9	24.3 24.6	23.0 23.3	-99.18 -99.18	114.2 114.2	227.4 227.4	324.2 324.2	278.9 278.2	45.30 45.99	7.156 7.048		
	6,565.9	6,483.9 6,583.9	6,565.9 6,565.9	24.6 25.0	23.3	-99.18 -99.18	114.2	227.4 227.4	324.2 324.2	278.2	45.99 46.69	6.942		
	6,665.9	6,683.9	6,665.9	25.3	24.0	-99.18	114.2	227.4	324.2	276.8	47.39	6.840		
6,800.0	6,765.9	6,783.9	6,765.9	25.6	24.4	-99.18	114.2	227.4	324.2	276.1	48.09	6.741		
	6,865.9	6,883.9	6,865.9	26.0	24.7	-99.18	114.2	227.4	324.2	275.4	48.79	6.644		
	6,965.9	6,983.9	6,965.9	26.3	25.1	-99.18	114.2	227.4	324.2	274.7	49.49	6.550		
	7,065.9	7,083.9	7,065.9	26.6	25.4	-99.18	114.2	227.4	324.2	274.0	50.19	6.459		
7,200.0	7,165.9	7,183.9	7,165.9	26.9	25.8	-99.18	114.2	227.4	324.2	273.3	50.89	6.370		
7,300.0	7,265.9	7,283.9	7,265.9	27.3	26.1	-99.18	114.2	227.4	324.2	272.6	51.59	6.283		
7,400.0	7,365.9	7,383.9	7,365.9	27.6	26.5	-99.18	114.2	227.4	324.2	271.9	52.29	6.199		
7,500.0	7,465.9	7,483.9	7,465.9	27.9	26.8	-99.18	114.2	227.4	324.2	271.2	52.99	6.117		
7,600.0	7,565.9	7,583.9	7,565.9	28.3	27.2	-99.18	114.2	227.4	324.2	270.5	53.70	6.037		
7,700.0	7,665.9	7,683.9	7,665.9	28.6	27.5	-99.18	114.2	227.4	324.2	269.8	54.40	5.959		
7,800.0	7,765.9	7,783.9	7,765.9	29.0	27.9	-99.18	114.2	227.4	324.2	269.1	55.10	5.883		
7,900.0	7,865.9	7,883.9	7,865.9	29.3	28.2	-99.18	114.2	227.4	324.2	268.3	55.80	5.809		
	7,965.9	7,983.9	7,965.9	29.6	28.6	-99.18	114.2	227.4	324.2	267.6	56.51	5.736		
	8,065.9	8,083.9	8,065.9	30.0	29.0	-99.18	114.2	227.4	324.2	266.9	57.21	5.666		
8,200.0	8,165.9	8,183.9	8,165.9	30.3	29.3	-99.18	114.2	227.4	324.2	266.2	57.92	5.597		
8,300.0	8,265.9	8,283.9	8,265.9	30.6	29.7	-99.18	114.2	227.4	324.2	265.5	58.62	5.530		
	8,365.9	8,383.9	8,365.9	31.0	30.0	-99.18	114.2	227.4	324.2	264.8	59.33	5.464		
	8,465.9	8,483.9	8,465.9	31.3	30.4	81.15	114.2	227.4	324.2	264.1	60.03	5.400		
	8,565.1	8,583.1	8,565.1	31.6	30.7	83.26	114.2	227.4	322.6	261.9	60.72	5.313		
	8,659.8	8,677.8	8,659.8	31.9	31.0	88.83	114.2	227.4	320.4	259.0	61.40	5.218		
	8,675.0	8,693.0	8,675.0	31.9	31.1	90.00	114.2	227.4	320.3	258.8	61.51	5.207		
	8,745.9	8,763.9	8,745.9	32.1	31.3	96.21	114.2	227.4	323.2	261.1	62.06	5.208		
	8,819.6	8,837.6	8,819.6	32.3	31.6	102.91	114.2	227.4	338.9	276.2	62.70	5.405		
	8,877.7 8 017 6	8,895.7 8 935 7	8,877.7 8 017 6	32.4	31.8 32.0	106.47	114.2 114.2	227.4	373.3	310.1 363 9	63.26 63.66	5.902 6 717		
	8,917.6	8,935.7	8,917.6	32.5	32.0	104.97	114.2	227.4	427.6	363.9	63.66	6.717		
	8,937.7	8,955.7	8,937.7	32.7	32.0	96.61	114.2	227.4	497.8	433.9	63.89	7.791		
	8,940.0	8,958.0	8,940.0	33.0	32.0	90.00	114.2	227.4	577.9	513.9	63.99	9.031		
	8,940.0 8,940.0	8,958.0 8,958.0	8,940.0 8,940.0	33.4 33.8	32.0 32.0	90.00 90.00	114.2 114.2	227.4 227.4	663.4 752.5	599.4 688.4	64.06 64.14	10.356 11.733		
	8,940.0 8,940.0	8,958.0 8,958.0	8,940.0 8,940.0	33.8 34.3	32.0 32.0	90.00 90.00	114.2 114.2	227.4	752.5 844.1	688.4 779.9	64.14 64.21	11.733 13.146		
	8,940.0 8 940 0	8,958.0 10,634,1	8,940.0 9.840.0	34.9 35.6	32.0 37.7	90.00 160.41	114.2	227.4	937.4 955.3	873.1	64.28	14.583 21.460		
	8,940.0 8,940.0	10,634.1 10,734.1	9,840.0 9,840.0	35.6 36.3	37.7 38.4	160.41 160.41	-866.8 -966.8	233.1 233.7	955.3 955.3	910.8 910.0	44.51 45.31	21.460 21.081		
	8,940.0 8,940.0	10,734.1	9,840.0 9,840.0	36.3 37.1	38.4 39.1	160.41	-966.8 -1,066.8	233.7 234.2	955.3 955.3	910.0 909.1	45.31 46.17	21.081 20.689		
	8,940.0 8,940.0	10,034.1	9,840.0 9,840.0	37.1	39.1 39.9	160.41	-1,066.8	234.2	955.3 955.3	909.1 908.2	40.17	20.089		
	8,940.0	11,034.1	9,840.0	38.8	40.7	160.41	-1,266.8	235.4	955.3	907.2	48.05	19.880		
10,200.0	0,940.0	11,034.1	9,040.0	30.8	40.7	100.41	-1,200.0	200.4	900.3	907.2	40.05	19.000		

Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

ffset Des urvey Progr	am: 0-M	WD					d Com 223H -						Offset Site Error: Offset Well Error:	0.0 i 0.0 i
Refere		Offset		Semi Major		l linha'd	Offenst Mall	Contro	Dista		Minimum	Constitut		
asured Depth Jusft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.0	8,940.0	11,134.1	9,840.0	39.8	41.6	160.41	-1,366.8	236.0	955.3	906.2	49.07	19.469		
10,400.0	8,940.0	11,234.1	9,840.0	40.7	42.5	160.41	-1,466.8	236.6	955.3	905.1	50.13	19.057		
10,500.0	8,940.0	11,334.1	9,840.0	41.8	43.5	160.41	-1,566.8	237.1	955.3	904.0	51.23	18.646		
10,600.0	8,940.0	11,434.1	9,840.0	42.8	44.5	160.41	-1,666.8	237.7	955.3	902.9	52.38	18.238		
10,700.0	8,940.0	11,534.1	9,840.0	44.0	45.6	160.41	-1,766.8	238.3	955.3	901.7	53.56	17.835		
10,800.0	8,940.0	11,634.1	9,840.0	45.1	46.7	160.41	-1,866.8	238.9	955.3	900.5	54.78	17.437		
10,900.0	8,940.0 8,940.0	11,734.1 11,834.1	9,840.0 9,840.0	46.3 47.5	47.8 48.9	160.41 160.41	-1,966.8 -2,066.8	239.4 240.0	955.3 955.3	899.2 897.9	56.04 57.32	17.047		
11,000.0 11,100.0	8,940.0 8,940.0	11,934.1	9,840.0 9,840.0	47.5	40.9 50.1	160.41	-2,000.8	240.0	955.3	896.6	58.63	16.665 16.292		
11,200.0	8,940.0	12,034.1	9,840.0 9,840.0	48.7	51.3	160.42	-2,266.8	240.0	955.3	895.3	59.98	15.927		
11,300.0	8,940.0	12,134.1	9,840.0	51.2	52.5	160.42	-2,366.8	241.8	955.3	893.9	61.34	15.572		
11,400.0	8,940.0	12,234.1	9,840.0	52.5	53.8	160.42	-2,466.8	242.3	955.3	892.5	62.73	15.227		
11,500.0	8,940.0	12,334.1	9,840.0	53.8	55.1	160.42	-2,566.8	242.9	955.3	891.1	64.15	14.892		
11,600.0	8,940.0	12,434.1	9,840.0	55.2	56.4	160.42	-2,666.8	243.5	955.3	889.7	65.58	14.566		
11,700.0	8,940.0	12,534.1	9,840.0	56.5	57.7	160.42	-2,766.8	244.1	955.3	888.2	67.04	14.250		
11,800.0	8,940.0	12,634.1	9,840.0	57.9	59.0	160.42	-2,866.8	244.6	955.3	886.7	68.51	13.944		
11,900.0	8,940.0	12,734.1	9,840.0	59.3	60.3	160.42	-2,966.8	245.2	955.3	885.3	70.00	13.647		
12,000.0	8,940.0	12,834.1	9,840.0	60.7	61.7	160.42	-3,066.8	245.8	955.3	883.8	71.50	13.360		
12,100.0	8,940.0	12,934.1	9,840.0	62.1	63.1	160.42	-3,166.8	246.4	955.3	882.2	73.02	13.081		
12,200.0	8,940.0	13,034.1	9,840.0	63.5	64.5	160.42	-3,266.7	247.0	955.3	880.7	74.56	12.812		
12,300.0	8,940.0	13,134.1	9,840.0	64.9	65.9	160.42	-3,366.7	247.5	955.3	879.1	76.11	12.551		
12,400.0	8,940.0	13,234.1	9,840.0	66.4	67.3	160.42	-3,466.7	248.1	955.2	877.6	77.67	12.299		
12,500.0	8,940.0	13,334.1	9,840.0	67.8	68.7	160.42	-3,566.7	248.7	955.2	876.0	79.24	12.055		
12,600.0	8,940.0	13,434.1	9,840.0	69.3	70.1	160.42	-3,666.7	249.3	955.2	874.4	80.82	11.819		
12,700.0	8,940.0	13,534.1	9,840.0	70.7	71.6	160.42	-3,766.7	249.9	955.2	872.8	82.42	11.590		
12,800.0	8,940.0	13,634.1	9,840.0	72.2	73.0	160.42	-3,866.7	250.4	955.2	871.2	84.02	11.369		
12,900.0	8,940.0	13,734.1	9,840.0	73.7	74.5	160.42	-3,966.7	251.0	955.2	869.6	85.64	11.155		
13,000.0	8,940.0	13,834.1	9,840.0	75.2	76.0	160.42	-4,066.7	251.6	955.2	868.0	87.26	10.947		
13,100.0	8,940.0	13,934.1	9,840.0	76.7	77.4	160.42	-4,166.7	252.2	955.2	866.4	88.89	10.746		
13,200.0 13,300.0	8,940.0 8,940.0	14,034.1 14,134.1	9,840.0 9,840.0	78.2 79.7	78.9 80.4	160.42 160.42	-4,266.7 -4,366.7	252.7 253.3	955.2 955.2	864.7 863.1	90.53 92.17	10.552 10.364		
13,400.0	8,940.0	14,234.1	9,840.0	81.2	81.9	160.42	-4,466.7	253.9	955.2	861.4	93.83	10.181		
13,500.0	8,940.0	14,334.1	9,840.0	82.8	83.4	160.42	-4,566.7	254.5	955.2	859.8	95.49	10.004		
13,600.0	8,940.0	14,434.1	9,840.0	84.3	84.9	160.42	-4,666.7	255.1	955.2	858.1	97.15	9.832		
13,700.0	8,940.0	14,534.1	9,840.0	85.8	86.4	160.42	-4,766.7	255.6	955.2	856.4	98.82	9.666		
13,800.0	8,940.0	14,634.1	9,840.0	87.4	88.0	160.42	-4,866.7	256.2	955.2	854.7	100.50	9.505		
13,900.0	8,940.0	14,734.1	9,840.0	88.9	89.5	160.42	-4,966.7	256.8	955.2	853.0	102.18	9.348		
14,000.0	8,940.0	14,834.1	9,840.0	90.4	91.0	160.42	-5,066.7	257.4	955.2	851.4	103.87	9.196		
14,100.0	8,940.0	14,934.1	9,840.0	92.0	92.6	160.42	-5,166.7	257.9	955.2	849.7	105.57	9.049		
14,200.0	8,940.0	15,034.1	9,840.0	93.6	94.1	160.42	-5,266.7	258.5	955.2	848.0	107.26	8.905		
14,300.0	8,940.0	15,134.1	9,840.0	95.1	95.6	160.42	-5,366.7	259.1	955.2	846.3	108.97	8.766		
14,400.0	8,940.0	15,234.1	9,840.0	96.7	97.2	160.42	-5,466.7	259.7	955.2	844.6	110.67	8.631		
14,500.0	8,940.0	15,334.1	9,840.0	98.2	98.7	160.42	-5,566.7	260.3	955.2	842.8	112.38	8.500		
14,600.0	8,940.0	15,434.1	9,840.0	99.8	100.3	160.42	-5,666.7	260.8	955.2	841.1	114.10	8.372		
14,700.0	8,940.0	15,534.1	9,840.0	101.4	101.8	160.42	-5,766.7	261.4	955.2	839.4	115.82	8.248		
14,800.0	8,940.0	15,634.1	9,840.0	102.9	103.4	160.42	-5,866.7	262.0	955.2	837.7	117.54	8.127		
14,900.0	8,940.0	15,734.1	9,840.0	104.5	105.0	160.42	-5,966.7	262.6	955.2	836.0	119.26	8.009		
15,000.0	8,940.0	15,834.1	9,840.0	106.1	106.5	160.42	-6,066.7	263.2	955.2	834.2	120.99	7.895		
15,100.0	8,940.0	15,934.1	9,840.0	107.7	108.1	160.42	-6,166.7	263.7	955.2	832.5	122.72	7.784		
15,200.0 15,300.0	8,940.0	16,034.1	9,840.0	109.3 110.8	109.7	160.42 160.42	-6,266.7	264.3	955.2 955.2	830.8	124.46 126.19	7.675		
	8,940.0	16,134.1	9,840.0		111.2		-6,366.7	264.9		829.0		7.569		
15,400.0	8,940.0	16,234.1	9,840.0	112.4	112.8	160.42	-6,466.7	265.5	955.2	827.3	127.93	7.466		

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RESOURCES

Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset De	sign	Pakse F	Pad - S24	T20S R32E	- Pakse	4 South Fe	d Com 223H -	OWB - Plar	n 1				Offset Site Error:	0.0 usft
Survey Prog	ram: 0-M												Offset Well Error:	0.0 usft
Refer	ence	Offs	et	Semi Major	Axis				Dista	nce				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
15,500.0	8,940.0	16,334.1	9,840.0	114.0	114.4	160.42	-6,566.7	266.0	955.2	825.5	129.68	7.366		
15,600.0	8,940.0	16,434.1	9,840.0	115.6	116.0	160.42	-6,666.7	266.6	955.2	823.8	131.42	7.268		
15,700.0	8,940.0	16,534.1	9,840.0	117.2	117.6	160.42	-6,766.7	267.2	955.2	822.0	133.17	7.173		
15,800.0	8,940.0	16,634.1	9,840.0	118.8	119.1	160.42	-6,866.7	267.8	955.2	820.3	134.92	7.080		
15,900.0	8,940.0	16,734.1	9,840.0	120.4	120.7	160.43	-6,966.7	268.4	955.2	818.5	136.67	6.989		
16,000.0	8,940.0	16,834.1	9,840.0	122.0	122.3	160.43	-7,066.7	268.9	955.2	816.8	138.42	6.901		
16,100.0	8,940.0	16,934.1	9,840.0	123.6	123.9	160.43	-7,166.7	269.5	955.2	815.0	140.18	6.814		
16,200.0	8,940.0	17,034.1	9,840.0	125.2	125.5	160.43	-7,266.7	270.1	955.2	813.3	141.94	6.730		
16,300.0	8,940.0	17,134.1	9,840.0	126.8	127.1	160.43	-7,366.7	270.7	955.2	811.5	143.70	6.647		
16,400.0	8,940.0	17,234.1	9,840.0	128.4	128.7	160.43	-7,466.7	271.2	955.2	809.7	145.46	6.567		
16,500.0	8,940.0	17,334.1	9,840.0	130.0	130.3	160.43	-7,566.7	271.8	955.2	808.0	147.23	6.488		
16,587.4	8,940.0	17,421.5	9,840.0	131.4	131.7	160.43	-7,654.1	272.3	955.2	806.4	148.77	6.421		



Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

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vey Prog	ram: 0-M	WD											Offset Well Error:	0.0
Refer		Offse	ət	Semi Major	Axis				Dista	nce				
asured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
epth usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.6	-120.0	120.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.31	-0.6	-120.0	120.0	119.7	0.26	458.574		
200.0	200.0	200.0	200.0	0.5	0.5	-90.31	-0.6	-120.0	120.0	119.0	0.98	122.622		
300.0	300.0	300.0	300.0	0.8	0.8	-90.31	-0.6	-120.0	120.0	118.3	1.70	70.774		
400.0	400.0	400.0	400.0	1.2	1.2	-90.31	-0.6	-120.0	120.0	117.6	2.41	49.741		
500.0	500.0	500.0	500.0	1.6	1.6	-90.31	-0.6	-120.0	120.0	116.9	3.13	38.346		
600.0	600.0	600.0	600.0	1.9	1.9	-90.31	-0.6	-120.0	120.0	116.2	3.85	31.198		
700.0	700.0	700.0	700.0	2.3	2.3	-90.31	-0.6	-120.0	120.0	115.4	4.56	26.297		
800.0	800.0	800.0	800.0	2.6	2.6	-90.31	-0.6	-120.0	120.0	114.7	5.28	22.726		
900.0	900.0	900.0	900.0	3.0	3.0	-90.31	-0.6	-120.0	120.0	114.0	6.00	20.010		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.31	-0.6	-120.0	120.0	113.3	6.71	17.873 (CC, ES	
1,100.0	1,100.0	1,096.6	1,096.5	3.7	3.7	-163.22	0.3	-121.3	123.1	115.7	7.41	16.614		
1,200.0	1,199.8	1,192.6	1,192.4	4.1	4.0	-162.62	3.0	-125.4	132.2	124.2	8.09	16.348		
1,300.0	1,299.5	1,287.5	1,287.0	4.4	4.4	-161.76	7.4	-131.9	147.5	138.7	8.77	16.829		
1,400.0 1,500.0	1,398.8 1,498.0	1,382.5 1,480.0	1,381.4 1,478.2	4.8 5.1	4.7 5.1	-160.86 -160.11	13.5 20.2	-141.0 -150.8	168.2 190.0	158.8 179.9	9.44 10.14	17.815 18.740		
1,600.0	1,597.3	1,577.6	1,575.1	5.5	5.5	-159.52	26.9	-160.7	211.8	200.9	10.84	19.544		
1,700.0	1,696.5	1,675.2	1,671.9	5.9	5.8	-159.04	33.5	-170.5	233.6	222.0	11.54	20.240		
1,800.0	1,795.8	1,772.8	1,768.8	6.3	6.2	-158.64	40.2	-180.4	255.4	243.1	12.25	20.853		
1,900.0 2,000.0	1,895.0 1,994.3	1,870.4 1,967.9	1,865.6 1,962.5	6.7 7.1	6.6 7.0	-158.30 -158.01	46.9 53.5	-190.3 -200.1	277.2 299.0	264.2 285.4	12.96 13.67	21.395 21.878		
2,100.0	2,093.5	2,065.5	2,059.3	7.5	7.3	-157.77	60.2	-210.0	320.9	306.5	14.38	22.310		
2,200.0	2,192.8	2,163.1	2,156.2	7.8	7.7	-157.55	66.8	-219.8	342.7	327.6	15.10	22.699		
2,300.0 2,400.0	2,292.1 2,391.3	2,260.7 2,358.2	2,253.0 2,349.9	8.2 8.6	8.1 8.5	-157.36 -157.19	73.5 80.2	-229.7 -239.5	364.6 386.4	348.7 369.9	15.82 16.53	23.050 23.370		
2,400.0	2,391.3	2,358.2	2,349.9	9.0	8.9	-157.04	86.8	-239.3	408.3	309.9 391.0	17.25	23.661		
2,600.0	2,589.8	2,553.4	2,543.6	9.4	9.3	-156.90	93.5	-259.2	430.1	412.1	17.98	23.928		
2,700.0	2,689.1	2,651.0	2,640.4	9.8	9.6	-156.78	100.2	-269.1	452.0	433.3	18.70	24.173		
2,800.0	2,788.3	2,748.6	2,737.3	10.2	10.0	-156.67	106.8	-279.0	473.8	454.4	19.42	24.399		
2,900.0	2,887.6	2,846.1	2,834.1	10.6	10.4	-156.57	113.5	-288.8	495.7	475.5	20.14	24.608		
3,000.0	2,986.8	2,943.7	2,931.0	11.0	10.8	-156.47	120.1	-298.7	517.5	496.7	20.87	24.802		
3,100.0	3,086.1	3,041.3	3,027.8	11.4	11.2	-156.39	126.8	-308.5	539.4	517.8	21.59	24.982		
3,200.0	3,185.3	3,138.9	3,124.7	11.8	11.6	-156.31	133.5	-318.4	561.3	539.0	22.32	25.149		
3,300.0	3,284.6	3,236.4	3,221.5	12.2	12.0	-156.24	140.1	-328.2	583.1	560.1	23.04	25.306		
3,400.0	3,383.9	3,334.0	3,318.4	12.6	12.4	-156.17	146.8	-338.1	605.0	581.2	23.77	25.453		
3,500.0	3,483.1	3,431.6	3,415.2	13.0	12.8	-156.10	153.5	-348.0	626.9	602.4	24.50	25.590		
3,600.0	3,582.4	3,529.2	3,512.1	13.4	13.2	-156.05	160.1	-357.8	648.7	623.5	25.22	25.720		
3,700.0	3,681.6	3,626.8	3,608.9	13.8	13.6	-155.99	166.8	-367.7	670.6	644.7	25.95	25.841		
3,800.0	3,780.9	3,724.3	3,705.8	14.2	13.9	-155.94	173.4	-377.5	692.5	665.8	26.68	25.956		
3,900.0	3,880.1	3,821.9	3,802.6	14.6	14.3	-155.89	180.1	-387.4	714.3	686.9	27.41	26.065		
4,000.0	3,979.4	3,919.5	3,899.5	15.0	14.7	-155.85	186.8	-397.2	736.2	708.1	28.13	26.167		
4,100.0	4,078.6	4,017.1	3,996.3	15.4	15.1	-155.80	193.4	-407.1	758.1	729.2	28.86	26.264		
4,200.0	4,177.9	4,121.2	4,099.7	15.8	15.5	-155.76	200.5	-417.5	779.9	750.2	29.64	26.312		
4,300.0	4,277.2	4,251.4	4,229.3	16.2	16.0	-155.85	207.0	-427.2	798.9	768.4	30.57	26.137		
4,400.0	4,376.4	4,383.2	4,361.0	16.7	16.5	-156.13	210.3	-432.0	814.0	782.5	31.45	25.881		
4,500.0	4,475.7	4,497.9	4,475.7	17.1	16.9	-156.51	210.7	-432.6	825.6	793.4	32.22	25.622		
4,600.0	4,574.9	4,597.1	4,574.9	17.5	17.2	-156.84	210.7	-432.6	836.8	803.9	32.93	25.409		
4,700.0	4,674.2	4,696.4	4,674.2	17.9	17.6	-157.16	210.7	-432.6	848.0	814.4	33.64	25.205		
4,800.0	4,773.4	4,795.6	4,773.4	18.3	17.9	-157.48	210.7	-432.6	859.3	824.9	34.36	25.010		
4,900.0 5,000.0	4,872.7 4,971.9	4,894.9 4,994.2	4,872.7 4,971.9	18.7 19.1	18.2 18.6	-157.78 -158.08	210.7 210.7	-432.6 -432.6	870.6 881.9	835.5 846.1	35.07 35.78	24.824 24.646		
5,100.0	5,071.2	5,093.4	5,071.2	19.5	18.9	-158.37	210.7	-432.6	893.2	856.7	36.49	24.475		

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Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Offset Des	sign	Pakse F	ad - S24	T20S R32E	- Pakse	4 South Fe	d Com 303H -	OWB - Plar	n 1				Offset Site Error:	0.0 usft
Survey Progr Refere		ND Offse		Semi Major	Avia				Dista				Offset Well Error:	0.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbor	e Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Wannig	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,200.0	5,170.4	5,192.7	5,170.4	19.9	19.2	-158.66	210.7	-432.6	904.5	867.3	37.21	24.311		
5,300.0	5,269.7	5,291.9	5,269.7	20.3	19.6	-158.93	210.7	-432.6	915.9	878.0	37.92	24.153		
5,400.0	5,369.0	5,391.2	5,369.0	20.7	19.9	-159.20	210.7	-432.6	927.3	888.7	38.63	24.002		
5,500.0	5,468.2	5,490.4	5,468.2	21.1	20.2	-159.47	210.7	-432.6	938.7	899.4	39.35	23.857		
5,600.0	5,567.5	5,589.7	5,567.5	21.5	20.6	-159.73	210.7	-432.6	950.1	910.1	40.06	23.717		
5,700.0	5,666.7	5,688.9	5,666.7	21.9	20.9	-159.98	210.7	-432.6	961.6	920.8	40.78	23.582		
5,800.0	5,766.2	5,788.4	5,766.2	22.3	21.2	-160.25	210.7	-432.6	971.2	929.7	41.49	23.410		
5,900.0	5,866.0	5,888.2	5,866.0	22.7	21.6	-160.43	210.7	-432.6	977.6	935.4	42.19	23.169		
6,000.0	5,965.9	5,988.1	5,965.9	23.0	21.9	-160.52	210.7	-432.6	980.7	937.8	42.90	22.862		
6,100.0	6,065.9	6,088.1	6,065.9	23.3	22.3	-87.38	210.7	-432.6	981.0	937.4	43.58	22.508		
6,200.0	6,165.9	6,188.1	6,165.9	23.7	22.6	-87.38	210.7	-432.6	981.0	936.7	44.27	22.158		
6,300.0	6,265.9	6,288.1	6,265.9	24.0	23.0	-87.38	210.7	-432.6	981.0	936.0	44.96	21.817		
6,400.0	6,365.9	6,388.1	6,365.9	24.3	23.3	-87.38	210.7	-432.6	981.0	935.4	45.66	21.487		
6,500.0	6,465.9	6,488.1	6,465.9	24.6	23.6	-87.38	210.7	-432.6	981.0	934.7	46.35	21.166		
6,600.0	6,565.9	6,588.1	6,565.9	25.0	24.0	-87.38	210.7	-432.6	981.0	934.0	47.04	20.854		
6,700.0	6,665.9	6,688.1	6,665.9	25.3	24.3	-87.38	210.7	-432.6	981.0	933.3	47.73	20.551		
6,800.0	6,765.9	6,788.1	6,765.9	25.6	24.7	-87.38	210.7	-432.6	981.0	932.6	48.43	20.257		
6,900.0	6,865.9	6,888.1	6,865.9	26.0	25.0	-87.38	210.7	-432.6	981.0	931.9	49.12	19.970		
7,000.0	6,965.9	6,988.1	6,965.9	26.3	25.4	-87.38	210.7	-432.6	981.0	931.2	49.82	19.691		
7,100.0	7,065.9	7,088.1	7,065.9	26.6	25.7	-87.38	210.7	-432.6	981.0	930.5	50.52	19.420		
7,200.0	7,165.9	7,188.1	7,165.9	26.9	26.1	-87.38	210.7	-432.6	981.0	929.8	51.21	19.156		
7,300.0	7,265.9	7,288.1	7,265.9	27.3	26.4	-87.38	210.7	-432.6	981.0	929.1	51.91	18.898		
7,400.0	7,365.9	7,388.1	7,365.9	27.6	26.8	-87.38	210.7	-432.6	981.0	928.4	52.61	18.648		
7,500.0	7,465.9	7,488.1	7,465.9	27.9	27.1	-87.38	210.7	-432.6	981.0	927.7	53.31	18.403		
7,600.0	7,565.9	7,588.1	7,565.9	28.3	27.5	-87.38	210.7	-432.6	981.0	927.0	54.00	18.165		
7,700.0	7,665.9	7,688.1	7,665.9	28.6	27.8	-87.38	210.7	-432.6	981.0	926.3	54.70	17.933		
7,800.0	7,765.9	7,788.1	7,765.9	29.0	28.2	-87.38	210.7	-432.6	981.0	925.6	55.40	17.707		
7,900.0	7,865.9	7,888.1	7,865.9	29.3	28.5	-87.38	210.7	-432.6	981.0	924.9	56.10	17.486		
8,000.0	7,965.9	7,988.1	7,965.9	29.6	28.9	-87.38	210.7	-432.6	981.0	924.2	56.80	17.270		
8,100.0	8,065.9	8,088.1	8,065.9	30.0	29.2	-87.38	210.7	-432.6	981.0	923.5	57.51	17.060		
8,200.0	8,165.9	8,188.1	8,165.9	30.3	29.6	-87.38	210.7	-432.6	981.0	922.8	58.21	16.854		
8 200 0	0.065.0	0.000.4	9 265 0	20.0	20.0	97.90	210 7	499.0	094.0	020.4	50.04	16.650		
8,300.0	8,265.9	8,288.1	8,265.9	30.6	29.9	-87.38	210.7	-432.6	981.0	922.1	58.91	16.653		
8,400.0 8,409.9	8,365.9 8,375.8	8,388.1 8,398.1	8,365.9 8,375.8	31.0 31.0	30.3 30.3	-87.38 92.94	210.7 210.7	-432.6 -432.6	981.0 981.0	921.4 921.3	59.61 59.68	16.457 16.437		
8,409.9 8,500.0	8,375.8 8,465.9	8,398.1 8,488.1	8,375.8 8,465.9	31.0	30.3 30.6	92.94 92.94	210.7 210.7	-432.6 -432.6	981.0 981.0	921.3 920.7	59.68 60.32	16.437		
8,500.0	8,565.1	8,587.3	8,465.9 8,565.1	31.5	30.6	92.94 93.51	210.7	-432.6	981.0	920.7	61.00	16.265		
0,000.0	0,000.1	0,007.0	0,000.1	51.0	51.0	93.01	210.7	-402.0	501.0	920.0	01.00	10.093		
8,700.0	8,659.8	8,682.0	8,659.8	31.9	31.3	94.94	210.7	-432.6	984.1	922.5	61.64	15.967		
8,800.0	8,745.9	8,768.1	8,745.9	32.1	31.6	96.73	210.7	-432.6	990.2	928.0	62.18	15.925 \$	SF	



Anticollision Report



Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Project.		TVD Reference.	Ĵ, ĵ,
Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

offset De urvey Prog Refer	ram: 0-M			Semi Major			I Com 433H -		Dista	ince			Offset Well Error:	0.0
easured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor +N/-S	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.31	-0.2	-30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	-90.31	-0.2	-30.0	30.0	29.7	0.26	114.643		
200.0	200.0	200.0	200.0	0.5	0.5	-90.31	-0.2	-30.0	30.0	29.0	0.98	30.656		
300.0	300.0	300.0	300.0	0.8	0.8	-90.31	-0.2	-30.0	30.0	28.3	1.70	17.693		
400.0	400.0	400.0	400.0	1.2	1.2	-90.31	-0.2	-30.0	30.0	27.6	2.41	12.435		
500.0	500.0	500.0	500.0	1.6	1.6	-90.31	-0.2	-30.0	30.0	26.9	3.13	9.586		
600.0	600.0	600.0	600.0	1.9	1.9	-90.31	-0.2	-30.0	30.0	26.2	3.85	7.800		
700.0	700.0	700.0	700.0	2.3	2.3	-90.31	-0.2	-30.0	30.0	25.4	4.56	6.574		
800.0	800.0	800.0	800.0	2.6	2.6	-90.31	-0.2	-30.0	30.0	24.7	5.28	5.682		
900.0	900.0	900.0	900.0	3.0	3.0	-90.31	-0.2	-30.0	30.0	24.0	6.00	5.002		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.31	-0.2	-30.0	30.0	23.3	6.71	4.468 C	C, ES	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-164.34	-0.2	-30.0	31.7	24.3	7.42	4.266 \$	F	
1,200.0	1,100.0	1,100.0	1,100.0	4.1	4.1	-166.52	-0.2	-30.0	36.7	24.3	8.13	4.200 3	F	
1,200.0	1,199.8	1,199.8	1,199.8	4.1	4.1	-166.52	-0.2	-30.0	43.8	20.0 35.0	8.84	4.518		
1,300.0	1,299.5	1,300.7	1,300.7	4.4 4.8	4.4 4.8	-167.80	4.4	-20.0	43.8 51.0	41.5	0.04 9.54	4.959 5.349		
1,400.0	1,396.6	1,401.8	1,401.7	4.0 5.1	4.0 5.2	-167.16	4.4	-24.5	55.8	41.5	9.54	5.349		
.,200.0	.,	.,000.2	.,	0.1	0.2				00.0	.0.0		0.101		
1,600.0	1,597.3	1,603.8	1,602.5	5.5	5.5	-160.58	17.7	-8.6	58.4	47.5	10.95	5.339		
1,700.0	1,696.5	1,703.7	1,701.7	5.9	5.9	-156.68	25.5	0.8	61.1	49.4	11.67	5.231		
1,800.0	1,795.8	1,803.6	1,800.8	6.3	6.3	-153.11	33.3	10.2	63.9	51.5	12.41	5.154		
1,900.0	1,895.0	1,903.5	1,900.0	6.7	6.6	-149.86	41.1	19.5	67.1	53.9	13.15	5.100		
2,000.0	1,994.3	2,003.3	1,999.1	7.1	7.0	-146.91	48.9	28.9	70.4	56.5	13.90	5.063		
0 400 0	0 000 5	0 400 0					50.7		70.0	50.0	44.05	5 0 10		
2,100.0	2,093.5	2,103.2	2,098.2	7.5	7.4	-144.22	56.7	38.2	73.8	59.2	14.65	5.040		
2,200.0	2,192.8	2,203.1	2,197.4	7.8	7.8	-141.79	64.4	47.6	77.5	62.0	15.41	5.027		
2,300.0	2,292.1	2,303.0	2,296.5	8.2	8.2	-139.57	72.2	56.9	81.2	65.0	16.17	5.022		
2,400.0 2,500.0	2,391.3 2,490.6	2,402.9 2,502.8	2,395.6 2,494.8	8.6 9.0	8.6 9.0	-137.56 -135.71	80.0 87.8	66.3 75.6	85.1 89.0	68.1 71.3	16.93 17.70	5.023 5.029		
2,500.0	2,490.0	2,302.0	2,494.0	9.0	9.0	-135.71	07.0	75.0	09.0	71.5	17.70	5.029		
2,600.0	2,589.8	2,602.6	2,593.9	9.4	9.3	-134.03	95.6	85.0	93.1	74.6	18.47	5.038		
2,700.0	2,689.1	2,702.5	2,693.1	9.8	9.7	-132.49	103.4	94.3	97.2	77.9	19.25	5.049		
2,800.0	2,788.3	2,802.4	2,792.2	10.2	10.1	-131.08	111.2	103.7	101.3	81.3	20.02	5.062		
2,900.0	2,887.6	2,902.3	2,891.3	10.6	10.5	-129.77	119.0	113.0	105.6	84.8	20.80	5.077		
3,000.0	2,986.8	3,002.2	2,990.5	11.0	10.9	-128.57	126.8	122.4	109.9	88.3	21.58	5.092		
	0 000 4	o 400 4				107.10	101.0					5 400		
3,100.0	3,086.1	3,102.1	3,089.6	11.4	11.3	-127.46	134.6	131.7	114.2	91.8	22.36	5.108		
3,200.0	3,185.3	3,201.9	3,188.8	11.8	11.7	-126.43	142.3	141.1	118.6	95.4	23.14	5.125		
3,300.0	3,284.6	3,301.8	3,287.9	12.2	12.1	-125.48	150.1	150.4	123.0	99.1	23.92	5.141		
3,400.0	3,383.9	3,401.7	3,387.0	12.6	12.5	-124.59	157.9	159.8	127.4	102.7	24.70	5.158		
3,500.0	3,483.1	3,501.6	3,486.2	13.0	12.9	-123.76	165.7	169.1	131.9	106.4	25.48	5.175		
3,600.0	3,582.4	3,601.5	3,585.3	13.4	13.3	-122.98	173.5	178.5	136.4	110.1	26.27	5.191		
3,700.0	3,681.6	3,701.3	3,684.4	13.8	13.7	-122.26	181.3	187.8	140.9	113.8	27.05	5.208		
3,800.0	3,780.9	3,801.2	3,783.6	14.2	14.1	-121.57	189.1	197.2	145.4	117.6	27.84	5.224		
3,900.0	3,880.1	3,901.1	3,882.7	14.6	14.5	-120.94	196.9	206.6	150.0	121.3	28.62	5.239		
4,000.0	3,979.4	4,000.6	3,981.5	15.0	14.9	-120.51	204.3	215.5	154.6	125.2	29.40	5.258		
4,100.0	4,078.6	4,100.0	4,080.5	15.4	15.3	-121.20	209.8	222.1	159.7	129.5	30.16	5.295		
4,200.0	4,177.9	4,198.5	4,178.9	15.8	15.6	-123.00	213.1	226.1	165.3	134.5	30.87	5.355		
4,300.0	4,277.2	4,296.8	4,277.2	16.2	16.0	-125.79	214.2	227.4	171.9	140.3	31.63	5.434		
4,400.0	4,376.4	4,396.0	4,376.4	16.7	16.3	-128.93	214.2	227.4	179.3	146.9	32.39	5.536		
4,500.0	4,475.7	4,495.3	4,475.7	17.1	16.6	-131.82	214.2	227.4	187.2	154.2	33.04	5.668		
4,600.0	4,574.9	4,594.5	4,574.9	17.5	17.0	-134.47	214.2	227.4	195.6	161.9	33.68	5.807		
4,700.0	4,674.2	4,693.8	4,674.2	17.9	17.3	-136.90	214.2	227.4	204.4	170.0	34.33	5.953		
4,800.0	4,773.4	4,793.0	4,773.4	18.3	17.6	-139.13	214.2	227.4	213.5	178.5	34.99	6.101		
4,900.0	4,872.7	4,892.3	4,872.7	18.7	18.0	-141.18	214.2	227.4	222.8	187.2	35.64	6.252		
5,000.0	4,971.9	4,991.6	4,971.9	19.1	18.3	-143.05	214.2	227.4	232.5	196.2	36.30	6.404		
5,100.0	5,071.2	5,090.8	5,071.2	19.5	18.7	-144.78	214.2	227.4	242.4	205.4	36.97	6.556		

2/9/2024 2:49:12PM

COMPASS 5000.15 Build 88



Anticollision Report



company: P	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
roject: Lo	ea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
Reference Site: P	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
ite Error: 0.	0.0 usft	North Reference:	Grid
Reference Well: P	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Vell Error: 0.	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore O	DWB	Database:	EDM 5000.15 Single User Db
Reference Design: P	Plan 1	Offset TVD Reference:	Offset Datum

Offset De	•									Offset Site Error:	0.0 usft			
Survey Prog													Offset Well Error:	0.0 usft
Refer Measured	ence Vertical	Offs Measured	et Vertical	Semi Major Reference	Axis Offset	Highside	Offset Wellbor	e Centre	Dista Between	nce Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	warning	
						-146.37	214.2					6 707		
5,200.0 5,300.0	5,170.4 5,269.7	5,190.1 5,289.3	5,170.4 5,269.7	19.9 20.3	19.0 19.3	-146.37 -147.84	214.2	227.4 227.4	252.4 262.7	214.8 224.4	37.64 38.31	6.707 6.857		
5,300.0	5,269.7	5,269.5	5,269.7	20.3	19.3	-147.84	214.2	227.4	202.7	224.4	38.98	7.006		
5,500.0	5,468.2	5,487.8	5,468.2	20.7	20.0	-149.20	214.2	227.4	283.7	234.1	39.66	7.000		
5,600.0	5,567.5	5,587.1	5,567.5	21.1	20.0	-151.62	214.2	227.4	203.7	244.0	40.34	7.132		
5,800.0	5,666.7	5,686.3	5,666.7	21.5	20.4	-151.62	214.2	227.4	294.3 305.1	254.0 264.1	40.34	7.290		
5,700.0	5,000.7	5,000.5	5,000.7	21.9	20.7	-152.72	214.2	221.4	305.1	204.1	41.05	1.431		
5,800.0	5,766.2	5,785.8	5,766.2	22.3	21.0	-153.65	214.2	227.4	314.3	272.6	41.72	7.534		
5,900.0	5,866.0	5,885.6	5,866.0	22.7	21.4	-154.24	214.2	227.4	320.4	278.0	42.41	7.554		
6,000.0	5,965.9	5,985.5	5,965.9	23.0	21.7	-154.52	214.2	227.4	323.3	280.2	43.10	7.502		
6,100.0	6,065.9	6,085.5	6,065.9	23.3	22.1	-81.41	214.2	227.4	323.6	279.9	43.78	7.393		
6,200.0	6,165.9	6,185.5	6,165.9	23.7	22.4	-81.41	214.2	227.4	323.6	279.2	44.47	7.278		
6,300.0	6,265.9	6,285.5	6,265.9	24.0	22.8	-81.41	214.2	227.4	323.6	278.5	45.15	7.167		
6,400.0	6,365.9	6,385.5	6,365.9	24.0	22.0	-81.41	214.2	227.4	323.0	278.5	45.13	7.059		
6,500.0	6,465.9	6,485.5	6,465.9	24.6	23.5	-81.41	214.2	227.4	323.6	277.1	46.54	6.954		
6,600.0 6,700.0	6,565.9 6,665.9	6,585.5 6,685.5	6,565.9 6,665.9	25.0 25.3	23.8 24.2	-81.41 -81.41	214.2 214.2	227.4 227.4	323.6 323.6	276.4 275.7	47.23 47.92	6.853 6.754		
0,700.0	0,005.9	0,005.5	0,005.9	20.0	24.2	-01.41	214.2	227.4	323.0	215.1	47.82	0.754		
6,800.0	6,765.9	6,785.5	6,765.9	25.6	24.5	-81.41	214.2	227.4	323.6	275.0	48.61	6.657		
6,900.0	6,865.9	6,885.5	6,865.9	26.0	24.9	-81.41	214.2	227.4	323.6	274.3	49.31	6.564		
7,000.0	6,965.9	6,985.5	6,965.9	26.3	25.2	-81.41	214.2	227.4	323.6	273.6	50.00	6.472		
7,100.0	7,065.9	7,085.5	7,065.9	26.6	25.6	-81.41	214.2	227.4	323.6	272.9	50.70	6.384		
7,200.0	7,165.9	7,185.5	7,165.9	26.9	25.9	-81.41	214.2	227.4	323.6	272.2	51.39	6.297		
7,300.0	7,265.9	7,285.5	7,265.9	27.3	26.3	-81.41	214.2	227.4	323.6	271.5	52.09	6.213		
7,400.0	7,365.9	7,385.5	7,365.9	27.6	26.6	-81.41	214.2	227.4	323.6	270.8	52.78	6.131		
7,500.0	7,465.9	7,485.5	7,465.9	27.9	27.0	-81.41	214.2	227.4	323.6	270.1	53.48	6.051		
7,600.0	7,565.9	7,585.5	7,565.9	28.3	27.3	-81.41	214.2	227.4	323.6	269.5	54.18	5.973		
7,700.0	7,665.9	7,685.5	7,665.9	28.6	27.7	-81.41	214.2	227.4	323.6	268.8	54.88	5.897		
7,800.0	7,765.9	7,785.5	7,765.9	29.0	28.0	-81.41	214.2	227.4	323.6	268.1	55.58	5.823		
7,900.0	7,865.9	7,885.5	7,865.9	29.3	28.4	-81.41	214.2	227.4	323.6	267.4	56.28	5.751		
8,000.0	7,965.9	7,985.5	7,965.9	29.6	28.7	-81.41	214.2	227.4	323.6	266.7	56.98	5.680		
8,100.0	8,065.9	8,085.5	8,065.9	30.0	29.1	-81.41	214.2	227.4	323.6	266.0	57.68	5.611		
8,200.0	8,165.9	8,185.5	8,165.9	30.3	29.4	-81.41	214.2	227.4	323.6	265.3	58.38	5.544		
8,300.0	8,265.9	8,285.5	8,265.9	30.6	29.8	-81.41	214.2	227.4	323.6	264.6	59.08	5.478		
8,400.0	8,365.9	8,385.5	8,365.9	31.0	30.1	-81.41	214.2	227.4	323.6	263.9	59.78	5.414		
8,409.9	8,375.8	8,395.5	8,375.8	31.0	30.2	98.92	214.2	227.4	323.6	263.8	59.87	5.406		
8,500.0	8,465.9	8,485.5	8,465.9	31.3	30.5	98.92	214.2	227.4	323.6	263.1	60.50	5.350		
8,600.0	8,565.1	8,584.7	8,565.1	31.6	30.8	100.61	214.2	227.4	325.5	264.3	61.23	5.317		
8,700.0	8,659.8	8,679.4	8,659.8	31.9	31.2	104.81	214.2	227.4	332.9	271.0	61.96	5.373		
8,700.0	8,745.9	8,765.5	8,745.9	31.9	31.2	104.81	214.2	227.4	350.4	271.0	62.65	5.593		
8,900.0	8,819.6	8,839.2	8,819.6	32.3	31.7	113.63	214.2 214.2	227.4	382.9 432.9	319.6	63.25	6.053		
9,000.0 9,100.0	8,877.7 8,917.6	8,897.3 8,937.2	8,877.7 8,917.6	32.4 32.5	31.9 32.1	114.27 109.92	214.2	227.4 227.4	432.9	369.2 435.1	63.72 64.02	6.794 7.797		
5,100.0	0,017.0	0,001.2	0,017.0	02.0	JZ. 1	100.02	217.2	221.4	400.2	400.1	04.02	1.101		
9,200.0	8,937.7	8,957.3	8,937.7	32.7	32.1	98.34	214.2	227.4	577.7	513.5	64.18	9.001		
9,300.0	8,940.0	8,959.6	8,940.0	33.0	32.1	90.00	214.2	227.4	663.2	599.0	64.23	10.326		
9,400.0	8,940.0	8,959.6	8,940.0	33.4	32.1	90.00	214.2	227.4	752.4	688.1	64.27	11.707		
9,500.0	8,940.0	8,959.6	8,940.0	33.8	32.1	90.00	214.2	227.4	843.9	779.6	64.32	13.122		
9,600.0	8,940.0	8,959.6	8,940.0	34.3	32.1	90.00	214.2	227.4	937.3	872.9	64.37	14.560		

PERMIAN

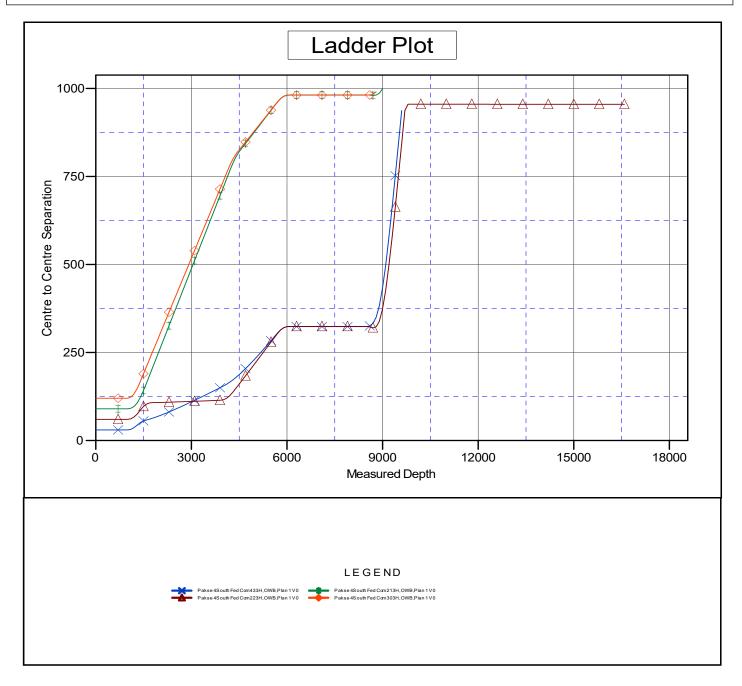
RESOURCES

Anticollision Report



- i				
	Company:	Permian Resources Operating, LLC	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
	Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3570.0usft (HP375)
	Reference Site:	Pakse Pad - S24 T20S R32E	MD Reference:	KB @ 3570.0usft (HP375)
	Site Error:	0.0 usft	North Reference:	Grid
	Reference Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
	Well Error:	0.0 usft	Output errors are at	2.00 sigma
	Reference Wellbore	OWB	Database:	EDM 5000.15 Single User Db
	Reference Design:	Plan 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3570.0usft (HP375) Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: Pakse 4 South Fed Com 114H Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: 0.33°



Anticollision Report

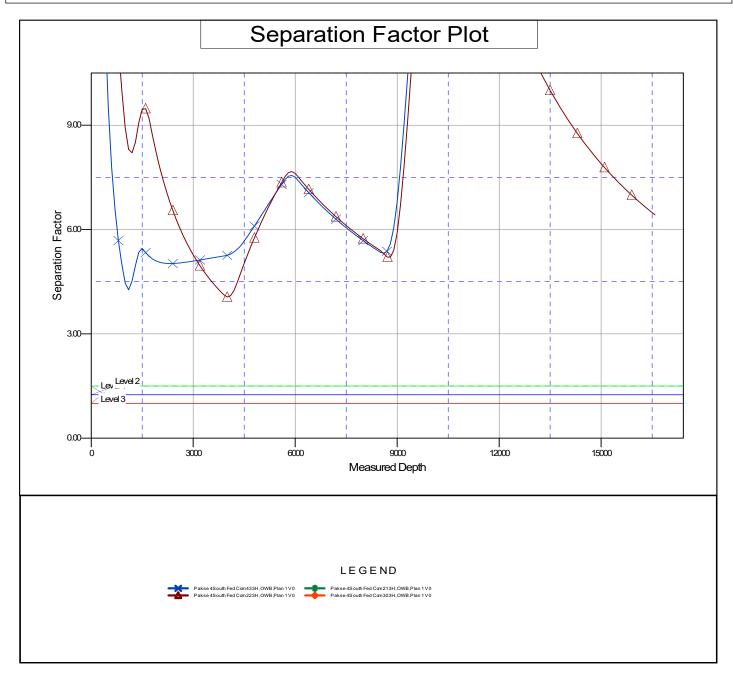


PERMIAN
RESOURCES

Company:	Permian Resources Operating, LLC
Project:	Lea County, NM (NAD 83 NME)
Reference Site:	Pakse Pad - S24 T20S R32E
Site Error:	0.0 usft
Reference Well:	Pakse 4 South Fed Com 114H
Well Error:	0.0 usft
Reference Wellbore	OWB
Reference Design:	Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Output errors are at Database: Offset TVD Reference: Well Pakse 4 South Fed Com 114H KB @ 3570.0usft (HP375) KB @ 3570.0usft (HP375) Grid Minimum Curvature 2.00 sigma EDM 5000.15 Single User Db Offset Datum

Reference Depths are relative to KB @ 3570.0usft (HP375) Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W Coordinates are relative to: Pakse 4 South Fed Com 114H Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: 0.33°





Permian Resources Operating, LLC

Lea County, NM (NAD 83 NME) Pakse Pad - S24 T20S R32E Pakse 4 South Fed Com 114H

OWB

Plan: Plan 1

Standard Planning Report - Geographic

09 February, 2024



Received by OCD: 3/5/2024 1:39:10 PM

PERMIAN

Planning Report - Geographic



RESOURCES	S			Fidilili	ng Report - (Geographic					
Database: Company: Project: Site: Well: Wellbore: Design:	Company: Permian Project: Lea Cou Site: Pakse P Vell: Pakse 4 Vellbore: OWB		User Db Operating, LLC D 83 NME) DS R32E Com 114H		TVD Refer MD Refere North Refe	ence:	+ + (Well Pakse 4 South Fed Com 114H KB @ 3570.0usft (HP375) KB @ 3570.0usft (HP375) Grid Minimum Curvature			
Project	Lea C	ounty, NM (NAI	0 83 NME)								
Map System: Geo Datum: Map Zone:	North A	US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone				System Datum: Mean Sea Level					
Site	Pakse	Pad - S24 T20	S R32E								
Site Position: From: Position Uncerta	Ma ainty:		Northin Eastin 0 usft Slot Ra	g:		,900.57 usft ,142.47 usft 13-3/16 "	Latitude: Longitude: Grid Converge	ence:		32° 33' 54.728 103° 43' 2.033 ' 0.33	
Well	Pakse	4 South Fed Co	om 114H								
Well Position Position Uncerta	+N/-S +E/-W		0.0 usft Eas	rthing: sting: Ilhead Elevati	ion:	569,900.57 731,142.47	usft Lon	tude: gitude: und Level:		32° 33' 54.728 103° 43' 2.033 ' 3,543.0 us	
Position oncerta	amty				юп.		GIO			3,545.0 us	
Wellbore	OWB										
Magnetics	м	odel Name	Sample	Date	Declina (°)	tion	Dip A (°)	-		trength T)	
		HDGM		5/9/2024		6.39		60.29	47,6	47.84776885	
Design	Plan 1										
Audit Notes:											
Version:			Phase	-	PLAN	Tie	On Depth:		0.0		
Vertical Section	:	ſ	Depth From (TV (usft)	D)	+N/-S (usft)	+E/ (us	/-W sft)		ection (°)		
			0.0		0.0	0.			9.67		
			0/0/0004								
DIAM ON TAX	-1 D										
Plan Survey Too Depth Fro	om Dep	th To	2/9/2024		Tool Name		Pomarks				
Depth Fro (usft)	om Dep (us	th To sft) Survey	(Wellbore)				Remarks				
Depth Fro	om Dep (us	th To	(Wellbore)		Tool Name MWD OWSG MWD	- Standard	Remarks				
Depth Fro (usft)	om Dep (us	th To sft) Survey	(Wellbore)		MWD	- Standard	Remarks				
Depth Fro (usft) 1	om Dep (us	th To sft) Survey	(Wellbore)	+N/-S (usft)	MWD	- Standard Dogleg Rate (°/100usft)	Remarks Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
Plan Sections Measured Depth (usft) 0.0	Inclination (°) 0.00	th To Sift) Survey 6,587.0 Plan 1 Azimuth (°) 0.00	(Wellbore) (OWB) Vertical Depth (usft) 0.0	(usft) 0.0	MWD OWSG MWD +E/-W (usft) 0.0	Dogleg Rate (°/100usft) 0.00	Build Rate (°/100usft) 0.00	Rate (°/100usft) 0.00	(°) 0.00	Target	
Plan Sections Measured Depth (usft) 0.0 1,000.0	Inclination (°) 0.00 0.00 0.00	th To sft) Survey 5,587.0 Plan 1 Azimuth (°) 0.00 0.00	(Wellbore) (OWB) Vertical Depth (usft) 0.0 1,000.0	(usft) 0.0 0.0	MWD OWSG MWD +E/-W (usft) 0.0 0.0	Dogleg Rate (°/100usft) 0.00 0.00	Build Rate (°/100usft) 0.00 0.00	Rate (°/100usft) 0.00 0.00	(°) 0.00 0.00	Target	
Plan Sections Measured Depth (usft) 0.0 1,000.0 1,349.9	Inclination (°) 0.00 0.00 0.00 0.00 7.00	th To sft) Survey 5,587.0 Plan 1 Azimuth (°) 0.00 0.00 73.14	(Wellbore) (OWB) Vertical Depth (usft) 0.0 1,000.0 1,349.0	(usft) 0.0 0.0 6.2	MWD OWSG MWD +E/-W (usft) 0.0 0.0 20.4	Dogleg Rate (°/100usft) 0.00 0.00 2.00	Build Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00 0.00	(°) 0.00 0.00 73.14	Target	
Depth Fro (usft) 1 Plan Sections Measured Depth (usft) 0.0 1,000.0 1,349.9 5,694.2	Inclination (°) 0.00 0.00 0.00 0.00 7.00 7.00 7.00	th To sft) Survey 3,587.0 Plan 1 Azimuth (°) 0.00 0.00 73.14 73.14	(Wellbore) (OWB) Vertical Depth (usft) 0.0 1,000.0 1,349.0 5,661.0	(usft) 0.0 0.0 6.2 159.7	MWD OWSG MWD +E/-W (usft) 0.0 0.0 20.4 527.0	Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00	Build Rate (°/100usft) 0.00 0.00 2.00 0.00	Rate (°/100usft) 0.00 0.00 0.00 0.00	(°) 0.00 0.00 73.14 0.00	Target	
Plan Sections Measured Depth (usft) 0.0 1,000.0 1,349.9	Inclination (°) 0.00 0.00 0.00 0.00 7.00	th To sft) Survey 5,587.0 Plan 1 Azimuth (°) 0.00 0.00 73.14	(Wellbore) (OWB) Vertical Depth (usft) 0.0 1,000.0 1,349.0	(usft) 0.0 0.0 6.2	MWD OWSG MWD +E/-W (usft) 0.0 0.0 20.4	Dogleg Rate (°/100usft) 0.00 0.00 2.00	Build Rate (°/100usft) 0.00 0.00 2.00	Rate (°/100usft) 0.00 0.00 0.00	(°) 0.00 0.00 73.14	Target	
Depth Fro (usft) 1 Plan Sections Measured Depth (usft) 0.0 1,000.0 1,349.9 5,694.2 6,044.1	Inclination (°) 0.00 0.00 0.00 0.00 7.00 7.00 0.00	th To sft) Survey 5,587.0 Plan 1 Azimuth (°) 0.00 0.00 73.14 73.14 0.00	(Wellbore) (OWB) Vertical Depth (usft) 0.0 1,000.0 1,349.0 5,661.0 6,010.0	(usft) 0.0 6.2 159.7 165.9	MWD OWSG MWD +E/-W (usft) 0.0 0.0 20.4 527.0 547.4	Dogleg Rate (*/100usft) 0.00 0.00 2.00 0.00 2.00 2.00	Build Rate (°/100usft) 0.00 0.00 2.00 0.00 -2.00	Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00	(°) 0.00 73.14 0.00 180.00	Target	

2/9/2024 12:10:51PM

Planning Report - Geographic



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Company:	Permian Resources Operating, LLC	TVD Reference:	KB @ 3570.0usft (HP375)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3570.0usft (HP375)
Site:	Pakse Pad - S24 T20S R32E	North Reference:	Grid
Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 1		

Planned	Survey
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00		0.0			E60 000 E7	724 142 47		_
0.0 100.0	0.00	0.00 0.00	0.0 100.0	0.0 0.0	0.0 0.0	569,900.57 569,900.57	731,142.47 731,142.47	32° 33' 54.728 N 32° 33' 54.728 N	103° 43' 2.033 W 103° 43' 2.033 W
200.0	0.00	0.00	200.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
300.0	0.00	0.00	300.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
400.0	0.00	0.00	400.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
500.0	0.00	0.00	500.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
600.0	0.00	0.00	600.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
700.0	0.00	0.00	700.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
800.0	0.00	0.00	800.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
900.0	0.00	0.00	900.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	569,900.57	731,142.47	32° 33' 54.728 N	103° 43' 2.033 W
Nudge 2	°/100 at 1000.	00 MD							
1,100.0	2.00	73.14	1,100.0	0.5	1.7	569,901.08	731,144.14	32° 33' 54.733 N	103° 43' 2.013 W
1,200.0	4.00	73.14	1,199.8	2.0	6.7	569,902.60	731,149.14	32° 33' 54.748 N	103° 43' 1.955 W
1,300.0	6.00	73.14	1,299.5	4.6	15.0	569,905.12	731,157.49	32° 33' 54.772 N	103° 43' 1.857 W
1,349.9	7.00	73.14	1,349.0	6.2	20.4	569,906.76	731,162.89	32° 33' 54.788 N	103° 43' 1.794 W
	nc at 1349.90								
1,400.0	7.00	73.14	1,398.8	8.0	26.3	569,908.53	731,168.73	32° 33' 54.805 N	103° 43' 1.725 W
1,500.0	7.00	73.14	1,498.0	11.5	37.9	569,912.07	731,180.39	32° 33' 54.840 N	103° 43' 1.589 W
1,600.0	7.00	73.14	1,597.3	15.0	49.6	569,915.60	731,192.05	32° 33' 54.874 N	103° 43' 1.452 W
1,700.0	7.00	73.14	1,696.5	18.6	61.2	569,919.13	731,203.71	32° 33' 54.908 N	103° 43' 1.316 W
1,800.0 1,900.0	7.00 7.00	73.14 73.14	1,795.8 1,895.0	22.1 25.6	72.9 84.6	569,922.67 569,926.20	731,215.37 731,227.03	32° 33' 54.943 N 32° 33' 54.977 N	103° 43' 1.179 W 103° 43' 1.043 W
2,000.0	7.00	73.14	1,895.0	25.0	96.2	569,920.20	731,238.69	32° 33' 55.011 N	103° 43' 1.043 W
2,000.0	7.00	73.14	2,093.5	32.7	107.9	569,933.27	731,250.35	32° 33' 55.046 N	103° 43' 0.770 W
2,200.0	7.00	73.14	2,000.0	36.2	119.5	569,936.80	731,262.02	32° 33' 55.080 N	103° 43' 0.633 W
2,300.0	7.00	73.14	2,292.1	39.8	131.2	569,940.34	731,273.68	32° 33' 55.114 N	103° 43' 0.497 W
2,400.0	7.00	73.14	2,391.3	43.3	142.9	569,943.87	731,285.34	32° 33' 55.148 N	103° 43' 0.360 W
2,500.0	7.00	73.14	2,490.6	46.8	154.5	569,947.41	731,297.00	32° 33' 55.183 N	103° 43' 0.224 W
2,600.0	7.00	73.14	2,589.8	50.4	166.2	569,950.94	731,308.66	32° 33' 55.217 N	103° 43' 0.087 W
2,700.0	7.00	73.14	2,689.1	53.9	177.9	569,954.47	731,320.32	32° 33' 55.251 N	103° 42' 59.951 W
2,800.0	7.00	73.14	2,788.3	57.4	189.5	569,958.01	731,331.98	32° 33' 55.286 N	103° 42' 59.814 W
2,900.0	7.00	73.14	2,887.6	61.0	201.2	569,961.54	731,343.64	32° 33' 55.320 N	103° 42' 59.678 W
3,000.0	7.00	73.14	2,986.8	64.5	212.8	569,965.07	731,355.30	32° 33' 55.354 N	103° 42' 59.541 W
3,100.0	7.00	73.14	3,086.1	68.0	224.5	569,968.61	731,366.96	32° 33' 55.389 N	103° 42' 59.405 W
3,200.0	7.00	73.14	3,185.3	71.6	236.2	569,972.14	731,378.62	32° 33' 55.423 N	103° 42' 59.268 W
3,300.0	7.00	73.14	3,284.6	75.1	247.8	569,975.68	731,390.28	32° 33' 55.457 N	103° 42' 59.132 W
3,400.0	7.00	73.14	3,383.9	78.6	259.5	569,979.21	731,401.94	32° 33' 55.491 N	103° 42' 58.996 W
3,500.0	7.00	73.14	3,483.1	82.2	271.1	569,982.74	731,413.60	32° 33' 55.526 N	103° 42' 58.859 W
3,600.0	7.00	73.14	3,582.4	85.7	282.8	569,986.28	731,425.26	32° 33' 55.560 N	103° 42' 58.723 W
3,700.0 3,800.0	7.00 7.00	73.14 73.14	3,681.6	89.2 92.8	294.5 306.1	569,989.81	731,436.92	32° 33' 55.594 N	103° 42' 58.586 W
3,800.0	7.00	73.14	3,780.9 3,880.1	92.0 96.3	306.1	569,993.34 569,996.88	731,448.58 731,460.24	32° 33' 55.629 N	103° 42' 58.450 W 103° 42' 58.313 W
4,000.0	7.00	73.14	3,979.4	90.3 99.8	317.8	570,000.41	731,400.24	32° 33' 55.663 N 32° 33' 55.697 N	103° 42' 58.177 W
4,000.0	7.00	73.14	3,979.4 4,078.6	103.4	329.4 341.1	570,003.95	731,483.56	32° 33' 55.732 N	103° 42' 58.040 W
4,200.0	7.00	73.14	4,177.9	106.9	352.8	570,007.48	731,495.22	32° 33' 55.766 N	103° 42' 57.904 W
4,300.0	7.00	73.14	4,277.2	110.4	364.4	570,011.01	731,506.88	32° 33' 55.800 N	103° 42' 57.767 W
4,400.0	7.00	73.14	4,376.4	114.0	376.1	570,014.55	731,518.54	32° 33' 55.834 N	103° 42' 57.631 W
4,500.0	7.00	73.14	4,475.7	117.5	387.7	570,018.08	731,530.20	32° 33' 55.869 N	103° 42' 57.494 W
4,600.0	7.00	73.14	4,574.9	121.0	399.4	570,021.62	731,541.86	32° 33' 55.903 N	103° 42' 57.358 W
4,700.0	7.00	73.14	4,674.2	124.6	411.1	570,025.15	731,553.52	32° 33' 55.937 N	103° 42' 57.221 W
4,800.0	7.00	73.14	4,773.4	128.1	422.7	570,028.68	731,565.18	32° 33' 55.972 N	103° 42' 57.085 W
4,900.0	7.00	73.14	4,872.7	131.6	434.4	570,032.22	731,576.84	32° 33' 56.006 N	103° 42' 56.948 W
5,000.0	7.00	73.14	4,971.9	135.2	446.0	570,035.75	731,588.51	32° 33' 56.040 N	103° 42' 56.812 W

2/9/2024 12:10:51PM

Planning Report - Geographic



Database: Company:	EDM 5000.15 Single User Db Permian Resources Operating, LLC	Local Co-ordinate Reference: TVD Reference:	Well Pakse 4 South Fed Com 114H KB @ 3570.0usft (HP375)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3570.0usft (HP375)
Site:	Pakse Pad - S24 T20S R32E	North Reference:	Grid
Well:	Pakse 4 South Fed Com 114H OWB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Plan 1		
Design:			

Planned	Survey
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
						. ,			-
5,100.0		73.14	5,071.2	138.7	457.7	570,039.28	731,600.17	32° 33' 56.074 N	103° 42' 56.675 W
5,200.0		73.14 73.14	5,170.4	142.2	469.4	570,042.82	731,611.83 731,623.49	32° 33' 56.109 N	103° 42' 56.539 W
5,300.0 5,400.0		73.14	5,269.7 5,369.0	145.8 149.3	481.0 492.7	570,046.35 570,049.89	731,635.15	32° 33' 56.143 N 32° 33' 56.177 N	103° 42' 56.402 W 103° 42' 56.266 W
5,500.0		73.14	5,468.2	149.3	492.7 504.3	570,053.42	731,646.81	32° 33' 56.212 N	103° 42' 56.129 W
5,600.0		73.14	5,567.5	156.4	516.0	570,056.95	731,658.47	32° 33' 56.246 N	103° 42' 55.993 W
5,694.2		73.14	5,661.0	159.7	527.0	570,060.28	731,669.45	32° 33' 56.278 N	103° 42' 55.864 W
	100 at 5694.20		-,			,	,		
5,700.0		73.14	5,666.7	159.9	527.7	570,060.49	731,670.12	32° 33' 56.280 N	103° 42' 55.856 W
5,800.0	4.88	73.14	5,766.2	162.9	537.5	570,063.46	731,679.93	32° 33' 56.309 N	103° 42' 55.741 W
5,900.0	2.88	73.14	5,866.0	164.8	543.9	570,065.42	731,686.41	32° 33' 56.328 N	103° 42' 55.666 W
6,000.0	0.88	73.14	5,965.9	165.8	547.1	570,066.37	731,689.55	32° 33' 56.337 N	103° 42' 55.629 W
6,044.1	0.00	0.00	6,010.0	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
Vertical	at 6044.10 MD								
6,100.0		0.00	6,065.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
6,200.0		0.00	6,165.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
6,300.0		0.00	6,265.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
6,400.0		0.00	6,365.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
6,500.0		0.00	6,465.9	165.9	547.4 547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W 103° 42' 55.625 W
6,600.0 6,700.0		0.00 0.00	6,565.9 6,665.9	165.9 165.9	547.4 547.4	570,066.47 570,066.47	731,689.88 731,689.88	32° 33' 56.338 N 32° 33' 56.338 N	103° 42' 55.625 W
6,800.0		0.00	6,765.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
6,900.0		0.00	6,865.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,000.0		0.00	6,965.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,100.0		0.00	7,065.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,200.0		0.00	7,165.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,300.0	0.00	0.00	7,265.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,400.0	0.00	0.00	7,365.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,500.0	0.00	0.00	7,465.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,600.0		0.00	7,565.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,700.0		0.00	7,665.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,800.0		0.00	7,765.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
7,900.0		0.00	7,865.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
8,000.0 8,100.0		0.00	7,965.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
8,200.0		0.00 0.00	8,065.9 8,165.9	165.9 165.9	547.4 547.4	570,066.47 570,066.47	731,689.88 731,689.88	32° 33' 56.338 N 32° 33' 56.338 N	103° 42' 55.625 W 103° 42' 55.625 W
8,300.0		0.00	8,265.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
8,400.0		0.00	8,365.9	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
8,496.6		0.00	8,462.5	165.9	547.4	570,066.47	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
KOP 12	/100 at 8496.6	0 MD							
8,500.0	0.41	179.67	8,465.9	165.9	547.4	570,066.46	731,689.88	32° 33' 56.338 N	103° 42' 55.625 W
8,525.0	3.41	179.67	8,490.9	165.1	547.4	570,065.63	731,689.88	32° 33' 56.330 N	103° 42' 55.625 W
8,550.0	6.41	179.67	8,515.8	162.9	547.4	570,063.49	731,689.89	32° 33' 56.309 N	103° 42' 55.625 W
8,575.0		179.67	8,540.5	159.5	547.4	570,060.05	731,689.91	32° 33' 56.275 N	103° 42' 55.625 W
8,600.0		179.67	8,565.1	154.7	547.5	570,055.32	731,689.94	32° 33' 56.228 N	103° 42' 55.625 W
8,625.0		179.67	8,589.4	148.7	547.5	570,049.31	731,689.97	32° 33' 56.169 N	103° 42' 55.625 W
8,650.0		179.67	8,613.3	141.5	547.6	570,042.04	731,690.02	32° 33' 56.097 N	103° 42' 55.625 W
8,675.0		179.67	8,636.8	133.0	547.6	570,033.53	731,690.07	32° 33' 56.012 N	103° 42' 55.625 W
8,700.0 8,725.0		179.67 179.67	8,659.8 8,682.3	123.2 112.3	547.7 547.7	570,023.80 570,012.88	731,690.12 731,690.18	32° 33' 55.916 N 32° 33' 55.808 N	103° 42' 55.625 W 103° 42' 55.625 W
8,725.0		179.67	8,704.2	112.3	547.8	570,000.80	731,690.18	32° 33' 55.688 N	103° 42' 55.625 W
8,775.0		179.67	8,725.4	87.0	547.9	569,987.59	731,690.33	32° 33' 55.558 N	103° 42' 55.625 W
8,800.0		179.67	8,745.9	72.7	547.9	569,973.28	731,690.41	32° 33' 55.416 N	103° 42' 55.625 W
8,825.0		179.67	8,765.6	57.4	548.0	569,957.92	731,690.50	32° 33' 55.264 N	103° 42' 55.625 W
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Planning Report - Geographic



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Company:	Permian Resources Operating, LLC	TVD Reference:	KB @ 3570.0usft (HP375)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3570.0usft (HP375)
Site:	Pakse Pad - S24 T20S R32E	North Reference:	Grid
Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,850.0		179.67	8,784.5	41.0	548.1	569,941.56	731,690.59	32° 33' 55.102 N	103° 42' 55.625 W
8,850.0		179.67	8,802.5	23.6	548.2	569,924.22	731,690.69	32° 33' 54.931 N	103° 42' 55.625 W
8,900.0		179.67	8,802.5 8,819.6	23.0 5.4	548.3	569,905.97	731,690.80	32° 33' 54.750 N	103° 42' 55.625 W
8,900.0		179.67	8,835.7	-13.7	548.4	569,886.84	731,690.91	32° 33' 54.561 N	103° 42' 55.625 W
8,950.0		179.67	8,850.8	-33.7	548.6	569,866.90	731,691.02	32° 33' 54.364 N	103° 42' 55.625 W
8,975.0		179.67	8,864.8	-54.4	548.7	569,846.20	731,691.14	32° 33' 54.159 N	103° 42' 55.625 W
9,000.0		179.67	8,877.7	-75.8	548.8	569,824.80	731,691.26	32° 33' 53.947 N	103° 42' 55.625 W
9,025.0		179.67	8,889.5	-97.8	548.9	569,802.75	731,691.39	32° 33' 53.729 N	103° 42' 55.625 W
9,050.0		179.67	8,900.1	-120.5	549.1	569,780.11	731,691.52	32° 33' 53.505 N	103° 42' 55.625 W
9,075.0		179.67	8,909.5	-143.6	549.2	569,756.95	731,691.65	32° 33' 53.276 N	103° 42' 55.625 W
9,100.0		179.67	8,917.6	-167.2	549.3	569,733.33	731,691.79	32° 33' 53.042 N	103° 42' 55.625 W
9,125.0		179.67	8,924.6	-191.3	549.5	569,709.31	731,691.93	32° 33' 52.804 N	103° 42' 55.625 W
9,150.0		179.67	8,930.2	-215.6	549.6	569,684.96	731,692.07	32° 33' 52.563 N	103° 42' 55.625 W
9,175.0		179.67	8,934.6	-240.2	549.7	569,660.35	731,692.21	32° 33' 52.320 N	103° 42' 55.625 W
9,200.0	84.41	179.67	8,937.7	-265.0	549.9	569,635.55	731,692.35	32° 33' 52.074 N	103° 42' 55.625 W
9,225.0	87.41	179.67	8,939.5	-290.0	550.0	569,610.61	731,692.50	32° 33' 51.828 N	103° 42' 55.625 W
9,246.6	90.00	179.67	8,940.0	-311.6	550.2	569,589.02	731,692.62	32° 33' 51.614 N	103° 42' 55.625 W
LP at 92	46.60 MD								
9,300.0	90.00	179.67	8,940.0	-365.0	550.5	569,535.62	731,692.93	32° 33' 51.085 N	103° 42' 55.625 W
9,400.0	90.00	179.67	8,940.0	-464.9	551.0	569,435.62	731,693.50	32° 33' 50.096 N	103° 42' 55.626 W
9,500.0	90.00	179.67	8,940.0	-564.9	551.6	569,335.63	731,694.08	32° 33' 49.106 N	103° 42' 55.626 W
9,600.0	90.00	179.67	8,940.0	-664.9	552.2	569,235.63	731,694.65	32° 33' 48.117 N	103° 42' 55.626 W
9,700.0	90.00	179.67	8,940.0	-764.9	552.8	569,135.63	731,695.22	32° 33' 47.127 N	103° 42' 55.626 W
9,800.0	90.00	179.67	8,940.0	-864.9	553.3	569,035.63	731,695.80	32° 33' 46.138 N	103° 42' 55.626 W
9,900.0	90.00	179.67	8,940.0	-964.9	553.9	568,935.63	731,696.37	32° 33' 45.148 N	103° 42' 55.626 W
10,000.0	90.00	179.67	8,940.0	-1,064.9	554.5	568,835.63	731,696.95	32° 33' 44.159 N	103° 42' 55.626 W
10,100.0	90.00	179.67	8,940.0	-1,164.9	555.1	568,735.64	731,697.52	32° 33' 43.169 N	103° 42' 55.626 W
10,200.0	90.00	179.67	8,940.0	-1,264.9	555.6	568,635.64	731,698.10	32° 33' 42.180 N	103° 42' 55.626 W
10,300.0	90.00	179.67	8,940.0	-1,364.9	556.2	568,535.64	731,698.67	32° 33' 41.190 N	103° 42' 55.626 W
10,400.0	90.00	179.67	8,940.0	-1,464.9	556.8	568,435.64	731,699.25	32° 33' 40.201 N	103° 42' 55.626 W
10,500.0		179.67	8,940.0	-1,564.9	557.4	568,335.64	731,699.82	32° 33' 39.211 N	103° 42' 55.626 W
10,600.0		179.67	8,940.0	-1,664.9	557.9	568,235.64	731,700.40	32° 33' 38.222 N	103° 42' 55.626 W
10,700.0		179.67	8,940.0	-1,764.9	558.5	568,135.65	731,700.97	32° 33' 37.232 N	103° 42' 55.626 W
10,800.0		179.67	8,940.0	-1,864.9	559.1	568,035.65	731,701.54	32° 33' 36.243 N	103° 42' 55.626 W
10,900.0		179.67	8,940.0	-1,964.9	559.7	567,935.65	731,702.12	32° 33' 35.253 N	103° 42' 55.627 W
11,000.0		179.67	8,940.0	-2,064.9	560.2	567,835.65	731,702.69	32° 33' 34.264 N	103° 42' 55.627 W
11,100.0		179.67	8,940.0	-2,164.9	560.8	567,735.65	731,703.27	32° 33' 33.274 N	103° 42' 55.627 W
11,200.0		179.67	8,940.0	-2,264.9	561.4	567,635.65	731,703.84	32° 33' 32.285 N	103° 42' 55.627 W
11,300.0		179.67	8,940.0	-2,364.9	562.0	567,535.65	731,704.42	32° 33' 31.295 N	103° 42' 55.627 W
11,313.4		179.67	8,940.0	-2,378.3	562.0	567,522.26	731,704.49	32° 33' 31.163 N	103° 42' 55.627 W
	(ing at 11313.4		0.040.0	0.404.0	500 F	F07 40F 00	704 704 00	20% 221 20 20C N	4008 401 55 007 144
11,400.0		179.67	8,940.0	-2,464.9	562.5	567,435.66	731,704.99	32° 33' 30.306 N	103° 42' 55.627 W
11,500.0		179.67	8,940.0 8,940.0	-2,564.9 -2,664.9	563.1 563.7	567,335.66 567,235.66	731,705.57 731,706.14	32° 33' 29.316 N	103° 42' 55.627 W
11,600.0 11,700.0		179.67 179.67	8,940.0 8,940.0	-2,004.9 -2,764.9			731,706.72	32° 33' 28.327 N 32° 33' 27.337 N	103° 42' 55.627 W 103° 42' 55.627 W
11,800.0		179.67	8,940.0 8,940.0	-2,764.9	564.2 564.8	567,135.66 567,035.66	731,707.29	32° 33' 26.348 N	103° 42' 55.627 W
		179.67		-2,804.9 -2,964.9		566,935.66	731,707.86	32° 33' 25.358 N	103° 42' 55.627 W
11,900.0 12,000.0		179.67	8,940.0 8,940.0	-2,964.9 -3,064.9	565.4 566.0	566,835.67	731,707.88	32° 33' 24.369 N	103° 42' 55.627 W
12,000.0		179.67	8,940.0 8,940.0	-3,004.9 -3,164.9	566.5	566,735.67	731,709.01	32° 33' 23.379 N	103° 42' 55.627 W
12,100.0		179.67	8,940.0	-3,264.9	567.1	566,635.67	731,709.59	32° 33' 22.390 N	103° 42' 55.627 W
12,200.0		179.67	8,940.0 8,940.0	-3,204.9 -3,364.9	567.7	566,535.67	731,710.16	32° 33' 21.400 N	103° 42' 55.627 W
12,400.0		179.67	8,940.0	-3,464.9	568.3	566,435.67	731,710.74	32° 33' 20.411 N	103° 42' 55.628 W
12,500.0		179.67	8,940.0	-3,564.9	568.8	566,335.67	731,711.31	32° 33' 19.421 N	103° 42' 55.628 W
12,600.0		179.67	8,940.0	-3,664.9	569.4	566,235.68	731,711.89	32° 33' 18.432 N	103° 42' 55.628 W
,	00.00		2,010.0	2,500	20011	,200.00	,		

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Planning Report - Geographic



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Pakse 4 South Fed Com 114H
Company:	Permian Resources Operating, LLC	TVD Reference:	KB @ 3570.0usft (HP375)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3570.0usft (HP375)
Site:	Pakse Pad - S24 T20S R32E	North Reference:	Grid
Well:	Pakse 4 South Fed Com 114H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan 1		
200.g.n			

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,700.0	90.00	179.67	8,940.0	-3,764.9	570.0	566,135.68	731,712.46	32° 33' 17.442 N	103° 42' 55.628 W
12,800.0	90.00	179.67	8,940.0	-3,864.9	570.6	566,035.68	731,713.04	32° 33' 16.453 N	103° 42' 55.628 W
12,900.0	90.00	179.67	8,940.0	-3,964.9	571.1	565,935.68	731,713.61	32° 33' 15.463 N	103° 42' 55.628 W
13,000.0	90.00	179.67	8,940.0	-4,064.9	571.7	565,835.68	731,714.18	32° 33' 14.473 N	103° 42' 55.628 W
13,100.0	90.00	179.67	8,940.0	-4,164.9	572.3	565,735.68	731,714.76	32° 33' 13.484 N	103° 42' 55.628 W
13,200.0	90.00	179.67	8,940.0	-4,264.9	572.9	565,635.69	731,715.33	32° 33' 12.494 N	103° 42' 55.628 W
13,300.0	90.00	179.67	8,940.0	-4,364.9	573.4	565,535.69	731,715.91	32° 33' 11.505 N	103° 42' 55.628 W
13,400.0	90.00	179.67	8,940.0	-4,464.9	574.0	565,435.69	731,716.48	32° 33' 10.515 N	103° 42' 55.628 W
13,500.0	90.00	179.67	8,940.0	-4,564.9	574.6	565,335.69	731,717.06	32° 33' 9.526 N	103° 42' 55.628 W
13,600.0	90.00	179.67	8,940.0	-4,664.9	575.2	565,235.69	731,717.63	32° 33' 8.536 N	103° 42' 55.628 W
13,700.0	90.00	179.67	8,940.0	-4,764.9	575.7	565,135.69	731,718.21	32° 33' 7.547 N	103° 42' 55.628 W
13,800.0	90.00	179.67	8,940.0	-4,864.9	576.3	565,035.70	731,718.78	32° 33' 6.557 N	103° 42' 55.628 W
13,900.0	90.00	179.67	8,940.0	-4,964.9	576.9	564,935.70	731,719.36	32° 33' 5.568 N	103° 42' 55.629 W
13,957.5	90.00	179.67	8,940.0	-5,022.4	577.2	564,878.20	731,719.69	32° 33' 4.999 N	103° 42' 55.629 W
	ing at 13957.5								
14,000.0	90.00	179.67	8,940.0	-5,064.9	577.5	564,835.70	731,719.93	32° 33' 4.578 N	103° 42' 55.629 W
14,100.0	90.00	179.67	8,940.0	-5,164.9	578.0	564,735.70	731,720.50	32° 33' 3.589 N	103° 42' 55.629 W
14,200.0	90.00	179.67	8,940.0	-5,264.9	578.6	564,635.70	731,721.08	32° 33' 2.599 N	103° 42' 55.629 W
14,300.0	90.00	179.67	8,940.0	-5,364.9	579.2	564,535.70	731,721.65	32° 33' 1.610 N	103° 42' 55.629 W
14,400.0	90.00	179.67	8,940.0	-5,464.9	579.8	564,435.71	731,722.23	32° 33' 0.620 N	103° 42' 55.629 W
14,500.0	90.00	179.67	8,940.0	-5,564.9	580.3	564,335.71	731,722.80	32° 32' 59.631 N	103° 42' 55.629 W
14,600.0	90.00	179.67	8,940.0	-5,664.9	580.9	564,235.71	731,723.38	32° 32' 58.641 N	103° 42' 55.629 W
14,700.0	90.00	179.67	8,940.0	-5,764.9	581.5	564,135.71	731,723.95	32° 32' 57.652 N	103° 42' 55.629 W
14,800.0	90.00	179.67	8,940.0	-5,864.9	582.1	564,035.71	731,724.53	32° 32' 56.662 N	103° 42' 55.629 W
14,900.0	90.00	179.67	8,940.0	-5,964.9	582.6	563,935.71	731,725.10	32° 32' 55.673 N	103° 42' 55.629 W
15,000.0	90.00	179.67	8,940.0	-6,064.9	583.2	563,835.72	731,725.68	32° 32' 54.683 N	103° 42' 55.629 W
15,100.0	90.00	179.67	8,940.0	-6,164.9	583.8	563,735.72	731,726.25	32° 32' 53.694 N	103° 42' 55.629 W
15,200.0 15,300.0	90.00 90.00	179.67 179.67	8,940.0 8,940.0	-6,264.9 -6,364.9	584.4 584.9	563,635.72 563,535.72	731,726.82 731,727.40	32° 32' 52.704 N 32° 32' 51.715 N	103° 42' 55.629 W 103° 42' 55.629 W
15,300.0	90.00 90.00	179.67	8,940.0 8,940.0	-6,364.9 -6,464.9	585.5	563,435.72	731,727.97	32° 32' 50.725 N	103° 42' 55.630 W
15,500.0	90.00	179.67	8,940.0 8,940.0	-0,404.9 -6,564.8	586.1	563,335.72	731,728.55	32° 32' 50.725 N 32° 32' 49.736 N	103° 42' 55.630 W
15,600.0	90.00	179.67	8,940.0 8,940.0	-6,664.8	586.7	563,235.73	731,729.12	32° 32' 48.746 N	103° 42' 55.630 W
15,700.0	90.00	179.67	8,940.0	-6,764.8	587.2	563,135.73	731,729.70	32° 32' 47.757 N	103° 42' 55.630 W
15,800.0	90.00	179.67	8,940.0	-6,864.8	587.8	563,035.73	731,730.27	32° 32' 46.767 N	103° 42' 55.630 W
15,900.0	90.00	179.67	8,940.0	-6,964.8	588.4	562,935.73	731,730.85	32° 32' 45.778 N	103° 42' 55.630 W
16,000.0	90.00	179.67	8,940.0	-7,064.8	589.0	562,835.73	731,731.42	32° 32' 44.788 N	103° 42' 55.630 W
16,100.0	90.00	179.67	8,940.0	-7,164.8	589.5	562,735.73	731,732.00	32° 32' 43.799 N	103° 42' 55.630 W
16,200.0	90.00	179.67	8,940.0	-7,264.8	590.1	562,635.74	731,732.57	32° 32' 42.809 N	103° 42' 55.630 W
16,300.0	90.00	179.67	8,940.0	-7,364.8	590.7	562,535.74	731,733.14	32° 32' 41.820 N	103° 42' 55.630 W
16,400.0	90.00	179.67	8,940.0	-7,464.8	591.3	562,435.74	731,733.72	32° 32' 40.830 N	103° 42' 55.630 W
16,500.0	90.00	179.67	8,940.0	-7,564.8	591.8	562,335.74	731,734.29	32° 32' 39.840 N	103° 42' 55.630 W
16,587.4	90.00	179.67	8,940.0	-7,652.2	592.3	562,248.34	731,734.80	32° 32' 38.976 N	103° 42' 55.630 W
TD at 16	587.40 MD								

Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design: Design Targets	EDM 5000.15 Single User Db Permian Resources Operating, LLC Lea County, NM (NAD 83 NME) Pakse Pad - S24 T20S R32E Pakse 4 South Fed Com 114H OWB Plan 1				TVD Reference: MD Reference: North Reference:		KB @ KB @ Grid	Well Pakse 4 South Fed Com 114H KB @ 3570.0usft (HP375) KB @ 3570.0usft (HP375) Grid Minimum Curvature	
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP P4 SFC 114H - plan hits target ce - Point	0.00 nter	0.00	8,940.0	-7,562.3	591.9	562,338.29	731,734.	33 32° 32' 39.866 N	103° 42' 55.630 W
PP2 P4 SFC 114H - plan hits target ce - Point	0.00 nter	0.01	8,940.0	-2,378.3	562.0	567,522.22	731,704.	52 32° 33' 31.162 N	103° 42' 55.627 W
PBHL P4 SFC 114H - plan hits target ce - Point	0.00 nter	0.01	8,940.0	-7,652.3	592.3	562,248.29	731,734.	80 32° 32' 38.975 N	103° 42' 55.630 W
FTP P4 SFC 114H - plan misses targe - Point	0.00 t center by 197	0.00 .8usft at 887	8,940.0 5.0usft MD (165.9 8802.5 TVD, 2	547.4 23.6 N, 548.2 I	570,066.47 E)	731,689.	88 32° 33' 56.338 N	103° 42' 55.625 W
PP3 P4 SFC 114H - plan hits target ce - Point	0.00 nter	0.01	8,940.0	-5,022.4	577.2	564,878.12	731,719.	72 32° 33' 4.998 N	103° 42' 55.628 W

Plan Annotations

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
1,000.0	1,000.0	0.0	0.0	Nudge 2°/100 at 1000.00 MD
1,349.9	1,349.0	6.2	20.4	Hold 7° inc at 1349.90 MD
5,694.2	5,661.0	159.7	527.0	Drop 2°/100 at 5694.20 MD
6,044.1	6,010.0	165.9	547.4	Vertical at 6044.10 MD
8,496.6	8,462.5	165.9	547.4	KOP 12°/100 at 8496.60 MD
9,246.6	8,940.0	-311.6	550.2	LP at 9246.60 MD
11,313.4	8,940.0	-2,378.3	562.0	NMNM Xing at 11313.40 MD
13,957.5	8,940.0	-5,022.4	577.2	NMNM Xing at 13957.50 MD
16,587.4	8,940.0	-7,652.2	592.3	TD at 16587.40 MD

Permian Resources - Pakse 4 South Fed Com 114H

1. Geologic Formations

Formation	Lithology	Elevation	TVD	Target
Rustler	Sandstone	2421	1151	No
Top of Salt	Salt	2205	1367	No
Tansill	Sandstone	647	2925	No
Capitan	Sandstone	-126	3698	No
Delaware Sands	Sandstone	-1122	4694	No
Brushy Canyon	Sandstone	-2623	6195	No
Bone Spring Lime	Limestone/Shale	-4324	7896	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-5346	8918	Yes
2nd Bone Spring Sand	Sandstone/Limestone/Shale	-5897	9469	No
3rd Bone Spring Sand	Sandstone/Limestone/Shale	-6966	10538	No
Wolfcamp	Shale	-7369	10941	No

2. Blowout Prevention

BOP installed and tested before drilling	Size?	Min. Required WP	Туре		x	Tested to:	
			Anr	nular	х	1000 psi	
			Blind	Ram		to:	
12.25	20"	2M	Pipe	Ram			
			Doubl	e Ram			
			Other*				
			Annular		х	2500 psi	
			Blind	Ram	х	×	
9.875	13-5/8"	5M	Pipe	Ram	х	_	
			Doubl	e Ram			
			Other*				
			Anr	nular	х	2500 psi	
7.875			Blind	Ram	х		
	13-5/8"	5M	Pipe	Ram	х	5000 poi	
			Doubl	e Ram		5000 psr	
			Other*				

Equipment: 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 the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

Requesting Variance? YES

Variance request: Diverter to drill surface hole, break testing, flex hose, and offline cement variances, see attachments in section 8.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order II requirements. 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 multi-bowl 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 opening and closing all preventers and shall be readily accessible.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checked 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), choke lines, and choke manifold. See attached schematics.

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	1176	0	1176	1176	J55	54.5	BTC	1.95	2.21	Dry	5.54	Dry	5.20
Intermediate 1	12.25	10.75	0	2950	0	2950	2950	J55	45.5	BTC	8.10	3.95	Dry	4.54	Dry	4.44
Intermediate 2	9.875	8.625	0	4644	0	4644	4644	P110 HS	32	MO-FXL	5.73	2.51	Dry	3.17	Dry	4.60
Production	7.875	5.5	0	9246	0	8940	9246	P110RY	20	GeoConn	2.39	2.49	Dry	2.30	Dry	2.30
Production	7.875	5.5	9246	16587	8940	8940	7341	P110RY	20	GeoConn	2.39	2.49	Dry	2.30	Dry	2.30
								BLM Mi	n Safe	ety Factor	1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

	ead/Tail	Top MD	3ottom MD	Quanity (sx)	þ	Density	Ft	ess %	Cement Type	Additives
String	Lea	Тор	Bot	gua	Yield	Der	CuF	Excess	Cen	Adc
Surface	Tail	0	1176	920	1.34	14.8	1230	50%	Class C	Accelerator
										EconoCem-HLC + 5% Salt +
Intermediate 1	Lead	0	2360	330	1.88	12.9	620	50%	Class C	5% Kol-Seal
Intermediate 1	Tail	2360	2950	130	1.34	14.8	170	50%	Class C	Retarder
										EconoCem-HLC + 5% Salt +
Intermediate 2	Lead	0	3710	290	1.88	12.9	540	50%	Class C	5% Kol-Seal
Intermediate 2	Tail	3710	4644	120	1.33	14.8	150	25%	Class C	Salt
										POZ, Extender, Fluid Loss,
Production	Lead	4144	8496	430	2.41	11.5	1030	40%	Class H	Dispersant, Retarder
										POZ, Extender, Fluid Loss,
Production	Tail	8496	16587	1020	1.73	12.5	1760	25%	Class H	Dispersant, Retarder

If losses are encountered while drilling intermediate 2 a stage tool will be added and cement will be adjusted accordingly.

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: 8360 Cu Ft

Circulating Med	lium Table
-----------------	------------

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	1176	Spud Mud	8.6	9.5
1176	2950	Salt Saturated	10	10
2950	4644	Water Base Mud	8.6	9.5
4644	9246	Brine	9	10
9246	16587	OBM	9	10

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

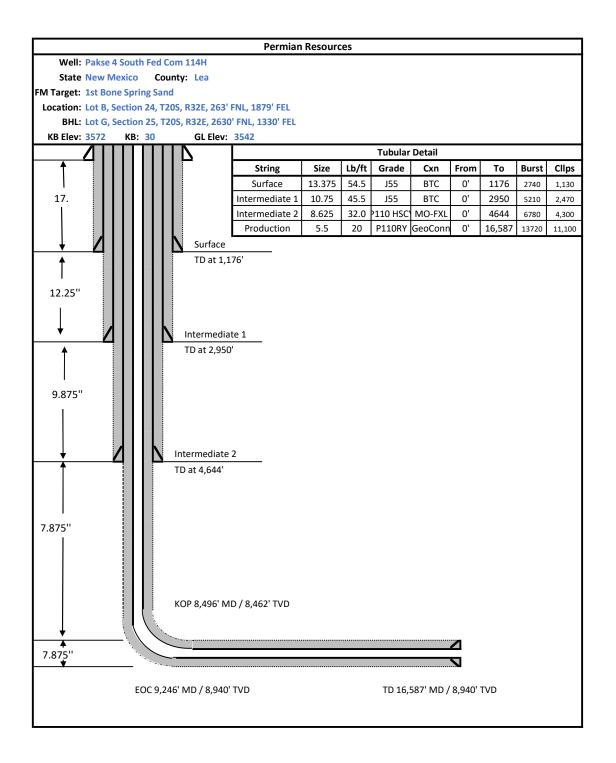
Anticipated Bottom Hole Pressure	4650	psi
Anticipated Surface Pressure	2682	psi
Anticipated Bottom Hole Temperature	146	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	

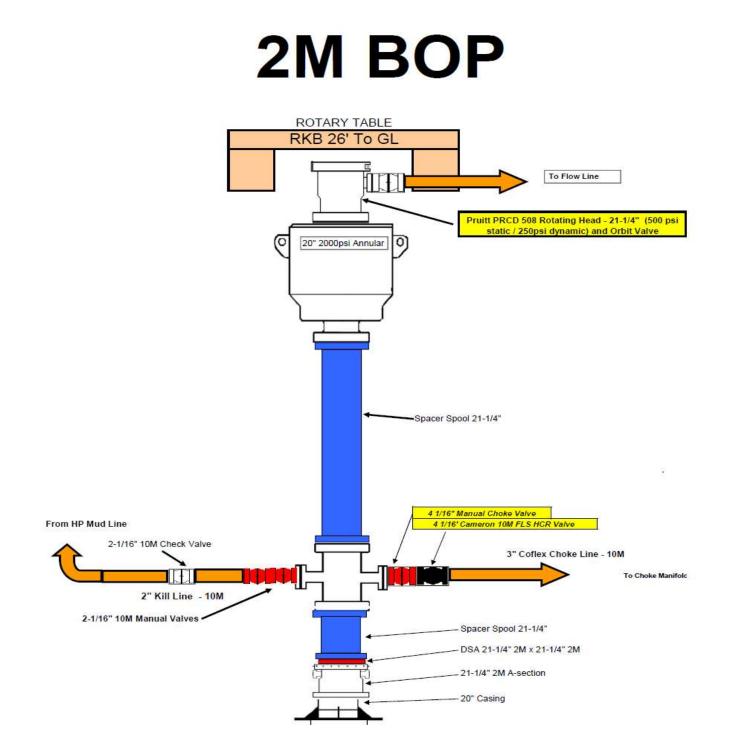
8. Waste Management

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:	8360 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

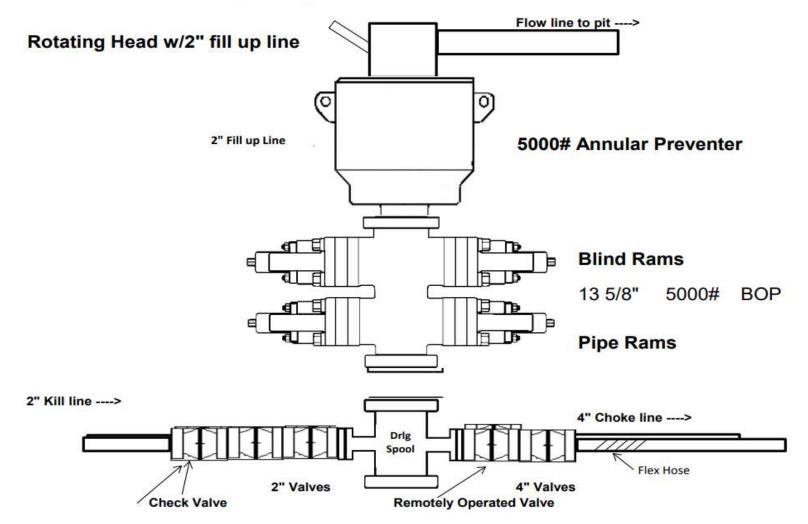
9. Other Information

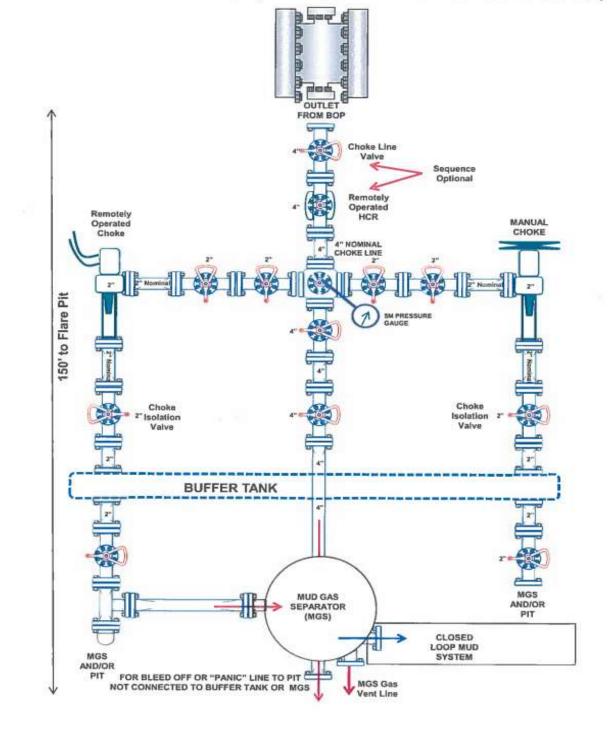
Well Plan and AC Report: attached Batching Drilling Procedure: attached WBD: attached Flex Hose Specs: attached Offline Cementing Procedure: attached Break Testing Procedure: attached





5,000 psi BOP Schematic





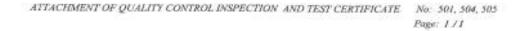
5M Choke Manifold Equipment (WITH MGS + CLOSED LOOP)



CONTITECH RUBBER	No:QC-DB- 210/ 2014	
1	Page:	9/113

	AND TES	TROL T CERTIFIC	CATE	CERT.	N	504	
PURCHASER:	ContiTech	Oil & Marine	Corp.	P.O. N	e	4500409659	9
CONTITECH RUBBER order N	e: 538236	HOSE TYPE:	3° 10		Choke and	Kill Hose	
HOSE SERIAL Nº	67255	NOMINAL 7 AG	TUAL LENG	TH:	10,67 m	/ 10,77 m	
W.P. 68,9 MPa 1	0000 psi	T.P. 103,4	MPa 1	5000 pei	Duration	60	min
т10 mm ≈ 10 міл		See attachm	ient. (1 p	age)			
→ 10 mm = 20 MP		Serie		1	11127		
COUPLINGS TW					Dubity	Heath	jo -
COUPLINGS Ty 3° coupling with		9251	9254		SI 4130	Heat M	
	ħ	- 15.01		Al			N
3" coupling wit	h lange end	9251		Al	SI 4130 SI 4130 AJ	A0578	N 8 C
3" coupling with 4 1/16" 10K API b.w. Fi Not Designed i All metal parts are flawless WE CERTIFY THAT THE ABOW	h lange end For Well Te E HOSE HAS BE	9251 esting	9254 RED IN ACCO	AI AI	SI 4130 SI 4130 Af Temp	A0579 03560 PI Spec 16 erature rat	N 8 C be:"B"
3° coupling wit 4 1/16° 10K API b.w. Fi Not Designed I All metal parts are flawless	h For Well Te E HOSE HAS BE TESTED AS ABO Y. We hereby o the above Puro dandards, codes	9251 Esting EEN MANUFACTU VE WITH SATISF certify that the abc haser Order and	9254 RED IN ACCO ACTORY RES are tensiequi that these fer and meet the	All All RIDANCE WI ULT. prent supple relevant acces	SI 4130 SI 4130 AF Temp TH THE TERMS d by us are in c	A0578 03560 PI Spec 16 erature rat of THE ORDER	N C C R R tested in

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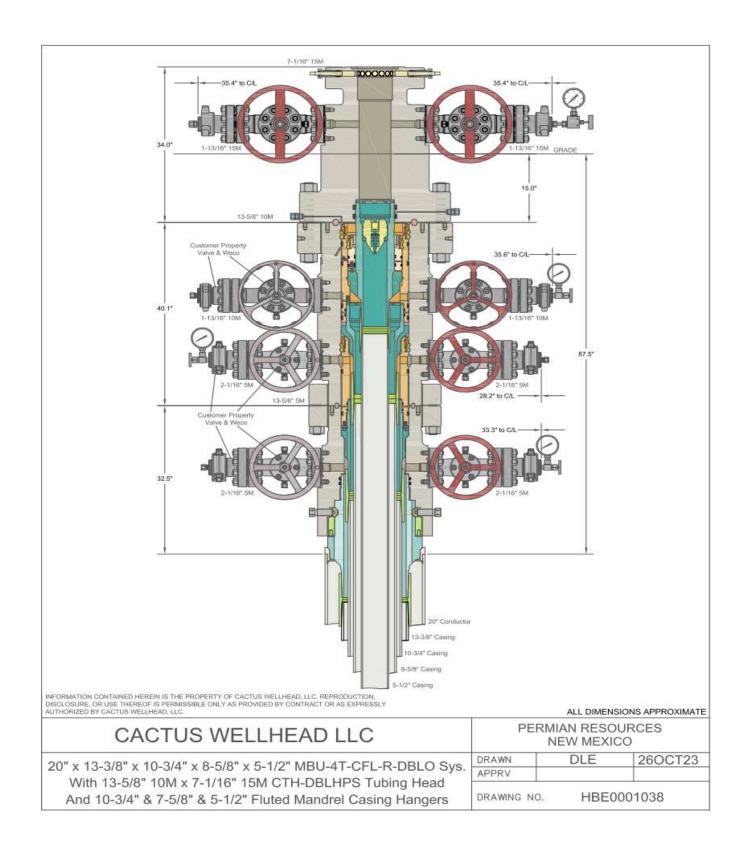


ONTITECH RUBBER	No:QC-DB- 210/ 2014		
Industrial Kft.	Page:	15/113	
	ContiTech		

Hose Data Sheet

CRI Order No.	538236
Customer	ContiTech Oil & Marine Corp.
Customer Order No	4500409859
Item No.	1
Hose Type	Flexible Hose
Standard	API SPEC 16 C
Inside dia in inches	3
Length	35 ft
Type of coupling one end	FLANGE 4.1/16" 10K API SPEC 6A TYPE 6BX FLANGE C/W BX156 R.GR.SOUR
Type of coupling other end	FLANGE 4.1/16* 10K API SPEC 6A TYPE 6BX FLANGE C/W BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature ["C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage (m)	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

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Permian Resources Casing Design Criteria

A sundry will be requested if any lesser grade or different size casing is substituted. All casing will be centralized as specified in On Shore Order II. Casing will be tested as specified in On Shore Order II.

Casing Design Assumptions:

Surface

- 1) Burst Design Loads
 - a) Displacement to Gas
 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate I

- 1) Burst Design Loads
 - a) Displacement to Gas
 - (1) Internal: Assumes a full column of gas in the casing with a gas gradient of 0.7 psi/ft in the absence of better information. It is limited to the controlling pressure based on the maximum expected pore pressure within the next drilling interval.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.

- (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
 - a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the TD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Intermediate or Intermediate II

- 1) Burst Design Loads
 - a) Gas Kick Profile
 - Internal: Load profile based on influx encountered in lateral portion of wellbore with a maximum influx volume of 150 bbl and a kick intensity of 1.5 ppg using maximum anticipated MW of 9.9 ppg.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
- a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight from TOC to surface and cement slurry weight from TOC to shoe.
 - b) Lost Returns with Mud Drop
 - Internal: Lost circulation at the deepest TVD of the next hole section and the fluid level falls to a depth where the hydrostatic pressure of the mud column equals pore pressure at the depth of the lost circulation zone.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

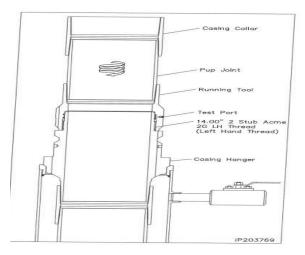
Production

- 1) Burst Design Loads
 - a) Injection Down Casing
 - (1) Internal: Surface pressure plus injection fluid gradient.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test (Drilling)
 - Internal: Displacement fluid plus surface pressure required to comply with regulatory casing test pressure requirements of Onshore Oil and Gas Order No. 2 and NM NMAC 19.15.16 of NMOCD regulations.
 - (2) External: Mud weight to TOC and cement mix water gradient (8.4 ppg) below TOC.
 - c) Casing Pressure Test (Production)
 - (1) Internal: The design pressure test should be the greater of the planned test pressure prior to simulation down the casing, the regulatory test pressure, and the expected gas lift system pressure. The design test fluid should be the fluid associated with the pressure test having the greatest pressure.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - d) Tubing Leak
 - (1) Internal: SITP plus a packer fluid gradient to the top of packer.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
- 2) Collapse Loads
- a) Cementing
 - (1) Internal: Displacement fluid density.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
 - b) Full Evacuation
 - (1) Internal: Full void pipe.
 - (2) External: Mud weight to TOC and cement slurry(s) density below TOC.
- 3) Tension Loads
 - a) Overpull Force
 - 1. Axial: Buoyant weight of the string plus planned 100,000 lbs applied in stuck pipe situation.
 - b) Green Cement Casing Test
 - 1. Axial: Buoyant weight of the string plus cement plug bump pressure load.

Permian Resources Multi-Well Pad Batch Drilling & Off Line Cement Procedure

<u>Surface Casing</u> - PR intends to Batch set and offline cement all surface casing to a depth approved in the APD. Surface Holes will be batch drilled by a big 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 Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run casing with Cactus Multibowl system, with baseplate supported by Conductor.
- 3. Circulate 1.5 csg capacity.
- 4. Flow test Confirm well is static.
- 5. Install cap flange.
- 6. Skid rig to next well on pad
- 7. 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
- 8. Install offline cement tool.
- 9. Rig up cementers.
- 10. Circulate bottoms up with cement truck
- 11. Commence planned cement job, take returns through the annulus wellhead valve
- 12. After plug is bumped confirm floats hold and well is static
- 13. Perform green cement casing test.
 - a) Test Surface casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 14. Rig down cementers and equipment
- 15. Install night cap with pressure gauge to monitor.



<u>Intermediate 1 Casing</u> – PR intends to Batch set all intermediate 1 casing strings to a depth approved in the APD, typically set into end of salts. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

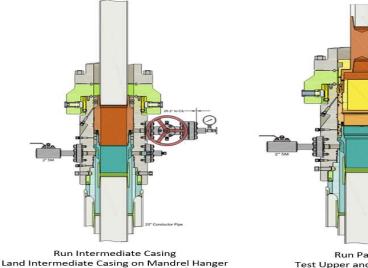
Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 1 as per requested break testing variance).

Install wear bushing then drill out 20" shoe-track.

- 1. Drill Intermediate 1 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 2. Remove wear bushing then run and land Intermediate 1 casing with mandrel hanger in wellhead.
- 3. Flow test Confirm well is static.
- 4. Set Annular packoff and pressure test. Test to 5k.
- 5. Install BPV, Nipple down BOP and install cap flange.
- 6. Skid rig to next well on pad
- 7. 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
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- 8. Install offline cement tool.
- 9. Rig up cementers.
- 10. Circulate bottoms up with cement truck
- 11. Commence planned cement job, take returns through the annulus wellhead valve
- 12. After plug is bumped confirm floats hold and well is static
- 13. Perform green cement casing test.
 - a) Test casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 14. Rig down cementers and equipment
- 15. Install night cap with pressure gauge to monitor.

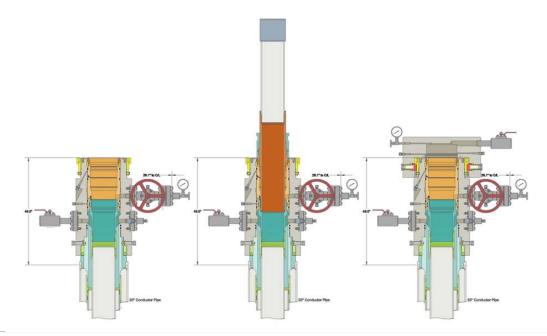
Cement Intermediate Casing

Retrieve Running Tool



Run Packoff Test Upper and Lower Seals Engage Lockring Retrieve Running Tool

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<u>Intermediate 2 Casing</u> – PR intends to Batch set all Intermediate 2 casing strings to a depth approved in the APD, typically set into Captain past losses. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

- 1. Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 2 as per requested break testing variance).
- 2. Install wear bushing then drill out Intermediate 1 shoe-track.
- 3. Drill Intermediate 2 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 4. Remove wear bushing then run and land Intermediate 2 casing with mandrel hanger in wellhead.
- 5. Flow test Confirm well is static.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Install BPV, 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. Perform green cement casing test.
 - a) Test casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 16. Rig down cementers and equipment
- 17. Install night cap with pressure gauge to monitor.

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

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track.
- 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 to surface with floats holding.

Permian Resources BOP Break Testing Variance Procedure

Subject: Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE). Permian Resources requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Title 43 CFR 3172, Drilling Operations, Sections 6.b.9.iv states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. 43 CFR 3172.13, Variances from minimum standards states, "An operator may request the authorized officer to approve a variance from any of the minimum standards prescribed in §§ 3172.6 through 3172.12. All such requests shall be submitted in writing to the appropriate authorized officer and provide information as to the circumstances which warrant approval of the variance(s) requested and the proposed alternative methods by which the related minimum standard(s) are to be satisfied. The authorized officer, after considering all relevant factors, if appropriate, may approve the requested variance(s) if it is determined that the proposed alternative(s) meet or exceed the objectives of the applicable minimum standard(s).". Permian Resources feels the break testing the BOPE is such a situation. Therefore, as per 43 CFR 3172.13, Permian Resources submits this request for the variance.

Supporting Documentation

The language used in 43 CFR 3172 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time, there have been significant changes in drilling technology. The BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since 43 CFR 3172 was originally released. The Permian Resources drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.

Figure 1: Winch System attached to BOP Stack

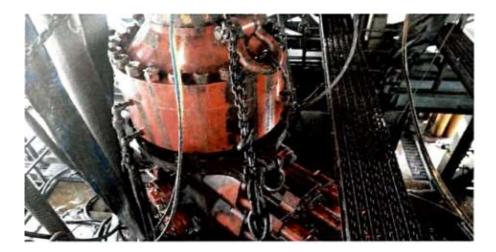


Figure 2: BOP Winch System



American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. 43 CFR 3172 recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, Well Control Equipment Systems for Drilling Wells (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

	Pressure Test-Low	Pressure Test-High Pressure*		
Component to be Pressure Tested	Pressure Test—Low Pressure* psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket	
Annular preventer*	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.	
Fixed pipe, variable bore, blind, and BSR preventers ³²	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ЧTI	
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2 41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP	
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP	
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	ASP for the well program,	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program		
 Annular(s) and VBR(s) shall be pre- For pad drilling operations, moving pressure-controlling connections For surface offshore operations, the 	during the evaluation period. The p ssure tested on the largest and sma from one wellhead to another within when the integray of a pressure set is rain BOPs shall be pressure test land operations, the rain BOPs sha	ressure shall not decrease below the altest OD drill pipe to be used in well in the 21 days, pressure testing is req al is broken. led with the ram locks engaged and ill be pressure tested with the ram loc	program. wred for pressure-containing an the closing and locking pressure	

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

Permian Resources feels break testing and our current procedures meet the intent of 43 CFR 3172 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. Permian Resources internal standards require complete BOPE tests more often than that of 43 CFR 3172 (every 21 days). In addition to function testing the annular, pipe rams and blind rams after each BOP nipple up, Permian Resources performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of 43 CFR 3172.

Procedures

1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.

2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.

a)A full BOP test will be conducted on the first well on the pad.

b)The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.

c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

d) A full BOP test will be required prior to drilling any production hole.

3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.

a) Between the HCV valve and choke line connection

b)Between the BOP quick connect and the wellhead

4) The BOP is then lifted and removed from the wellhead by a hydraulic system.

5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.

6) The connections mentioned in 3a and 3b will then be reconnected.

7) Install test plug into the wellhead using test joint or drill pipe.

8) A shell test is performed against the upper pipe rams testing the two breaks.

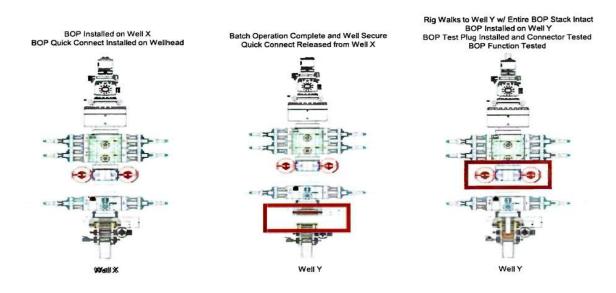
9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).

10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.

11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.

12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



Summary

A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

event occurs prior to the commencement of a BOPE Break Testing operation.

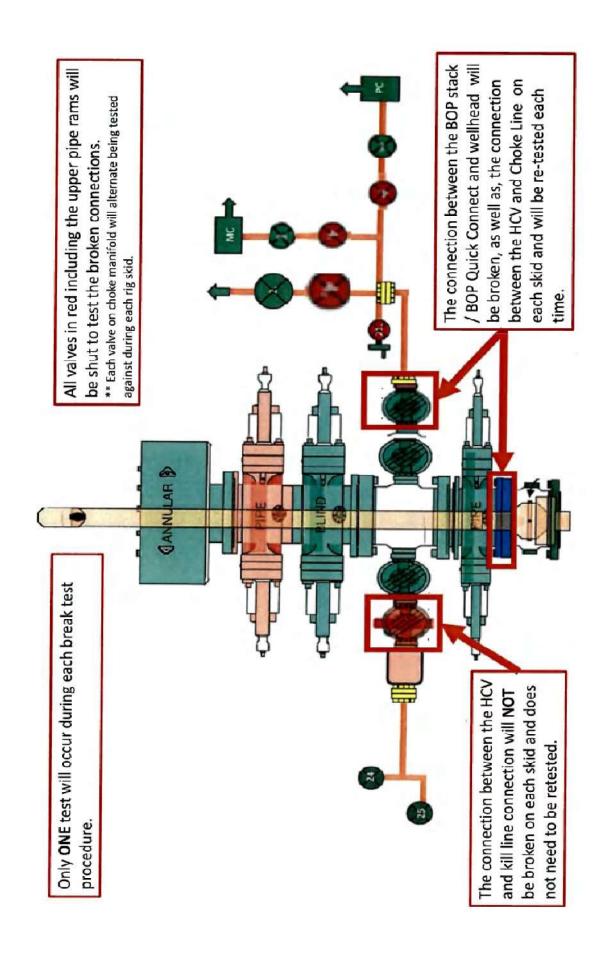
Based on public data and the supporting documentation submitted herein to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

1) After a full BOP test is conducted on the first well on the pad.

2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.

3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.

4) A full BOP test will be required prior to drilling the production hole.



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etal One Corp.	MO-FX			MO-FXL 8	
			CDS#	P110HSCY MinYS125ksi	
Metal <mark>O</mark> ne	*1 Pipe Body: BMP P110H		000		
	Min95%W			Min959	
	Connection Da	ta Sheet	Date	8-Sep)-21
	Geometry	Imperia	<u>1</u>	<u>S.I.</u>	
	Pipe Body				_
	Grade *1	P110HSCY		P110HSCY	
	MinYS *1	125	ksi	125	ksi
	Pipe OD (D)	8 5/8	in	219.08	mm
MO-FXL	Weight	32.00	lb/ft	47.68	kg/m
	Actual weight	31.10		46.34	kg/m
	Wall Thickness (t)	0.352	in	8.94	mm
	Pipe ID (d)	7.921	in	201.19	mm
	Pipe body cross section	9.149	in ²	5,902	mm ²
	Drift Dia.	7.796	in	198.02	mm
	-	-	-	-	-
	Connection				
	Box OD (W)	8.625	in	219.08	mm
\rightarrow	PIN ID	7.921	in	201.19	mm
	Make up Loss	3.847	in	97.71	mm
Box	Box Critical Area	5.853	in ²	3686	mm ²
area	Joint load efficiency	69	%	69	%
	Thread Taper	1	/ 10 (1	2" per ft)	
	Number of Threads		5	TPI	
	d				
ap C	Performance				
up C	Performance Propertie			5.007	LN
up C	 Performance Propertie S.M.Y.S. *1 	1,144	kips	5,087	<u>kN</u>
loss Pin	 Performance Propertie S.M.Y.S. *1 M.I.Y.P. *1 Collapse Strength *1 		kips psi	66.83	MPa
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al One Corp. Metal One	GEOCONN-S Pipe Body: SeAH P110RY(SMYS11 Coupling: P110CY (SMY Connection Data Geometry Pipe Body Grade *1 SMYS	0ksi) & 95%RBW *1 S110ksi)	Page	SC-CplgOD	SeAH PRY 95%
	Coupling: P116CY (SMY Connection Data Geometry Pipe Body Grade *1	S110ksi)			0 6.050 P110CY
	Connection Data Geometry Pipe Body Grade *1		Date		Sep-21
	Geometry Pipe Body Grade *1	oneer	Rev.		0
	Pipe Body Grade *1			1	•
GEOCONN-SC	Grade 1	Impe	rial	<u>S.</u>	<u>I.</u>
GEOCONN-SC		C-41104400V			
GEOCONN-SC		SeAH P110RY 110	-	SeAH P110RY	luci.
GEOCONN-SC	Pipe OD (D)	5,500	ksi	110 139,70	ksi
GEOCOMM-SC	Weight	20.00			mm
	Wall Thickness (t)	0.361	lb/ft in	29.80 9.17	kg/m
	Pipe ID (d)	4.778	in	121.36	mm
1 144	Drift Dia.	4.653	in	118.19	mm
Wsc1	Drift Dia.	4.000	in	110.18	mm
- −−D	Connection				
	Coupling SMYS	110	ksi	110	ksi
	Coupling OD (Wsc1)	6.050	in	153.67	mm
b	Coupling Length (NL)	8.350	in	212.09	mm
3	Make up Loss	4.125	in	104.78	mm
1	Pipe Critical Area	5.83	in ²	3,760	mm ²
1	Box Critical Area	6.00	in ²	3.874	mm ²
8	Thread Taper	0.00		3/4" per ft)	mm
	Number of Threads			TPI	
	Performance Properties for Pi S.M.Y.S.	pe Body 641	kips	2,852	LNI
			kips		
5	MLYP. 1		nei		kN MPa
- NL	-	13,720 11,100 ified Minimum YIELD		94.62 76.55 body	MPa MPa
- NL -	Collapse Strength Note S.M.Y.S.= Spec	11,100 ified Minimum YIELD num Internal Yield Pre ksi), Min Wall Thickne	psi Strength of Pipe essure of Pipe b	94.62 76.55 body ody	MPa
- NL -	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110	11,100 ified Minimum YIELD num Internal Yield Pre ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe b	94.62 76.55 body ody 7: 95% of Nom wall of S.M.Y.S.	MPa
- NL -	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C	11,100 ified Minimum YIELD num Internal Yield Pri ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe b ess of Pipe Body	94.62 76.55 body ody r: 95% of Nom wall	MPa
- NI	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength	11,100 ified Minimum YIELD num Internal Yield Pri ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe Body 100% 100% 100% of M.I.1	94.62 76.55 ody cody c 95% of Nom wall of S.M.Y.S. of S.M.Y.S.	MPa
- NL	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure	11,100 ified Minimum YIELD num Internal Yield Pri ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe Body 100% 100%	94.62 76.55 ody cody c 95% of Nom wall of S.M.Y.S. of S.M.Y.S.	MPa
	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure	11,100 ified Minimum YIELD num Internal Yield Pri ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe Body 100% 100% 100% of M.I.1	94.62 76.55 ody cody c 95% of Nom wall of S.M.Y.S. of S.M.Y.S.	MPa
	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque	11.100 ified Minimum YIELD num Internal Yield Pro ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe Body 100% 100% 100% of M.I.1	94.62 76.55 ody cody c 95% of Nom wall of S.M.Y.S. of S.M.Y.S.	MPa
	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	11,100 ified Minimum YIELD num Internal Yield Pri- ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe b ess of Pipe Body 100% 100% 100% of M.I.Y 100% of Colla 5 ft-lb	94.62 76.55 a body ody : 95% of Nom wall of S.M.Y.S. of S.M.Y.S. (.P. pse Strength >90	MPa MPa N-m
	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti.	11,100 ified Minimum YIELD num Internal Yield Pri- ksi), Min Wall Thickne onnection 14,600 16,200	psi Strength of Pipe essure of Pipe b ess of Pipe Body 100% 100% 100% of M.LY 100% of Colla 5 ft-lb ft-lb	94.62 76.55 a body ody : 95% of Nom wall of S.M.Y.S. of S.M.Y.S. (.P. pse Strength 90	MPa MPa N-m N-m
	Collapse Strength Note S.M.Y.S.= Spec M.I.Y.P. = Minir *1 Pipe: SeAH P110RY (SMYS110 Performance Properties for C Min. Connection Joint Strength Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min.	11,100 ified Minimum YIELD num Internal Yield Pri- ksi), Min Wall Thickne onnection	psi Strength of Pipe essure of Pipe b ess of Pipe Body 100% 100% 100% of M.I.Y 100% of Colla 5 ft-lb	94.62 76.55 a body ody : 95% of Nom wall of S.M.Y.S. of S.M.Y.S. (.P. pse Strength >90	MPa MPa N-m

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EARTHSTONE OPERATING LLC
WELL NAME & NO.:	PAKSE 4 SOUTH FED COM 433H
SURFACE HOLE FOOTAGE:	263'/N & 1909'/E
BOTTOM HOLE FOOTAGE	2629'/N & 1650'/E
LOCATION:	Section 24, T.20 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	• Yes	C No	
Potash	C None	C Secretary	• R-111-P
Cave/Karst Potential	• Low	C Medium	C High
Cave/Karst Potential	Critical		
Variance	C None	Itex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Wellhead Variance	C Diverter		
Other	✓ 4 String	Capitan Reef	□WIPP
Other	Fluid Filled	🗆 Pilot Hole	□ Open Annulus
Cementing	Contingency	EchoMeter	Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	🗆 Water Disposal	COM	🗖 Unit
Special Requirements	Batch Sundry		
Special Requirements	Break Testing	☑ Offline	Casing
Variance		Cementing	Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet 43 CFR part 3170 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Primary Casing Design:

 The 13-3/8 inch surface casing shall be set at approximately 1230 feet per BLM Geologist (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be 17 1/2 inch in diameter.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>24 hours in the Potash Area</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **10-3/4** inch intermediate 1 casing shall be set at approximately **3500 feet per BLM Geologist.** The minimum required fill of cement behind the **10-3/4** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.
 - In <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The 8-5/8 inch intermediate 2 casing shall be set at approximately 5290 feet per BLM Geologist. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least 50 feet on top of Capitan Reef top or 500 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the **13-3/8** inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (**575-706-2779**) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

Casing Clearance:

Operator casing variance is approved for the utilization of 10-3/4 inch intermediate casing in a $12 \frac{1}{4}$ inch intermediate hole.

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

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

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. 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. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 3172.
- C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

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

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

JS 2/21/2024

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	320425
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/25/2024

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Action 320425