

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	NMNM77055
6. If Indian, Allottee or Tribe Name	

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. PAKSE 3 SOUTH FED COM/212H
2. Name of Operator EARTHSTONE OPERATING LLC		9. API Well No. 3002552263
3a. Address 300 N MARIENFIELD STREET SUITE 1000, MID	3b. Phone No. (include area code) (432) 695-4222	10. Field and Pool or Exploratory Area SALT LAKE/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 24/T20S/R32E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

APD CHANGE SUNDRY TO REVISE WELL NUMBER

WELL NUMBER CHANGE

FROM: PAKSE 3 SOUTH FED COM 212H

TO: PAKSE 3 SOUTH FED COM 322H

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) JENNIFER ELROD / Ph: (940) 452-6214	Title Senior Regulatory Analyst
Signature (Electronic Submission)	Date 02/16/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by Candy Vigil / Ph: (575) 234-5982 / Approved	Title LIE	Date 02/20/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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.

(Instructions on page 2)

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

Location of Well

0. SHL: NENW / 264 FNL / 2008 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5652003 / LONG: -103.7218255 (TVD: 0 feet, MD: 0 feet)
PPP: NENW / 100 FNL / 2310 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5656512 / LONG: -103.7208462 (TVD: 9780 feet, MD: 9872 feet)
PPP: SENW / 1323 FNL / 2309 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5622901 / LONG: -103.7208439 (TVD: 9886 feet, MD: 11095 feet)
PPP: NESW / 2646 FNL / 2307 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5586542 / LONG: -103.7208414 (TVD: 9897 feet, MD: 12418 feet)
PPP: NENW / 0 FNL / 2305 FWL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.5513814 / LONG: -103.7208365 (TVD: 9923 feet, MD: 15058 feet)
BHL: SENW / 2630 FNL / 2310 FWL / TWSP: 20S / RANGE: 32E / SECTION: 36 / LAT: 32.5296489 / LONG: -103.7208217 (TVD: 9997 feet, MD: 22828 feet)

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Signature (Electronic Submission)	Date 02/20/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 02/22/2024
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office CARLSBAD	

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Additional Information

Location of Well

0. SHL: NENW / 264 FNL / 2008 FWL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5652003 / LONG: -103.7218255 (TVD: 0 feet, MD: 0 feet)
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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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☒ AMENDED REPORT
WELL NUMBER

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-025-52263	2 Pool Code 53560	3 Pool Name SALT LAKE; BONE SPRING
4 Property Code 335023	5 Property Name PAKSE 3 SOUTH FED COM	
6 Well Number 322H		7 OGRID No. 331165
8 Operator Name EARTHSTONE OPERATING LLC		9 Elevation 3540.20'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	24	20-S	32-E		264'	NORTH	2008'	WEST	LEA

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	36	20-S	32-E		2630'	NORTH	2310'	WEST	LEA

12 Dedicated Acres 400	13 Joint or Infill	14 Consolidation Code	15 Order No.
----------------------------------	---------------------------	------------------------------	---------------------

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

	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Jennifer Elrod</i> 2/16/2024 Signature Date</p> <p>JENNIFER ELROD Printed Name</p> <p>jennifer.elrod@permres.com E-mail Address</p>	
	<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Charles L. Jurica Date of Survey: 02/09/2024</p> <p>Signature and Seal of Professional Surveyor: <i>Charles L. Jurica</i> Certificate Number: 25490</p>	
	<p>SURFACE HOLE LOCATION (SHL) NEW MEXICO EAST - NAD 83 X=729727.08 LAT.= 32.56520034° N Y=569891.70 LONG.= 103.72182559° W NEW MEXICO EAST - NAD 27 X=688546.57 LAT.= 32.56507856° N Y=569829.54 LONG.= 103.72133009° W 264' FNL, 2008' FWL - SECTION 24 264' FNL, 638' FEL - LEASE</p>	<p>PENETRATION POINT (PP2) NEW MEXICO EAST - NAD 83 X=730035.59 LAT.= 32.56229016° N Y=568834.69 LONG.= 103.72084395° W NEW MEXICO EAST - NAD 27 X=688855.05 LAT.= 32.56216836° N Y=568772.56 LONG.= 103.72034859° W 1323' FNL, 2309' FWL - SECTION 24 0' FSL, 336' FEL - LEASE</p>
	<p>FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=730027.86 LAT.= 32.56565122° N Y=570057.47 LONG.= 103.72084622° W NEW MEXICO EAST - NAD 27 X=688847.35 LAT.= 32.56552944° N Y=569995.30 LONG.= 103.72035073° W 100' FNL, 2310' FWL - SECTION 24 100' FNL, 336' FEL - LEASE</p>	<p>PENETRATION POINT (PP3) NEW MEXICO EAST - NAD 83 X=730043.96 LAT.= 32.55865424° N Y=567511.91 LONG.= 103.72084149° W NEW MEXICO EAST - NAD 27 X=688863.38 LAT.= 32.55853242° N Y=567449.81 LONG.= 103.72034627° W 2646' FNL, 2307' FWL - SECTION 24 0' FNL, 2307' FWL - LEASE</p>
	<p>LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=730110.15 LAT.= 32.52989634° N Y=557049.59 LONG.= 103.72082196° W NEW MEXICO EAST - NAD 27 X=688929.28 LAT.= 32.52977436° N Y=556987.76 LONG.= 103.72032784° W 2540' FNL, 2310' FWL - SECTION 36 100' FSL, 331' FEL - LEASE</p>	<p>PENETRATION POINT (PP4) NEW MEXICO EAST - NAD 83 X=730060.70 LAT.= 32.55138140° N Y=564866.00 LONG.= 103.72083656° W NEW MEXICO EAST - NAD 27 X=688880.05 LAT.= 32.55125954° N Y=564803.97 LONG.= 103.72034162° W 0' FNL, 2305' FWL - SECTION 25 0' FNL, 2305' FWL - LEASE</p>
<p>BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=730110.72 LAT.= 32.52964896° N Y=556959.59 LONG.= 103.72082177° W NEW MEXICO EAST - NAD 27 X=688929.85 LAT.= 32.52952698° N Y=556897.76 LONG.= 103.72032766° W 2630' FNL, 2310' FWL - SECTION 36 10' FSL, 331' FEL - LEASE</p>	<p>PENETRATION POINT (PP5) NEW MEXICO EAST - NAD 83 X=730094.08 LAT.= 32.53687888° N Y=559589.88 LONG.= 103.72082671° W NEW MEXICO EAST - NAD 27 X=688913.28 LAT.= 32.53675695° N Y=559527.99 LONG.= 103.72033233° W 0' FNL, 2310' FWL - SECTION 36 0' FNL, 330' FEL - LEASE</p>	

Well Name: PAKSE 3 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW /	County or Parish/State:
Well Number: 212H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552263	Well Status: Approved Application for Permit to Drill	Operator: EARTHSTONE OPERATING LLC

Notice of Intent

Sundry ID: 2775510

Type of Submission: Notice of Intent

Date Sundry Submitted: 02/16/2024

Date proposed operation will begin: 03/16/2024

Type of Action: APD Change

Time Sundry Submitted: 01:10

Procedure Description: APD CHANGE SUNDRY TO REVISE WELL NUMBER WELL NUMBER CHANGE FROM: PAKSE 3 SOUTH FED COM 212H TO: PAKSE 3 SOUTH FED COM 322H

NOI Attachments

Procedure Description

Pakse_3_South_Fed_Com__322H_APD_CHANGE_BLM_ATTACHMENTS_20240216130916.pdf

Well Name: PARSE 3 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW /	County or Parish/State:
Well Number: 212H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552263	Well Status: Approved Application for Permit to Drill	Operator: EARTHSTONE OPERATING LLC

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	Signed on: FEB 16, 2024 01:10 PM
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:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: Candy Vigil	BLM POC Title: LIE
BLM POC Phone: 5752345982	BLM POC Email Address: cvigil@blm.gov
Disposition: Approved	Disposition Date: 02/20/2024
Signature: Cody Layton Assistant Field Manager	

Well Name: PAKSE 3 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW /	County or Parish/State:
Well Number: 212H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM77055	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002552263	Well Status: Approved Application for Permit to Drill	Operator: EARTHSTONE OPERATING LLC

Notice of Intent

Sundry ID: 2775915

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 02/20/2024

Time Sundry Submitted: 01:21

Date proposed operation will begin: 03/16/2024

Procedure Description: APD CHANGE SUNDRY FILED TO REVISE CASING DESIGN

NOI Attachments

Procedure Description

Pakse_3_South_Fed_Com__322H_APD_CHANGE_BLM_ATTACHMENTS2_20240220132048.pdf

Conditions of Approval

Additional

Sec24_T20SR32E_PAKSE_3_SOUTH_FED_COM_Lea_NMNM77055_EARTHSTONE_OPERATING_LLC_2_20_2024_JS_20240221103922.pdf

Authorized

PAKSE_3_SOUTH_FED_COM_322H_COAs_20240222092647.pdf

Well Name: PARSE 3 SOUTH FED COM	Well Location: T20S / R32E / SEC 24 / NENW /	County or Parish/State:
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Operator Electronic Signature: JENNIFER ELROD	Signed on: FEB 20, 2024 01:20 PM
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:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 02/22/2024
Signature: Chris Walls	

Sec24-T20SR32E_PAKSE 3 SOUTH FED COM_Lea_NMNM77055_EARTHSTONE OPERATING LLC_2-20-2024_JS

PAKSE 3 SOUTH FED COM

13 3/8		surface csg in a		17 1/2	inch hole.		Design Factors			Surface			
Segment	#/ft	Grade			Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"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 psig: 1,374					Tail Cmt	does not	circ to sfc.	Totals:	1,230				67,035
Comparison of Proposed to Minimum Required Cement Volumes													
Hole	Annular	1 Stage		1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx		CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
17 1/2	0.6946	920		1233	854	44	9.50	1048	2M				1.56
Site plat (pipe racks S or E) as per O.O 1.III-D-4-I: not found.													

10 3/4		casing inside the		13 3/8		Design Factors				Int 1				
Segment	#/ft	Grade			Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	45.50			J 55	BTC	4.49	1.15	1.37	3,500	2	2.47	1.99	159,250	
									0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 979									Totals:		3,500			159,250
The cement volume(s) are intended to achieve a top of									0	ft from surface or a		1230	overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg	
12 1/4	0.1882	460		795	719	10	10.00	1447	2M				0.25	
D V Tool(s):								sum of sx		Σ CuFt		Σ%excess		
t by stage % :								460		795		10		
Class 'H' tail cmt yld > 1.20														
Does not meet CFO cement excess														

8 5/8		casing inside the		10 3/4		Design Factors				Int 2				
Segment	#/ft	Grade			Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	32.00			P 110	mo-fxl	5.94	1.65	1.69	5,290	4	2.93	2.97	169,280	
									0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500									Totals:	5,290				169,280
The cement volume(s) are intended to achieve a top of						0	ft from surface or a		3500				overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg	
9 7/8	0.1261	410		705	696	1	9.50	3305	5M				0.63	
Class 'C' tail cmt yld > 1.35														
Does not meet CFO cement excess														

5 1/2		casing inside the		8 5/8		Design Factors				Prod 1			
Segment	#/ft	Grade			Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00			P 110	geoconn	1.15	1.73	2.39	11,352	2	4.15	3.36	227,040
"B"	20.00			P 110	geoconn	∞	1.94	2.39	12,669	2	4.15	3.36	253,380
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428									Totals:	24,021	480,420		
The cement volume(s) are intended to achieve a top of						5090	ft from surface or a		200			overlap.	
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
7 7/8	0.1733	2310		4418	3281	35	10.00					0.91	
Class 'H' tail cmt yld > 1.20													
Capitan Reef est top XXXX.													

NEW MEXICO

(SP) LEA

PASKE PROJECT

PAKSE 3 SOUTH FED COM 322H

OWB

PWP0

Anticollision Report

13 February, 2024

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 800.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	2/13/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	23,860.0	PWP0 (OWB)	MWD	OWSG_Rev2_ MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
PASKE PROJECT						
PAKSE 3 SOUTH FED COM 112H - OWB - PWP0	2,000.0	2,000.1	60.0	45.9	4.248	CC
PAKSE 3 SOUTH FED COM 112H - OWB - PWP0	2,004.4	2,004.6	60.0	45.8	4.239	ES
PAKSE 3 SOUTH FED COM 112H - OWB - PWP0	2,100.0	2,100.5	61.1	46.3	4.118	SF
PAKSE 3 SOUTH FED COM 113H - OWB - PWP0	1,966.6	1,966.7	30.0	16.1	2.161	CC
PAKSE 3 SOUTH FED COM 113H - OWB - PWP0	2,100.0	2,099.1	30.3	15.5	2.044	ES
PAKSE 3 SOUTH FED COM 113H - OWB - PWP0	2,200.0	2,198.0	31.3	15.8	2.018	SF
PAKSE 3 SOUTH FED COM 222H - OWB - PWP0	2,000.0	1,999.8	30.0	15.9	2.124	CC, ES
PAKSE 3 SOUTH FED COM 222H - OWB - PWP0	9,400.0	9,398.3	116.0	48.5	1.718	SF
PAKSE 3 SOUTH FED COM 432H - OWB - PWP0	1,966.6	1,966.7	90.0	76.1	6.482	CC
PAKSE 3 SOUTH FED COM 432H - OWB - PWP0	2,000.0	2,000.0	90.0	75.9	6.372	ES
PAKSE 3 SOUTH FED COM 432H - OWB - PWP0	2,100.0	2,097.2	93.0	78.2	6.276	SF

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 112H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Reference	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.1	0.1	0.0	0.0	-90.33	-0.3	-60.0	60.0					
100.0	100.0	100.1	100.1	0.3	0.3	-90.33	-0.3	-60.0	60.0	59.5	0.50	119.489		
200.0	200.0	200.1	200.1	0.6	0.6	-90.33	-0.3	-60.0	60.0	58.8	1.22	49.218		
300.0	300.0	300.1	300.1	1.0	1.0	-90.33	-0.3	-60.0	60.0	58.1	1.94	30.992		
400.0	400.0	400.1	400.1	1.3	1.3	-90.33	-0.3	-60.0	60.0	57.3	2.65	22.616		
500.0	500.0	500.1	500.1	1.7	1.7	-90.33	-0.3	-60.0	60.0	56.6	3.37	17.805		
600.0	600.0	600.1	600.1	2.0	2.0	-90.33	-0.3	-60.0	60.0	55.9	4.09	14.681		
700.0	700.0	700.1	700.1	2.4	2.4	-90.33	-0.3	-60.0	60.0	55.2	4.80	12.490		
800.0	800.0	800.1	800.1	2.8	2.8	-90.33	-0.3	-60.0	60.0	54.5	5.52	10.868		
900.0	900.0	900.1	900.1	3.1	3.1	-90.33	-0.3	-60.0	60.0	53.8	6.24	9.619		
1,000.0	1,000.0	1,000.1	1,000.1	3.5	3.5	-90.33	-0.3	-60.0	60.0	53.0	6.95	8.627		
1,100.0	1,100.0	1,100.1	1,100.1	3.8	3.8	-90.33	-0.3	-60.0	60.0	52.3	7.67	7.821		
1,200.0	1,200.0	1,200.1	1,200.1	4.2	4.2	-90.33	-0.3	-60.0	60.0	51.6	8.39	7.153		
1,300.0	1,300.0	1,300.1	1,300.1	4.6	4.6	-90.33	-0.3	-60.0	60.0	50.9	9.11	6.590		
1,400.0	1,400.0	1,400.1	1,400.1	4.9	4.9	-90.33	-0.3	-60.0	60.0	50.2	9.82	6.109		
1,500.0	1,500.0	1,500.1	1,500.1	5.3	5.3	-90.33	-0.3	-60.0	60.0	49.5	10.54	5.693		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 112H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-MWD								Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
1,600.0	1,600.0	1,600.1	1,600.1	5.6	5.6	-90.33	-0.3	-60.0	60.0	48.7	11.26	5.330		
1,700.0	1,700.0	1,700.1	1,700.1	6.0	6.0	-90.33	-0.3	-60.0	60.0	48.0	11.97	5.011		
1,800.0	1,800.0	1,800.1	1,800.1	6.3	6.3	-90.33	-0.3	-60.0	60.0	47.3	12.69	4.728		
1,900.0	1,900.0	1,900.1	1,900.1	6.7	6.7	-90.33	-0.3	-60.0	60.0	46.6	13.41	4.475		
2,000.0	2,000.0	2,000.1	2,000.1	7.1	7.1	-90.33	-0.3	-60.0	60.0	45.9	14.12	4.248 CC		
2,004.4	2,004.4	2,004.6	2,004.6	7.1	7.1	-144.67	-0.3	-60.0	60.0	45.8	14.16	4.239 ES		
2,100.0	2,100.0	2,100.5	2,100.5	7.4	7.4	-143.99	1.4	-59.7	61.1	46.3	14.84	4.118 SF		
2,200.0	2,199.8	2,200.8	2,200.6	7.8	7.8	-142.08	6.6	-58.7	64.4	48.9	15.55	4.144		
2,300.0	2,299.5	2,300.7	2,300.2	8.1	8.1	-139.68	14.7	-57.2	70.2	53.9	16.25	4.316		
2,350.0	2,349.1	2,350.6	2,349.9	8.3	8.3	-139.11	19.0	-56.4	74.0	57.4	16.61	4.456		
2,400.0	2,398.8	2,400.4	2,399.5	8.5	8.5	-138.85	23.2	-55.6	78.2	61.3	16.97	4.610		
2,500.0	2,498.0	2,500.0	2,498.8	8.8	8.9	-138.41	31.8	-54.0	86.6	68.9	17.68	4.899		
2,600.0	2,597.3	2,599.7	2,598.0	9.2	9.2	-138.05	40.3	-52.4	95.0	76.6	18.40	5.165		
2,700.0	2,696.5	2,699.3	2,697.3	9.6	9.6	-137.75	48.9	-50.8	103.4	84.3	19.12	5.410		
2,800.0	2,795.8	2,799.0	2,796.6	10.0	9.9	-137.50	57.4	-49.2	111.8	92.0	19.84	5.636		
2,900.0	2,895.0	2,898.6	2,895.8	10.3	10.3	-137.28	65.9	-47.6	120.3	99.7	20.57	5.846		
3,000.0	2,994.3	2,998.2	2,995.1	10.7	10.7	-137.08	74.5	-46.0	128.7	107.4	21.30	6.040		
3,100.0	3,093.5	3,097.9	3,094.3	11.1	11.0	-136.92	83.0	-44.4	137.1	115.0	22.03	6.222		
3,200.0	3,192.8	3,197.5	3,193.6	11.5	11.4	-136.77	91.5	-42.8	145.5	122.7	22.77	6.390		
3,300.0	3,292.0	3,297.2	3,292.9	11.8	11.8	-136.64	100.1	-41.2	153.9	130.4	23.50	6.548		
3,400.0	3,391.3	3,396.8	3,392.1	12.2	12.1	-136.52	108.6	-39.6	162.3	138.1	24.24	6.696		
3,500.0	3,490.6	3,496.5	3,491.4	12.6	12.5	-136.41	117.1	-38.0	170.8	145.8	24.98	6.835		
3,600.0	3,589.8	3,596.1	3,590.7	13.0	12.9	-136.31	125.7	-36.4	179.2	153.4	25.72	6.965		
3,700.0	3,689.1	3,695.8	3,689.9	13.4	13.3	-136.23	134.2	-34.8	187.6	161.1	26.47	7.088		
3,800.0	3,788.3	3,795.4	3,789.2	13.8	13.6	-136.14	142.7	-33.2	196.0	168.8	27.21	7.204		
3,900.0	3,887.6	3,895.0	3,888.5	14.2	14.0	-136.07	151.3	-31.6	204.4	176.5	27.96	7.313		
4,000.0	3,986.8	3,994.4	3,987.5	14.6	14.4	-136.29	158.8	-30.2	212.9	184.2	28.70	7.419		
4,100.0	4,086.1	4,093.5	4,086.6	14.9	14.7	-137.36	162.9	-29.4	221.6	192.2	29.42	7.531		
4,200.0	4,185.3	4,192.4	4,185.4	15.3	15.1	-139.17	163.8	-29.2	230.6	200.5	30.13	7.654		
4,300.0	4,284.6	4,291.7	4,284.7	15.7	15.4	-141.06	163.8	-29.2	240.0	209.2	30.84	7.783		
4,400.0	4,383.8	4,390.9	4,383.9	16.1	15.8	-142.82	163.8	-29.2	249.6	218.1	31.54	7.914		
4,500.0	4,483.1	4,490.2	4,483.2	16.5	16.1	-144.44	163.8	-29.2	259.5	227.2	32.25	8.045		
4,600.0	4,582.4	4,589.4	4,582.5	16.9	16.5	-145.94	163.8	-29.2	269.5	236.5	32.96	8.177		
4,700.0	4,681.6	4,688.7	4,681.7	17.3	16.8	-147.34	163.8	-29.2	279.7	246.0	33.67	8.308		
4,800.0	4,780.9	4,787.9	4,781.0	17.7	17.2	-148.64	163.8	-29.2	290.1	255.7	34.38	8.438		
4,900.0	4,880.1	4,887.2	4,880.2	18.1	17.5	-149.84	163.8	-29.2	300.5	265.5	35.08	8.566		
5,000.0	4,979.4	4,986.5	4,979.5	18.5	17.9	-150.97	163.8	-29.2	311.2	275.4	35.79	8.693		
5,037.1	5,016.2	5,023.3	5,016.3	18.6	18.0	-151.37	163.8	-29.2	315.1	279.1	36.06	8.740		
5,100.0	5,078.7	5,085.8	5,078.8	18.9	18.2	-152.02	163.8	-29.2	321.3	284.8	36.50	8.801		
5,200.0	5,178.4	5,185.4	5,178.5	19.3	18.6	-152.76	163.8	-29.2	328.6	291.4	37.21	8.831		
5,300.0	5,278.2	5,285.3	5,278.3	19.6	18.9	-153.18	163.8	-29.2	332.9	295.0	37.92	8.778		
5,387.1	5,365.4	5,372.4	5,365.5	19.9	19.3	-98.95	163.8	-29.2	334.1	295.5	38.54	8.669		
5,400.0	5,378.2	5,385.3	5,378.3	20.0	19.3	-98.95	163.8	-29.2	334.1	295.4	38.63	8.648		
5,500.0	5,478.2	5,485.3	5,478.3	20.3	19.7	-98.95	163.8	-29.2	334.1	294.7	39.33	8.494		
5,600.0	5,578.2	5,585.3	5,578.3	20.6	20.0	-98.95	163.8	-29.2	334.1	294.0	40.04	8.344		
5,700.0	5,678.2	5,685.3	5,678.3	21.0	20.4	-98.95	163.8	-29.2	334.1	293.3	40.74	8.200		
5,800.0	5,778.2	5,785.3	5,778.3	21.3	20.7	-98.95	163.8	-29.2	334.1	292.6	41.45	8.060		
5,900.0	5,878.2	5,885.3	5,878.3	21.7	21.1	-98.95	163.8	-29.2	334.1	291.9	42.15	7.925		
6,000.0	5,978.2	5,985.3	5,978.3	22.0	21.4	-98.95	163.8	-29.2	334.1	291.2	42.86	7.795		
6,100.0	6,078.2	6,085.3	6,078.3	22.4	21.8	-98.95	163.8	-29.2	334.1	290.5	43.57	7.668		
6,200.0	6,178.2	6,185.3	6,178.3	22.7	22.1	-98.95	163.8	-29.2	334.1	289.8	44.27	7.546		
6,300.0	6,278.2	6,285.3	6,278.3	23.0	22.5	-98.95	163.8	-29.2	334.1	289.1	44.98	7.427		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 112H - OWB - PWP0													Offset Site Error:	0.0 usft	
Survey Program:		0-MWD		Offset			Semi Major Axis		Offset Wellbore Centre		Rule Assigned:			Offset Well Error:	0.0 usft
Reference	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance						
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
6,400.0	6,378.2	6,385.3	6,378.3	23.4	22.9	-98.95	163.8	-29.2	334.1	288.4	45.69	7.312			
6,500.0	6,478.2	6,485.3	6,478.3	23.7	23.2	-98.95	163.8	-29.2	334.1	287.7	46.40	7.200			
6,600.0	6,578.2	6,585.3	6,578.3	24.1	23.6	-98.95	163.8	-29.2	334.1	287.0	47.10	7.092			
6,700.0	6,678.2	6,685.3	6,678.3	24.4	23.9	-98.95	163.8	-29.2	334.1	286.3	47.81	6.987			
6,800.0	6,778.2	6,785.3	6,778.3	24.8	24.3	-98.95	163.8	-29.2	334.1	285.5	48.52	6.885			
6,900.0	6,878.2	6,885.3	6,878.3	25.1	24.6	-98.95	163.8	-29.2	334.1	284.8	49.23	6.786			
7,000.0	6,978.2	6,985.3	6,978.3	25.5	25.0	-98.95	163.8	-29.2	334.1	284.1	49.94	6.690			
7,100.0	7,078.2	7,085.3	7,078.3	25.8	25.4	-98.95	163.8	-29.2	334.1	283.4	50.65	6.596			
7,200.0	7,178.2	7,185.3	7,178.3	26.2	25.7	-98.95	163.8	-29.2	334.1	282.7	51.36	6.505			
7,300.0	7,278.2	7,285.3	7,278.3	26.5	26.1	-98.95	163.8	-29.2	334.1	282.0	52.07	6.416			
7,400.0	7,378.2	7,385.3	7,378.3	26.9	26.4	-98.95	163.8	-29.2	334.1	281.3	52.78	6.330			
7,500.0	7,478.2	7,485.3	7,478.3	27.2	26.8	-98.95	163.8	-29.2	334.1	280.6	53.49	6.246			
7,600.0	7,578.2	7,585.3	7,578.3	27.6	27.1	-98.95	163.8	-29.2	334.1	279.9	54.20	6.164			
7,700.0	7,678.2	7,685.3	7,678.3	27.9	27.5	-98.95	163.8	-29.2	334.1	279.2	54.91	6.084			
7,800.0	7,778.2	7,785.3	7,778.3	28.3	27.8	-98.95	163.8	-29.2	334.1	278.4	55.62	6.006			
7,900.0	7,878.2	7,885.3	7,878.3	28.6	28.2	-98.95	163.8	-29.2	334.1	277.7	56.33	5.931			
8,000.0	7,978.2	7,985.3	7,978.3	29.0	28.6	-98.95	163.8	-29.2	334.1	277.0	57.04	5.857			
8,100.0	8,078.2	8,085.3	8,078.3	29.3	28.9	-98.95	163.8	-29.2	334.1	276.3	57.75	5.785			
8,200.0	8,178.2	8,185.3	8,178.3	29.7	29.3	-98.95	163.8	-29.2	334.1	275.6	58.46	5.714			
8,300.0	8,278.2	8,285.3	8,278.3	30.0	29.6	-98.95	163.8	-29.2	334.1	274.9	59.17	5.646			
8,400.0	8,378.2	8,385.3	8,378.3	30.4	30.0	-98.95	163.8	-29.2	334.1	274.2	59.88	5.578			
8,410.4	8,388.6	8,395.7	8,388.7	30.4	30.0	-98.95	163.8	-29.2	334.1	274.1	59.96	5.572			
8,500.0	8,478.2	8,483.8	8,476.8	30.7	30.3	-98.99	163.6	-29.2	334.1	273.5	60.58	5.515			
8,600.0	8,578.2	8,572.7	8,564.9	31.1	30.6	-100.83	152.7	-29.1	336.2	275.1	61.12	5.500			
8,700.0	8,678.2	8,655.0	8,643.4	31.4	30.8	-104.87	128.3	-29.0	343.0	281.6	61.40	5.586			
8,800.0	8,778.2	8,725.0	8,706.0	31.8	31.0	-109.81	97.1	-28.8	357.7	296.6	61.05	5.859			
8,900.0	8,878.2	8,788.3	8,758.1	32.1	31.2	-115.13	61.3	-28.6	383.1	323.1	60.00	6.386			
9,000.0	8,978.2	8,839.2	8,796.4	32.5	31.3	-119.75	27.7	-28.4	420.5	362.4	58.07	7.242			
9,100.0	9,078.2	8,881.4	8,825.2	32.8	31.4	-123.64	-3.1	-28.2	469.3	413.6	55.64	8.434			
9,200.0	9,178.2	8,916.3	8,846.9	33.2	31.4	-126.83	-30.4	-28.0	527.8	474.7	53.08	9.943			
9,300.0	9,278.2	8,950.0	8,865.9	33.5	31.5	-129.83	-58.2	-27.8	594.3	543.4	50.86	11.685			
9,400.0	9,378.2	8,975.0	8,878.7	33.9	31.6	-131.98	-79.7	-27.7	666.9	618.2	48.74	13.685			
9,500.0	9,478.2	8,990.8	8,886.3	34.2	31.6	-133.30	-93.6	-27.6	744.4	697.6	46.75	15.924			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 113H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.1	0.1	0.0	0.0	89.66	0.2	30.0	30.0					
100.0	100.0	100.1	100.1	0.3	0.3	89.66	0.2	30.0	30.0	29.5	0.50	59.736		
200.0	200.0	200.1	200.1	0.6	0.6	89.66	0.2	30.0	30.0	28.8	1.22	24.608		
300.0	300.0	300.1	300.1	1.0	1.0	89.66	0.2	30.0	30.0	28.1	1.94	15.495		
400.0	400.0	400.1	400.1	1.3	1.3	89.66	0.2	30.0	30.0	27.3	2.65	11.308		
500.0	500.0	500.1	500.1	1.7	1.7	89.66	0.2	30.0	30.0	26.6	3.37	8.902		
600.0	600.0	600.1	600.1	2.0	2.0	89.66	0.2	30.0	30.0	25.9	4.09	7.341		
700.0	700.0	700.1	700.1	2.4	2.4	89.66	0.2	30.0	30.0	25.2	4.80	6.245		
800.0	800.0	800.1	800.1	2.8	2.8	89.66	0.2	30.0	30.0	24.5	5.52	5.434		
900.0	900.0	900.1	900.1	3.1	3.1	89.66	0.2	30.0	30.0	23.8	6.24	4.810		
1,000.0	1,000.0	1,000.1	1,000.1	3.5	3.5	89.66	0.2	30.0	30.0	23.0	6.95	4.314		
1,100.0	1,100.0	1,100.1	1,100.1	3.8	3.8	89.66	0.2	30.0	30.0	22.3	7.67	3.911		
1,200.0	1,200.0	1,200.1	1,200.1	4.2	4.2	89.66	0.2	30.0	30.0	21.6	8.39	3.576		
1,300.0	1,300.0	1,300.1	1,300.1	4.6	4.6	89.66	0.2	30.0	30.0	20.9	9.11	3.295		
1,400.0	1,400.0	1,400.1	1,400.1	4.9	4.9	89.66	0.2	30.0	30.0	20.2	9.82	3.054		
1,500.0	1,500.0	1,500.1	1,500.1	5.3	5.3	89.66	0.2	30.0	30.0	19.5	10.54	2.847		
1,600.0	1,600.0	1,600.1	1,600.1	5.6	5.6	89.66	0.2	30.0	30.0	18.7	11.26	2.665		
1,700.0	1,700.0	1,700.1	1,700.1	6.0	6.0	89.66	0.2	30.0	30.0	18.0	11.97	2.506		
1,800.0	1,800.0	1,800.1	1,800.1	6.3	6.3	89.66	0.2	30.0	30.0	17.3	12.69	2.364		
1,900.0	1,900.0	1,900.1	1,900.1	6.7	6.7	89.66	0.2	30.0	30.0	16.6	13.41	2.238		
1,966.6	1,966.6	1,966.7	1,966.7	6.9	6.9	89.66	0.2	30.0	30.0	16.1	13.88	2.161 CC		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	89.66	0.2	30.0	30.0	15.9	14.12	2.124		
2,100.0	2,100.0	2,099.1	2,099.1	7.4	7.4	36.65	0.5	31.7	30.3	15.5	14.82	2.044 ES		
2,200.0	2,199.8	2,198.0	2,197.9	7.8	7.8	40.50	1.4	36.7	31.3	15.8	15.49	2.018 SF		
2,300.0	2,299.5	2,296.9	2,296.4	8.1	8.1	46.37	2.9	45.1	33.1	17.0	16.15	2.052		
2,350.0	2,349.1	2,346.3	2,345.4	8.3	8.3	49.80	3.8	50.6	34.5	18.1	16.48	2.096		
2,400.0	2,398.8	2,395.7	2,394.4	8.5	8.4	52.90	5.0	56.9	36.6	19.7	16.81	2.175		
2,500.0	2,498.0	2,494.2	2,491.8	8.8	8.8	56.31	7.6	71.9	43.0	25.6	17.46	2.465		
2,600.0	2,597.3	2,592.4	2,588.2	9.2	9.2	56.77	10.9	90.1	52.5	34.4	18.10	2.902		
2,700.0	2,696.5	2,691.6	2,685.3	9.6	9.6	56.16	14.5	110.4	63.7	44.9	18.81	3.387		
2,800.0	2,795.8	2,791.0	2,782.5	10.0	9.9	55.73	18.1	130.7	74.9	55.4	19.53	3.835		
2,900.0	2,895.0	2,890.4	2,879.7	10.3	10.4	55.42	21.7	151.1	86.1	65.8	20.26	4.250		
3,000.0	2,994.3	2,989.7	2,976.9	10.7	10.8	55.17	25.3	171.4	97.3	76.3	20.99	4.635		
3,100.0	3,093.5	3,089.1	3,074.1	11.1	11.2	54.98	28.9	191.8	108.5	86.7	21.72	4.993		
3,200.0	3,192.8	3,188.5	3,171.3	11.5	11.6	54.82	32.6	212.1	119.7	97.2	22.47	5.327		
3,300.0	3,292.0	3,287.9	3,268.5	11.8	12.0	54.69	36.2	232.4	130.9	107.6	23.21	5.638		
3,400.0	3,391.3	3,387.2	3,365.6	12.2	12.4	54.58	39.8	252.8	142.1	118.1	23.96	5.929		
3,500.0	3,490.6	3,486.6	3,462.8	12.6	12.9	54.48	43.4	273.1	153.2	128.5	24.71	6.202		
3,600.0	3,589.8	3,586.0	3,560.0	13.0	13.3	54.40	47.0	293.5	164.4	139.0	25.46	6.458		
3,700.0	3,689.1	3,685.3	3,657.2	13.4	13.8	54.33	50.6	313.8	175.6	149.4	26.22	6.699		
3,800.0	3,788.3	3,784.7	3,754.4	13.8	14.2	54.27	54.3	334.1	186.8	159.9	26.98	6.926		
3,900.0	3,887.6	3,884.1	3,851.6	14.2	14.7	54.21	57.9	354.5	198.0	170.3	27.74	7.139		
4,000.0	3,986.8	3,983.5	3,948.8	14.6	15.1	54.16	61.5	374.8	209.2	180.7	28.50	7.341		
4,100.0	4,086.1	4,082.8	4,046.0	14.9	15.6	54.12	65.1	395.2	220.4	191.2	29.26	7.532		
4,200.0	4,185.3	4,182.2	4,143.2	15.3	16.0	54.08	68.7	415.5	231.6	201.6	30.03	7.712		
4,300.0	4,284.6	4,281.6	4,240.4	15.7	16.5	54.04	72.3	435.9	242.8	212.0	30.80	7.884		
4,400.0	4,383.8	4,380.9	4,337.6	16.1	16.9	54.01	76.0	456.2	254.0	222.4	31.57	8.046		
4,500.0	4,483.1	4,480.3	4,434.8	16.5	17.4	53.98	79.6	476.5	265.2	232.9	32.34	8.201		
4,600.0	4,582.4	4,579.7	4,532.0	16.9	17.8	53.95	83.2	496.9	276.4	243.3	33.11	8.348		
4,700.0	4,681.6	4,679.1	4,629.2	17.3	18.3	53.93	86.8	517.2	287.6	253.7	33.88	8.488		
4,800.0	4,780.9	4,778.4	4,726.4	17.7	18.8	53.90	90.4	537.6	298.8	264.1	34.66	8.621		
4,900.0	4,880.1	4,877.8	4,823.6	18.1	19.2	53.88	94.0	557.9	310.0	274.6	35.43	8.749		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 113H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)		Ellipses (usft)			
5,000.0	4,979.4	4,977.2	4,920.8	18.5	19.7	53.86	97.7	578.2	321.2	285.0	36.21	8.870	
5,037.1	5,016.2	5,014.1	4,956.9	18.6	19.9	53.85	99.0	585.8	325.3	288.8	36.50	8.914	
5,100.0	5,078.7	5,076.5	5,018.0	18.9	20.2	53.86	101.3	598.6	332.8	295.8	36.98	8.999	
5,200.0	5,178.4	5,175.5	5,114.9	19.3	20.6	53.54	104.9	618.8	346.3	308.6	37.72	9.181	
5,300.0	5,278.2	5,274.1	5,211.3	19.6	21.1	52.84	108.5	639.0	361.9	323.5	38.43	9.419	
5,387.1	5,365.4	5,359.6	5,294.9	19.9	21.5	106.33	111.6	656.5	377.4	338.3	39.02	9.671	
5,400.0	5,378.2	5,372.2	5,307.2	20.0	21.6	106.15	112.0	659.1	379.8	340.7	39.11	9.711	
5,500.0	5,478.2	5,470.0	5,402.9	20.3	22.0	104.84	115.6	679.1	398.6	358.8	39.77	10.021	
5,600.0	5,578.2	5,567.8	5,498.6	20.6	22.5	103.64	119.1	699.1	417.6	377.2	40.45	10.325	
5,700.0	5,678.2	5,665.6	5,594.2	21.0	22.9	102.54	122.7	719.2	436.8	395.7	41.13	10.621	
5,800.0	5,778.2	5,763.4	5,689.9	21.3	23.4	101.54	126.3	739.2	456.1	414.3	41.81	10.909	
5,900.0	5,878.2	5,861.2	5,785.6	21.7	23.9	100.62	129.8	759.2	475.6	433.1	42.50	11.191	
6,000.0	5,978.2	5,959.0	5,881.3	22.0	24.3	99.77	133.4	779.2	495.1	451.9	43.18	11.465	
6,100.0	6,078.2	6,056.9	5,976.9	22.4	24.8	98.99	136.9	799.3	514.8	470.9	43.88	11.732	
6,200.0	6,178.2	6,154.7	6,072.6	22.7	25.3	98.26	140.5	819.3	534.5	489.9	44.57	11.992	
6,300.0	6,278.2	6,252.5	6,168.3	23.0	25.7	97.59	144.1	839.3	554.3	509.0	45.27	12.245	
6,400.0	6,378.2	6,350.3	6,264.0	23.4	26.2	96.96	147.6	859.3	574.2	528.2	45.97	12.491	
6,500.0	6,478.2	6,448.1	6,359.7	23.7	26.7	96.37	151.2	879.4	594.1	547.5	46.67	12.731	
6,600.0	6,578.2	6,545.9	6,455.3	24.1	27.1	95.82	154.7	899.4	614.1	566.8	47.37	12.964	
6,700.0	6,678.2	6,643.8	6,551.0	24.4	27.6	95.31	158.3	919.4	634.2	586.1	48.08	13.191	
6,800.0	6,778.2	6,766.8	6,671.8	24.8	28.2	94.76	162.4	942.4	652.6	603.6	49.02	13.312	
6,900.0	6,878.2	6,894.1	6,797.7	25.1	28.7	94.34	165.7	960.8	666.8	616.9	49.93	13.355	
7,000.0	6,978.2	7,022.9	6,925.8	25.5	29.2	94.07	168.0	973.8	676.7	626.0	50.76	13.333	
7,100.0	7,078.2	7,152.5	7,055.3	25.8	29.7	93.91	169.3	981.1	682.3	630.8	51.50	13.248	
7,200.0	7,178.2	7,275.6	7,178.3	26.2	30.1	93.88	169.6	982.8	683.6	631.4	52.17	13.103	
7,300.0	7,278.2	7,375.6	7,278.3	26.5	30.4	93.88	169.6	982.8	683.6	630.7	52.86	12.933	
7,400.0	7,378.2	7,475.6	7,378.3	26.9	30.7	93.88	169.6	982.8	683.6	630.1	53.54	12.767	
7,500.0	7,478.2	7,575.6	7,478.3	27.2	31.0	93.88	169.6	982.8	683.6	629.4	54.23	12.606	
7,600.0	7,578.2	7,675.6	7,578.3	27.6	31.3	93.88	169.6	982.8	683.6	628.7	54.92	12.448	
7,700.0	7,678.2	7,775.6	7,678.3	27.9	31.6	93.88	169.6	982.8	683.6	628.0	55.60	12.294	
7,800.0	7,778.2	7,875.6	7,778.3	28.3	31.9	93.88	169.6	982.8	683.6	627.3	56.29	12.143	
7,900.0	7,878.2	7,975.6	7,878.3	28.6	32.2	93.88	169.6	982.8	683.6	626.6	56.98	11.997	
8,000.0	7,978.2	8,075.6	7,978.3	29.0	32.5	93.88	169.6	982.8	683.6	625.9	57.67	11.853	
8,100.0	8,078.2	8,175.6	8,078.3	29.3	32.8	93.88	169.6	982.8	683.6	625.2	58.36	11.713	
8,200.0	8,178.2	8,275.6	8,178.3	29.7	33.1	93.88	169.6	982.8	683.6	624.5	59.06	11.576	
8,300.0	8,278.2	8,375.6	8,278.3	30.0	33.4	93.88	169.6	982.8	683.6	623.8	59.75	11.441	
8,400.0	8,378.2	8,475.6	8,378.3	30.4	33.7	93.88	169.6	982.8	683.6	623.2	60.44	11.310	
8,500.0	8,478.2	8,575.6	8,478.3	30.7	34.1	93.88	169.6	982.8	683.6	622.5	61.13	11.182	
8,600.0	8,578.2	8,668.5	8,571.0	31.1	34.3	94.23	165.3	982.8	684.0	622.1	61.83	11.062	
8,700.0	8,678.2	8,754.3	8,654.6	31.4	34.6	95.81	146.4	982.9	686.1	623.6	62.54	10.971	
8,800.0	8,778.2	8,831.2	8,725.5	31.8	34.7	98.25	116.9	983.1	691.5	628.3	63.19	10.943	
8,900.0	8,878.2	8,900.0	8,784.2	32.1	34.9	101.16	81.2	983.3	702.0	638.3	63.69	11.023	
9,000.0	8,978.2	8,950.0	8,823.4	32.5	35.0	103.64	50.1	983.5	719.4	655.6	63.78	11.279	
9,100.0	9,078.2	9,000.0	8,859.1	32.8	35.0	106.37	15.2	983.7	744.8	681.2	63.54	11.721	
9,200.0	9,178.2	9,036.6	8,882.8	33.2	35.1	108.50	-12.7	983.9	778.6	715.8	62.79	12.400	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 222H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: 0-MWD									Rule Assigned:				Offset Well Error: 0.0 usft		
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance						Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-90.32	-0.2	-30.0	30.0						
100.0	100.0	99.8	99.8	0.3	0.3	-90.32	-0.2	-30.0	30.0	29.5	0.50	59.702			
200.0	200.0	199.8	199.8	0.6	0.6	-90.32	-0.2	-30.0	30.0	28.8	1.22	24.606			
300.0	300.0	299.8	299.8	1.0	1.0	-90.32	-0.2	-30.0	30.0	28.1	1.94	15.495			
400.0	400.0	399.8	399.8	1.3	1.3	-90.32	-0.2	-30.0	30.0	27.3	2.65	11.308			
500.0	500.0	499.8	499.8	1.7	1.7	-90.32	-0.2	-30.0	30.0	26.6	3.37	8.902			
600.0	600.0	599.8	599.8	2.0	2.0	-90.32	-0.2	-30.0	30.0	25.9	4.09	7.340			
700.0	700.0	699.8	699.8	2.4	2.4	-90.32	-0.2	-30.0	30.0	25.2	4.80	6.245			
800.0	800.0	799.8	799.8	2.8	2.8	-90.32	-0.2	-30.0	30.0	24.5	5.52	5.434			
900.0	900.0	899.8	899.8	3.1	3.1	-90.32	-0.2	-30.0	30.0	23.8	6.24	4.809			
1,000.0	1,000.0	999.8	999.8	3.5	3.5	-90.32	-0.2	-30.0	30.0	23.0	6.95	4.314			
1,100.0	1,100.0	1,099.8	1,099.8	3.8	3.8	-90.32	-0.2	-30.0	30.0	22.3	7.67	3.911			
1,200.0	1,200.0	1,199.8	1,199.8	4.2	4.2	-90.32	-0.2	-30.0	30.0	21.6	8.39	3.576			
1,300.0	1,300.0	1,299.8	1,299.8	4.6	4.6	-90.32	-0.2	-30.0	30.0	20.9	9.11	3.295			
1,400.0	1,400.0	1,399.8	1,399.8	4.9	4.9	-90.32	-0.2	-30.0	30.0	20.2	9.82	3.054			
1,500.0	1,500.0	1,499.8	1,499.8	5.3	5.3	-90.32	-0.2	-30.0	30.0	19.5	10.54	2.846			
1,600.0	1,600.0	1,599.8	1,599.8	5.6	5.6	-90.32	-0.2	-30.0	30.0	18.7	11.26	2.665			
1,700.0	1,700.0	1,699.8	1,699.8	6.0	6.0	-90.32	-0.2	-30.0	30.0	18.0	11.97	2.506			
1,800.0	1,800.0	1,799.8	1,799.8	6.3	6.3	-90.32	-0.2	-30.0	30.0	17.3	12.69	2.364			
1,900.0	1,900.0	1,899.8	1,899.8	6.7	6.7	-90.32	-0.2	-30.0	30.0	16.6	13.41	2.238			
2,000.0	2,000.0	1,999.8	1,999.8	7.1	7.1	-90.32	-0.2	-30.0	30.0	15.9	14.12	2.124 CC, ES			
2,100.0	2,100.0	2,099.8	2,099.8	7.4	7.4	-146.49	-0.2	-30.0	31.4	16.6	14.84	2.119			
2,200.0	2,199.8	2,199.6	2,199.6	7.8	7.8	-151.06	-0.2	-30.0	35.9	20.4	15.55	2.311			
2,300.0	2,299.5	2,299.3	2,299.3	8.1	8.1	-156.52	-0.2	-30.0	43.8	27.5	16.25	2.692			
2,350.0	2,349.1	2,348.9	2,348.9	8.3	8.3	-159.12	-0.2	-30.0	49.0	32.4	16.61	2.950			
2,400.0	2,398.8	2,398.6	2,398.6	8.5	8.5	-161.39	-0.2	-30.0	54.7	37.8	16.96	3.227			
2,500.0	2,498.0	2,497.8	2,497.8	8.8	8.8	-164.75	-0.2	-30.0	66.4	48.7	17.67	3.759			
2,600.0	2,597.3	2,597.1	2,597.1	9.2	9.2	-167.10	-0.2	-30.0	78.2	59.9	18.38	4.258			
2,700.0	2,696.5	2,696.3	2,696.3	9.6	9.6	-168.82	-0.2	-30.0	90.2	71.1	19.08	4.725			
2,800.0	2,795.8	2,795.6	2,795.6	10.0	9.9	-170.15	-0.2	-30.0	102.2	82.4	19.79	5.161			
2,900.0	2,895.0	2,894.8	2,894.8	10.3	10.3	-171.20	-0.2	-30.0	114.2	93.7	20.50	5.569			
3,000.0	2,994.3	2,994.1	2,994.1	10.7	10.6	-172.04	-0.2	-30.0	126.2	105.0	21.22	5.950			
3,100.0	3,093.5	3,097.9	3,097.9	11.1	11.0	-172.91	0.3	-28.4	136.8	114.8	21.94	6.234			
3,200.0	3,192.8	3,202.7	3,202.5	11.5	11.4	-173.99	1.9	-23.1	143.8	121.1	22.63	6.352			
3,300.0	3,292.0	3,307.8	3,307.2	11.8	11.7	-175.32	4.6	-14.2	147.3	124.0	23.31	6.317			
3,400.0	3,391.3	3,409.8	3,408.5	12.2	12.1	-176.86	8.1	-2.6	147.9	123.9	24.00	6.163			
3,500.0	3,490.6	3,509.7	3,507.6	12.6	12.4	-178.39	11.6	9.1	148.4	123.7	24.72	6.005			
3,600.0	3,589.8	3,609.6	3,606.8	13.0	12.8	-179.91	15.2	20.7	149.0	123.6	25.43	5.859			
3,700.0	3,689.1	3,709.5	3,706.0	13.4	13.2	-178.59	18.7	32.4	149.7	123.6	26.15	5.725			
3,800.0	3,788.3	3,809.5	3,805.2	13.8	13.5	-177.10	22.2	44.0	150.5	123.6	26.87	5.601			
3,900.0	3,887.6	3,909.4	3,904.3	14.2	13.9	-175.62	25.7	55.7	151.4	123.8	27.59	5.486			
4,000.0	3,986.8	4,009.3	4,003.5	14.6	14.3	-174.17	29.3	67.4	152.4	124.1	28.32	5.381			
4,100.0	4,086.1	4,109.2	4,102.7	14.9	14.6	-172.73	32.8	79.0	153.5	124.4	29.05	5.283			
4,200.0	4,185.3	4,209.1	4,201.9	15.3	15.0	-171.32	36.3	90.7	154.7	124.9	29.78	5.193			
4,300.0	4,284.6	4,309.1	4,301.1	15.7	15.4	-169.92	39.8	102.3	156.0	125.4	30.52	5.110			
4,400.0	4,383.8	4,409.0	4,400.2	16.1	15.8	-168.55	43.4	114.0	157.3	126.1	31.26	5.033			
4,500.0	4,483.1	4,508.9	4,499.4	16.5	16.1	-167.21	46.9	125.6	158.8	126.8	32.00	4.962			
4,600.0	4,582.4	4,608.8	4,598.6	16.9	16.5	-165.89	50.4	137.3	160.3	127.6	32.75	4.896			
4,700.0	4,681.6	4,708.8	4,697.8	17.3	16.9	-164.60	53.9	148.9	162.0	128.5	33.49	4.836			
4,800.0	4,780.9	4,808.7	4,796.9	17.7	17.3	-163.33	57.5	160.6	163.7	129.4	34.24	4.780			
4,900.0	4,880.1	4,908.6	4,896.1	18.1	17.7	-162.09	61.0	172.3	165.5	130.5	35.00	4.728			
5,000.0	4,979.4	5,008.5	4,995.3	18.5	18.0	-160.88	64.5	183.9	167.3	131.6	35.75	4.680			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 222H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Rule Assigned: Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,037.1	5,016.2	5,045.6	5,032.1	18.6	18.2	160.43	65.8	188.2	168.0	132.0	168.0	36.04	4.663	
5,100.0	5,078.7	5,108.4	5,094.5	18.9	18.4	159.61	68.0	195.6	168.6	132.1	168.0	36.51	4.618	
5,200.0	5,178.4	5,208.3	5,193.6	19.3	18.8	157.94	71.5	207.2	167.0	129.7	167.0	37.28	4.479	
5,300.0	5,278.2	5,308.0	5,292.5	19.6	19.2	155.73	75.1	218.8	162.3	124.2	162.3	38.05	4.265	
5,387.1	5,365.4	5,394.6	5,378.5	19.9	19.5	-152.45	78.1	229.0	155.9	117.1	155.9	38.73	4.025	
5,400.0	5,378.2	5,407.4	5,391.2	20.0	19.6	-152.86	78.6	230.4	154.8	115.9	154.8	38.83	3.986	
5,500.0	5,478.2	5,506.6	5,489.7	20.3	20.0	-156.28	82.1	242.0	146.5	106.9	146.5	39.62	3.699	
5,600.0	5,578.2	5,605.9	5,588.2	20.6	20.4	-160.09	85.6	253.6	138.9	98.5	138.9	40.42	3.436	
5,700.0	5,678.2	5,705.1	5,686.7	21.0	20.7	-164.31	89.1	265.2	131.9	90.7	131.9	41.24	3.199	
5,800.0	5,778.2	5,804.4	5,785.2	21.3	21.1	-168.97	92.6	276.8	125.8	83.7	125.8	42.06	2.990	
5,900.0	5,878.2	5,902.5	5,882.7	21.7	21.5	-173.66	95.8	287.5	120.8	78.0	120.8	42.87	2.818	
6,000.0	5,978.2	6,000.7	5,980.6	22.0	21.9	-177.24	98.1	295.1	117.9	74.2	117.9	43.64	2.700	
6,100.0	6,078.2	6,099.3	6,079.1	22.4	22.2	-179.39	99.5	299.6	116.4	72.0	116.4	44.38	2.622	
6,200.0	6,178.2	6,198.3	6,178.0	22.7	22.6	-180.00	99.8	300.8	116.0	70.9	116.0	45.07	2.573	
6,300.0	6,278.2	6,298.3	6,278.0	23.0	22.9	-180.00	99.8	300.8	116.0	70.2	116.0	45.76	2.534	
6,400.0	6,378.2	6,398.3	6,378.0	23.4	23.3	-180.00	99.8	300.8	116.0	69.5	116.0	46.46	2.496	
6,500.0	6,478.2	6,498.3	6,478.0	23.7	23.6	-180.00	99.8	300.8	116.0	68.8	116.0	47.15	2.459	
6,600.0	6,578.2	6,598.3	6,578.0	24.1	24.0	-180.00	99.8	300.8	116.0	68.1	116.0	47.85	2.424	
6,700.0	6,678.2	6,698.3	6,678.0	24.4	24.3	-180.00	99.8	300.8	116.0	67.4	116.0	48.54	2.389	
6,800.0	6,778.2	6,798.3	6,778.0	24.8	24.7	-180.00	99.8	300.8	116.0	66.7	116.0	49.24	2.355	
6,900.0	6,878.2	6,898.3	6,878.0	25.1	25.0	-180.00	99.8	300.8	116.0	66.0	116.0	49.94	2.322	
7,000.0	6,978.2	6,998.3	6,978.0	25.5	25.3	-180.00	99.8	300.8	116.0	65.3	116.0	50.64	2.290	
7,100.0	7,078.2	7,098.3	7,078.0	25.8	25.7	-180.00	99.8	300.8	116.0	64.6	116.0	51.33	2.259	
7,200.0	7,178.2	7,198.3	7,178.0	26.2	26.0	-180.00	99.8	300.8	116.0	63.9	116.0	52.03	2.229	
7,300.0	7,278.2	7,298.3	7,278.0	26.5	26.4	-180.00	99.8	300.8	116.0	63.2	116.0	52.73	2.199	
7,400.0	7,378.2	7,398.3	7,378.0	26.9	26.7	-180.00	99.8	300.8	116.0	62.5	116.0	53.43	2.170	
7,500.0	7,478.2	7,498.3	7,478.0	27.2	27.1	-180.00	99.8	300.8	116.0	61.8	116.0	54.13	2.142	
7,600.0	7,578.2	7,598.3	7,578.0	27.6	27.4	-180.00	99.8	300.8	116.0	61.1	116.0	54.83	2.115	
7,700.0	7,678.2	7,698.3	7,678.0	27.9	27.8	-180.00	99.8	300.8	116.0	60.4	116.0	55.53	2.088	
7,800.0	7,778.2	7,798.3	7,778.0	28.3	28.1	-180.00	99.8	300.8	116.0	59.7	116.0	56.23	2.062	
7,900.0	7,878.2	7,898.3	7,878.0	28.6	28.5	-180.00	99.8	300.8	116.0	59.0	116.0	56.94	2.037	
8,000.0	7,978.2	7,998.3	7,978.0	29.0	28.8	-180.00	99.8	300.8	116.0	58.3	116.0	57.64	2.012	
8,100.0	8,078.2	8,098.3	8,078.0	29.3	29.2	-180.00	99.8	300.8	116.0	57.6	116.0	58.34	1.988	
8,200.0	8,178.2	8,198.3	8,178.0	29.7	29.5	-180.00	99.8	300.8	116.0	56.9	116.0	59.04	1.964	
8,300.0	8,278.2	8,298.3	8,278.0	30.0	29.9	-180.00	99.8	300.8	116.0	56.2	116.0	59.75	1.941	
8,400.0	8,378.2	8,398.3	8,378.0	30.4	30.2	-180.00	99.8	300.8	116.0	55.5	116.0	60.45	1.918	
8,500.0	8,478.2	8,498.3	8,478.0	30.7	30.6	-180.00	99.8	300.8	116.0	54.8	116.0	61.15	1.896	
8,600.0	8,578.2	8,598.3	8,578.0	31.1	30.9	-180.00	99.8	300.8	116.0	54.1	116.0	61.86	1.875	
8,700.0	8,678.2	8,698.3	8,678.0	31.4	31.3	-180.00	99.8	300.8	116.0	53.4	116.0	62.56	1.854	
8,800.0	8,778.2	8,798.3	8,778.0	31.8	31.6	-180.00	99.8	300.8	116.0	52.7	116.0	63.27	1.833	
8,900.0	8,878.2	8,898.3	8,878.0	32.1	32.0	-180.00	99.8	300.8	116.0	52.0	116.0	63.97	1.813	
9,000.0	8,978.2	8,998.3	8,978.0	32.5	32.3	-180.00	99.8	300.8	116.0	51.3	116.0	64.68	1.793	
9,100.0	9,078.2	9,098.3	9,078.0	32.8	32.7	-180.00	99.8	300.8	116.0	50.6	116.0	65.38	1.774	
9,200.0	9,178.2	9,198.3	9,178.0	33.2	33.1	-180.00	99.8	300.8	116.0	49.9	116.0	66.09	1.755	
9,300.0	9,278.2	9,298.3	9,278.0	33.5	33.4	-180.00	99.8	300.8	116.0	49.2	116.0	66.79	1.736	
9,400.0	9,378.2	9,398.3	9,378.0	33.9	33.8	-180.00	99.8	300.8	116.0	48.5	116.0	67.50	1.718 SF	
9,500.0	9,478.2	9,480.0	9,459.5	34.2	34.0	179.98	94.4	300.8	122.8	55.4	122.8	67.41	1.822	
9,600.0	9,578.2	9,556.1	9,533.5	34.6	34.3	179.94	77.0	300.9	145.8	79.8	145.8	66.04	2.208	
9,700.0	9,678.2	9,625.0	9,597.3	34.9	34.4	179.89	51.3	301.1	183.3	119.5	183.3	63.78	2.873	
9,800.0	9,778.2	9,685.7	9,650.0	35.3	34.6	179.85	21.2	301.3	232.9	171.8	232.9	61.17	3.808	
9,900.0	9,878.2	9,737.6	9,691.7	35.6	34.7	179.82	-9.6	301.5	292.5	233.9	292.5	58.51	4.998	
10,000.0	9,978.2	9,781.6	9,724.3	36.0	34.8	179.80	-39.2	301.7	359.7	303.7	359.7	56.06	6.417	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 222H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,100.0	10,078.2	9,818.8	9,749.6	36.3	34.9	179.79	-66.4	301.8	433.0	379.1	53.91	8.033		
10,200.0	10,178.2	9,850.0	9,769.2	36.7	34.9	179.77	-90.7	302.0	511.0	459.0	52.06	9.815		
10,300.0	10,278.2	9,875.0	9,783.7	37.1	35.0	179.76	-111.1	302.1	592.7	542.2	50.45	11.748		
10,400.0	10,378.2	9,900.0	9,797.1	37.4	35.0	179.76	-132.2	302.3	677.2	627.9	49.34	13.725		
10,439.3	10,417.5	9,908.2	9,801.2	37.5	35.0	179.75	-139.2	302.3	711.1	662.2	48.93	14.533		
10,450.0	10,428.2	9,910.3	9,802.3	37.6	35.0	0.11	-141.1	302.3	720.3	671.5	48.82	14.756		
10,475.0	10,453.2	9,915.6	9,804.9	37.7	35.0	0.10	-145.7	302.3	741.5	692.9	48.54	15.274		
10,500.0	10,478.1	9,925.0	9,809.3	37.7	35.0	0.09	-154.0	302.4	762.1	713.7	48.43	15.737		
10,525.0	10,502.8	9,925.0	9,809.3	37.8	35.0	0.09	-154.0	302.4	782.1	734.2	47.88	16.333		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: PASKE PROJECT - PAKSE 3 SOUTH FED COM 432H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Offset Well Error:	0.0 usft
Reference	Vertical	Reference	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	(usft)	(usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.1	0.1	0.0	0.0	-90.34	-0.5	-90.0	90.0					
100.0	100.0	100.1	100.1	0.3	0.3	-90.34	-0.5	-90.0	90.0	89.5	0.50	179.182		
200.0	200.0	200.1	200.1	0.6	0.6	-90.34	-0.5	-90.0	90.0	88.8	1.22	73.818		
300.0	300.0	300.1	300.1	1.0	1.0	-90.34	-0.5	-90.0	90.0	88.1	1.94	46.484		
400.0	400.0	400.1	400.1	1.3	1.3	-90.34	-0.5	-90.0	90.0	87.3	2.65	33.923		
500.0	500.0	500.1	500.1	1.7	1.7	-90.34	-0.5	-90.0	90.0	86.6	3.37	26.706		
600.0	600.0	600.1	600.1	2.0	2.0	-90.34	-0.5	-90.0	90.0	85.9	4.09	22.021		
700.0	700.0	700.1	700.1	2.4	2.4	-90.34	-0.5	-90.0	90.0	85.2	4.80	18.735		
800.0	800.0	800.1	800.1	2.8	2.8	-90.34	-0.5	-90.0	90.0	84.5	5.52	16.302		
900.0	900.0	900.1	900.1	3.1	3.1	-90.34	-0.5	-90.0	90.0	83.8	6.24	14.428		
1,000.0	1,000.0	1,000.1	1,000.1	3.5	3.5	-90.34	-0.5	-90.0	90.0	83.0	6.95	12.941		
1,100.0	1,100.0	1,100.1	1,100.1	3.8	3.8	-90.34	-0.5	-90.0	90.0	82.3	7.67	11.732		
1,200.0	1,200.0	1,200.1	1,200.1	4.2	4.2	-90.34	-0.5	-90.0	90.0	81.6	8.39	10.729		
1,300.0	1,300.0	1,300.1	1,300.1	4.6	4.6	-90.34	-0.5	-90.0	90.0	80.9	9.11	9.884		
1,400.0	1,400.0	1,400.1	1,400.1	4.9	4.9	-90.34	-0.5	-90.0	90.0	80.2	9.82	9.163		
1,500.0	1,500.0	1,500.1	1,500.1	5.3	5.3	-90.34	-0.5	-90.0	90.0	79.5	10.54	8.539		
1,600.0	1,600.0	1,600.1	1,600.1	5.6	5.6	-90.34	-0.5	-90.0	90.0	78.7	11.26	7.996		
1,700.0	1,700.0	1,700.1	1,700.1	6.0	6.0	-90.34	-0.5	-90.0	90.0	78.0	11.97	7.517		
1,800.0	1,800.0	1,800.1	1,800.1	6.3	6.3	-90.34	-0.5	-90.0	90.0	77.3	12.69	7.092		
1,900.0	1,900.0	1,900.1	1,900.1	6.7	6.7	-90.34	-0.5	-90.0	90.0	76.6	13.41	6.713		
1,966.6	1,966.6	1,966.7	1,966.7	6.9	6.9	-90.34	-0.5	-90.0	90.0	76.1	13.88	6.482 CC		
2,000.0	2,000.0	2,000.0	2,000.0	7.1	7.1	-90.34	-0.5	-90.0	90.0	75.9	14.12	6.372 ES		
2,100.0	2,100.0	2,097.2	2,097.2	7.4	7.4	-144.85	0.1	-91.5	93.0	78.2	14.82	6.276 SF		
2,200.0	2,199.8	2,193.8	2,193.6	7.8	7.7	-145.29	2.0	-96.0	101.9	86.4	15.49	6.582		
2,300.0	2,299.5	2,289.4	2,288.9	8.1	8.1	-145.85	5.2	-103.4	116.8	100.6	16.14	7.235		
2,350.0	2,349.1	2,336.6	2,335.8	8.3	8.2	-146.14	7.2	-108.2	126.4	109.9	16.46	7.677		
2,400.0	2,398.8	2,383.5	2,382.3	8.5	8.4	-146.44	9.4	-113.6	137.1	120.3	16.77	8.171		
2,500.0	2,498.0	2,476.3	2,474.1	8.8	8.8	-146.54	14.9	-126.4	160.6	143.2	17.39	9.236		
2,600.0	2,597.3	2,571.8	2,568.1	9.2	9.1	-146.31	21.3	-141.6	186.2	168.1	18.05	10.313		
2,700.0	2,696.5	2,668.4	2,663.3	9.6	9.5	-146.13	27.8	-157.0	211.9	193.1	18.74	11.304		
2,800.0	2,795.8	2,765.1	2,758.5	10.0	9.8	-145.98	34.3	-172.5	237.6	218.1	19.44	12.221		
2,900.0	2,895.0	2,861.7	2,853.7	10.3	10.2	-145.87	40.9	-187.9	263.3	243.1	20.14	13.073		
3,000.0	2,994.3	2,958.3	2,948.8	10.7	10.6	-145.77	47.4	-203.4	288.9	268.1	20.84	13.866		
3,100.0	3,093.5	3,055.0	3,044.0	11.1	11.0	-145.69	53.9	-218.9	314.6	293.1	21.54	14.605		
3,200.0	3,192.8	3,151.6	3,139.2	11.5	11.4	-145.62	60.5	-234.3	340.3	318.1	22.25	15.295		
3,300.0	3,292.0	3,248.3	3,234.4	11.8	11.8	-145.56	67.0	-249.8	366.0	343.1	22.96	15.941		
3,400.0	3,391.3	3,344.9	3,329.5	12.2	12.2	-145.51	73.5	-265.2	391.7	368.0	23.67	16.547		
3,500.0	3,490.6	3,441.6	3,424.7	12.6	12.6	-145.46	80.1	-280.7	417.4	393.0	24.39	17.115		
3,600.0	3,589.8	3,538.2	3,519.9	13.0	13.0	-145.43	86.6	-296.1	443.1	418.0	25.10	17.651		
3,700.0	3,689.1	3,634.8	3,615.1	13.4	13.4	-145.39	93.1	-311.6	468.8	443.0	25.82	18.155		
3,800.0	3,788.3	3,731.5	3,710.2	13.8	13.8	-145.36	99.7	-327.1	494.5	467.9	26.54	18.631		
3,900.0	3,887.6	3,828.1	3,805.4	14.2	14.2	-145.33	106.2	-342.5	520.2	492.9	27.26	19.080		
4,000.0	3,986.8	3,924.8	3,900.6	14.6	14.6	-145.30	112.7	-358.0	545.8	517.9	27.98	19.506		
4,100.0	4,086.1	4,021.4	3,995.8	14.9	15.0	-145.28	119.3	-373.4	571.5	542.8	28.71	19.909		
4,200.0	4,185.3	4,118.1	4,090.9	15.3	15.4	-145.26	125.8	-388.9	597.2	567.8	29.43	20.292		
4,300.0	4,284.6	4,214.7	4,186.1	15.7	15.8	-145.24	132.3	-404.4	622.9	592.8	30.16	20.655		
4,400.0	4,383.8	4,311.4	4,281.3	16.1	16.3	-145.22	138.9	-419.8	648.6	617.7	30.88	21.001		
4,500.0	4,483.1	4,408.0	4,376.5	16.5	16.7	-145.20	145.4	-435.3	674.3	642.7	31.61	21.330		
4,600.0	4,582.4	4,504.6	4,471.6	16.9	17.1	-145.19	151.9	-450.7	700.0	667.7	32.34	21.644		
4,700.0	4,681.6	4,601.3	4,566.8	17.3	17.5	-145.17	158.5	-466.2	725.7	692.6	33.07	21.943		
4,800.0	4,780.9	4,697.9	4,662.0	17.7	17.9	-145.16	165.0	-481.6	751.4	717.6	33.80	22.229		
4,900.0	4,880.1	4,794.6	4,757.2	18.1	18.4	-145.15	171.5	-497.1	777.1	742.5	34.53	22.502		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

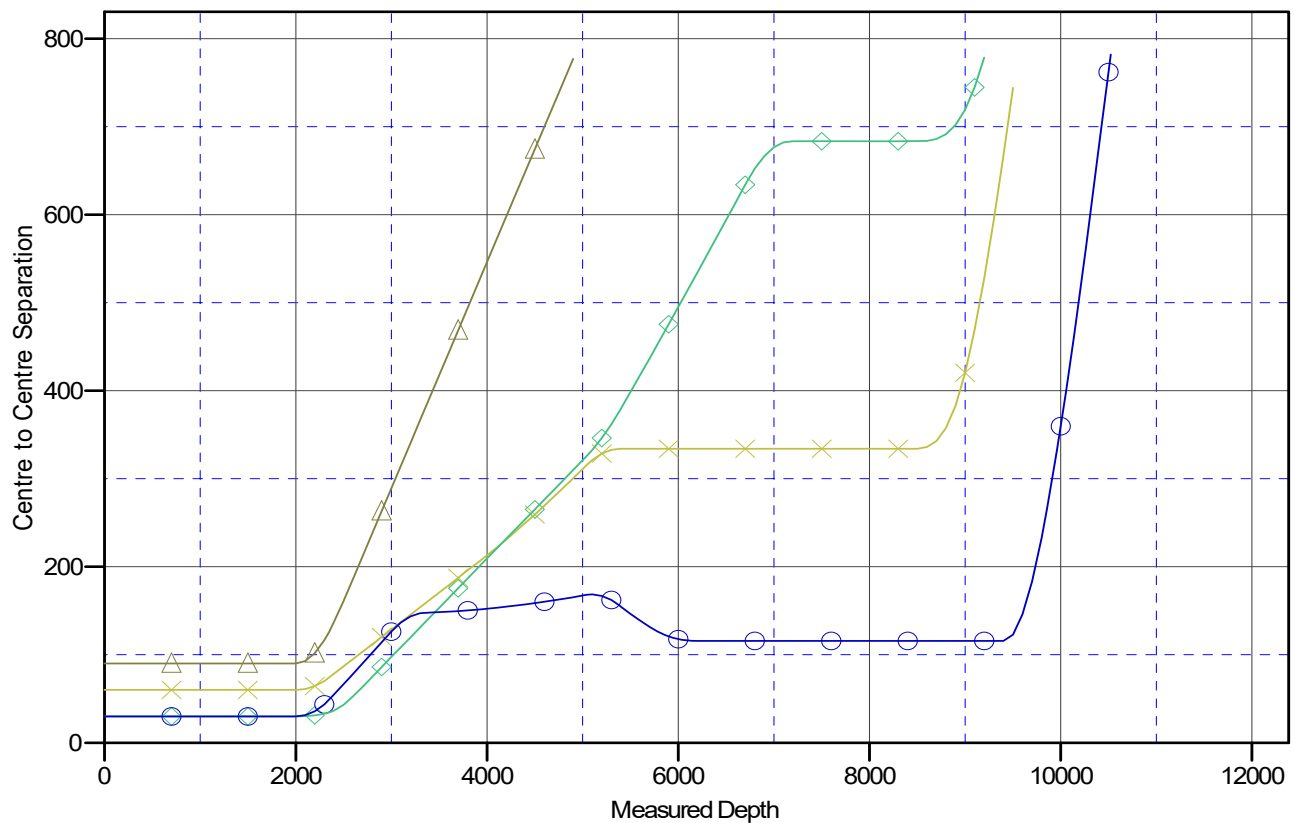
Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3570.2usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: PAKSE 3 SOUTH FED COM 322H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.33°

Ladder Plot



LEGEND

✕ PAKSE3 SOUTH FED COM 112H, OWB/PWP0 V0 ○ PAKSE3 SOUTH FED COM 222H, OWB/PWP0 V0
△ PAKSE3 SOUTH FED COM 113H, OWB/PWP0 V0 △ PAKSE3 SOUTH FED COM 432H, OWB/PWP0 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Permian Resources

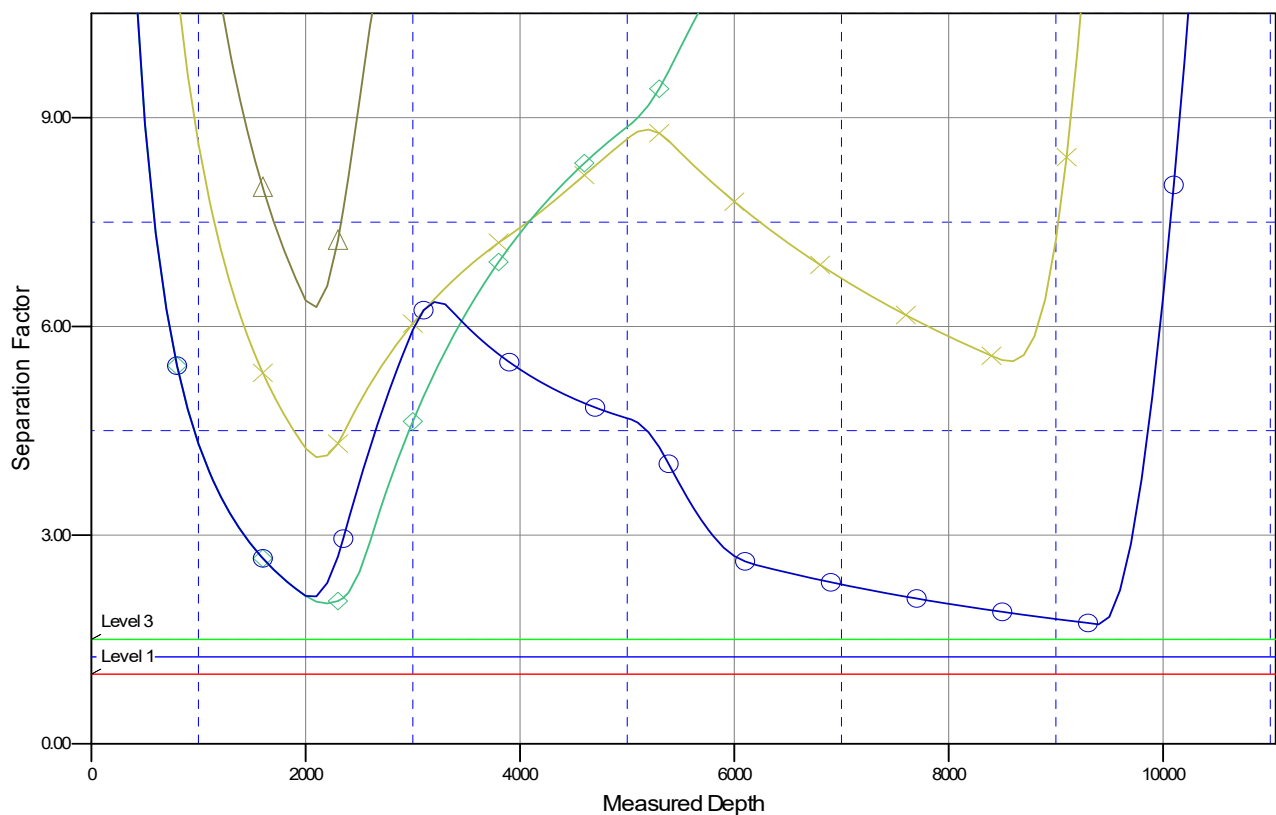
Anticollision Report

Company:	NEW MEXICO	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Project:	(SP) LEA	TVD Reference:	KB @ 3570.2usft
Reference Site:	PASKE PROJECT	MD Reference:	KB @ 3570.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	Compass
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3570.2usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: PAKSE 3 SOUTH FED COM 322H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.33°

Separation Factor Plot



LEGEND



NEW MEXICO

(SP) LEA

PASKE PROJECT

PAKSE 3 SOUTH FED COM 322H

OWB

Plan: PWP0

Standard Planning Report - Geographic

13 February, 2024

Permian Resources
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	(SP) LEA		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		PASKE PROJECT			
Site Position: From:	Map	Northing:	569,891.35 usft	Latitude:	32° 33' 54.721 N
		Easting:	729,667.08 usft	Longitude:	103° 43' 19.273 W
		Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "

Well	PAKSE 3 SOUTH FED COM 322H					
Well Position	+N/-S	0.0 usft	Northing:	569,891.70 usft	Latitude:	32° 33' 54.721 N
	+E/-W	0.0 usft	Easting:	729,727.08 usft	Longitude:	103° 43' 18.572 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,540.2 usft
Grid Convergence:	0.33 °					

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.84	60.53	48,981.67480835

Design	PWP0			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.30

Plan Survey Tool Program	Date 2/13/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	23,860.0 PWP0 (OWB)	MWD	
			OWSG_Rev2_ MWD - Star	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,350.0	7.00	54.34	2,349.1	12.4	17.4	2.00	2.00	0.00	54.34	
5,037.1	7.00	54.34	5,016.2	203.4	283.4	0.00	0.00	0.00	0.00	
5,387.1	0.00	0.00	5,365.4	215.8	300.8	2.00	-2.00	0.00	180.00	
10,439.3	0.00	0.00	10,417.5	215.8	300.8	0.00	0.00	0.00	0.00	
11,189.3	90.00	179.64	10,895.0	-261.7	303.8	12.00	12.00	23.95	179.64	
23,860.0	90.00	179.64	10,895.0	-12,932.1	383.6	0.00	0.00	0.00	0.00	BHL-PAKSE 3 S FC

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
100.0	0.00	0.00	100.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
200.0	0.00	0.00	200.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
300.0	0.00	0.00	300.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
400.0	0.00	0.00	400.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
500.0	0.00	0.00	500.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
600.0	0.00	0.00	600.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
700.0	0.00	0.00	700.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
800.0	0.00	0.00	800.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
900.0	0.00	0.00	900.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	569,891.70	729,727.08	32° 33' 54.721 N	103° 43' 18.572 W
Start Build 2.00									
2,100.0	2.00	54.34	2,100.0	1.0	1.4	569,892.72	729,728.49	32° 33' 54.731 N	103° 43' 18.555 W
2,200.0	4.00	54.34	2,199.8	4.1	5.7	569,895.77	729,732.75	32° 33' 54.761 N	103° 43' 18.506 W
2,300.0	6.00	54.34	2,299.5	9.1	12.8	569,900.85	729,739.83	32° 33' 54.811 N	103° 43' 18.422 W
2,350.0	7.00	54.34	2,349.1	12.4	17.4	569,904.15	729,744.43	32° 33' 54.843 N	103° 43' 18.369 W
Start 2687.1 hold at 2350.0 MD									
2,400.0	7.00	54.34	2,398.8	16.0	22.3	569,907.70	729,749.38	32° 33' 54.878 N	103° 43' 18.310 W
2,500.0	7.00	54.34	2,498.0	23.1	32.2	569,914.81	729,759.28	32° 33' 54.948 N	103° 43' 18.194 W
2,600.0	7.00	54.34	2,597.3	30.2	42.1	569,921.91	729,769.18	32° 33' 55.018 N	103° 43' 18.078 W
2,700.0	7.00	54.34	2,696.5	37.3	52.0	569,929.02	729,779.08	32° 33' 55.087 N	103° 43' 17.962 W
2,800.0	7.00	54.34	2,795.8	44.4	61.9	569,936.12	729,788.99	32° 33' 55.157 N	103° 43' 17.846 W
2,900.0	7.00	54.34	2,895.0	51.5	71.8	569,943.22	729,798.89	32° 33' 55.227 N	103° 43' 17.730 W
3,000.0	7.00	54.34	2,994.3	58.6	81.7	569,950.33	729,808.79	32° 33' 55.297 N	103° 43' 17.613 W
3,100.0	7.00	54.34	3,093.5	65.7	91.6	569,957.43	729,818.69	32° 33' 55.366 N	103° 43' 17.497 W
3,200.0	7.00	54.34	3,192.8	72.8	101.5	569,964.54	729,828.59	32° 33' 55.436 N	103° 43' 17.381 W
3,300.0	7.00	54.34	3,292.0	79.9	111.4	569,971.64	729,838.50	32° 33' 55.506 N	103° 43' 17.265 W
3,400.0	7.00	54.34	3,391.3	87.0	121.3	569,978.75	729,848.40	32° 33' 55.576 N	103° 43' 17.149 W
3,500.0	7.00	54.34	3,490.6	94.1	131.2	569,985.85	729,858.30	32° 33' 55.645 N	103° 43' 17.032 W
3,600.0	7.00	54.34	3,589.8	101.3	141.1	569,992.96	729,868.20	32° 33' 55.715 N	103° 43' 16.916 W
3,700.0	7.00	54.34	3,689.1	108.4	151.0	570,000.06	729,878.10	32° 33' 55.785 N	103° 43' 16.800 W
3,800.0	7.00	54.34	3,788.3	115.5	160.9	570,007.16	729,888.01	32° 33' 55.855 N	103° 43' 16.684 W
3,900.0	7.00	54.34	3,887.6	122.6	170.8	570,014.27	729,897.91	32° 33' 55.924 N	103° 43' 16.568 W
4,000.0	7.00	54.34	3,986.8	129.7	180.7	570,021.37	729,907.81	32° 33' 55.994 N	103° 43' 16.452 W
4,100.0	7.00	54.34	4,086.1	136.8	190.6	570,028.48	729,917.71	32° 33' 56.064 N	103° 43' 16.335 W
4,200.0	7.00	54.34	4,185.3	143.9	200.5	570,035.58	729,927.61	32° 33' 56.133 N	103° 43' 16.219 W
4,300.0	7.00	54.34	4,284.6	151.0	210.4	570,042.69	729,937.52	32° 33' 56.203 N	103° 43' 16.103 W
4,400.0	7.00	54.34	4,383.8	158.1	220.3	570,049.79	729,947.42	32° 33' 56.273 N	103° 43' 15.987 W
4,500.0	7.00	54.34	4,483.1	165.2	230.2	570,056.89	729,957.32	32° 33' 56.343 N	103° 43' 15.871 W
4,600.0	7.00	54.34	4,582.4	172.3	240.1	570,064.00	729,967.22	32° 33' 56.412 N	103° 43' 15.754 W
4,700.0	7.00	54.34	4,681.6	179.4	250.0	570,071.10	729,977.12	32° 33' 56.482 N	103° 43' 15.638 W
4,800.0	7.00	54.34	4,780.9	186.5	259.9	570,078.21	729,987.03	32° 33' 56.552 N	103° 43' 15.522 W
4,900.0	7.00	54.34	4,880.1	193.6	269.9	570,085.31	729,996.93	32° 33' 56.622 N	103° 43' 15.406 W
5,000.0	7.00	54.34	4,979.4	200.7	279.8	570,092.42	730,006.83	32° 33' 56.691 N	103° 43' 15.290 W

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,037.1	7.00	54.34	5,016.2	203.4	283.4	570,095.05	730,010.51	32° 33' 56.717 N	103° 43' 15.247 W	
Start Drop -2.00										
5,100.0	5.74	54.34	5,078.7	207.4	289.1	570,099.12	730,016.17	32° 33' 56.757 N	103° 43' 15.180 W	
5,200.0	3.74	54.34	5,178.4	212.2	295.8	570,103.94	730,022.89	32° 33' 56.804 N	103° 43' 15.101 W	
5,300.0	1.74	54.34	5,278.2	215.0	299.7	570,106.73	730,026.78	32° 33' 56.832 N	103° 43' 15.056 W	
5,387.1	0.00	0.00	5,365.4	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
Start 5052.1 hold at 5387.1 MD										
5,400.0	0.00	0.00	5,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
5,500.0	0.00	0.00	5,478.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
5,600.0	0.00	0.00	5,578.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
5,700.0	0.00	0.00	5,678.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
5,800.0	0.00	0.00	5,778.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
5,900.0	0.00	0.00	5,878.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,000.0	0.00	0.00	5,978.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,100.0	0.00	0.00	6,078.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,200.0	0.00	0.00	6,178.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,300.0	0.00	0.00	6,278.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,400.0	0.00	0.00	6,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,500.0	0.00	0.00	6,478.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,600.0	0.00	0.00	6,578.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,700.0	0.00	0.00	6,678.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,800.0	0.00	0.00	6,778.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
6,900.0	0.00	0.00	6,878.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,000.0	0.00	0.00	6,978.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,100.0	0.00	0.00	7,078.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,200.0	0.00	0.00	7,178.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,300.0	0.00	0.00	7,278.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,400.0	0.00	0.00	7,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,500.0	0.00	0.00	7,478.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,600.0	0.00	0.00	7,578.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,700.0	0.00	0.00	7,678.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,800.0	0.00	0.00	7,778.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
7,900.0	0.00	0.00	7,878.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,000.0	0.00	0.00	7,978.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,100.0	0.00	0.00	8,078.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,200.0	0.00	0.00	8,178.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,300.0	0.00	0.00	8,278.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,400.0	0.00	0.00	8,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,500.0	0.00	0.00	8,478.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,600.0	0.00	0.00	8,578.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,700.0	0.00	0.00	8,678.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,800.0	0.00	0.00	8,778.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
8,900.0	0.00	0.00	8,878.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,000.0	0.00	0.00	8,978.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,100.0	0.00	0.00	9,078.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,200.0	0.00	0.00	9,178.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,300.0	0.00	0.00	9,278.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,400.0	0.00	0.00	9,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,500.0	0.00	0.00	9,478.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,600.0	0.00	0.00	9,578.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,700.0	0.00	0.00	9,678.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,800.0	0.00	0.00	9,778.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
9,900.0	0.00	0.00	9,878.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
10,000.0	0.00	0.00	9,978.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,100.0	0.00	0.00	10,078.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
10,200.0	0.00	0.00	10,178.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
10,300.0	0.00	0.00	10,278.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
10,400.0	0.00	0.00	10,378.2	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
10,439.3	0.00	0.00	10,417.5	215.8	300.8	570,107.50	730,027.86	32° 33' 56.839 N	103° 43' 15.043 W	
Start DLS 12.00 TFO 179.64										
10,450.0	1.29	179.64	10,428.2	215.7	300.8	570,107.38	730,027.86	32° 33' 56.838 N	103° 43' 15.043 W	
10,475.0	4.29	179.64	10,453.2	214.5	300.8	570,106.17	730,027.86	32° 33' 56.826 N	103° 43' 15.043 W	
10,500.0	7.29	179.64	10,478.1	211.9	300.8	570,103.65	730,027.88	32° 33' 56.801 N	103° 43' 15.043 W	
10,525.0	10.29	179.64	10,502.8	208.1	300.8	570,099.83	730,027.90	32° 33' 56.763 N	103° 43' 15.043 W	
10,550.0	13.29	179.64	10,527.2	203.0	300.9	570,094.72	730,027.94	32° 33' 56.713 N	103° 43' 15.043 W	
10,575.0	16.29	179.64	10,551.4	196.6	300.9	570,088.34	730,027.98	32° 33' 56.650 N	103° 43' 15.043 W	
10,600.0	19.29	179.64	10,575.2	189.0	300.9	570,080.70	730,028.03	32° 33' 56.574 N	103° 43' 15.043 W	
10,625.0	22.29	179.64	10,598.6	180.1	301.0	570,071.83	730,028.08	32° 33' 56.486 N	103° 43' 15.043 W	
10,650.0	25.29	179.64	10,621.5	170.0	301.1	570,061.75	730,028.14	32° 33' 56.387 N	103° 43' 15.043 W	
10,675.0	28.29	179.64	10,643.8	158.8	301.1	570,050.48	730,028.22	32° 33' 56.275 N	103° 43' 15.043 W	
10,700.0	31.29	179.64	10,665.5	146.4	301.2	570,038.07	730,028.29	32° 33' 56.152 N	103° 43' 15.043 W	
10,725.0	34.29	179.64	10,686.5	132.8	301.3	570,024.53	730,028.38	32° 33' 56.018 N	103° 43' 15.042 W	
10,750.0	37.29	179.64	10,706.8	118.2	301.4	570,009.91	730,028.47	32° 33' 55.874 N	103° 43' 15.042 W	
10,775.0	40.29	179.64	10,726.2	102.6	301.5	569,994.25	730,028.57	32° 33' 55.719 N	103° 43' 15.042 W	
10,800.0	43.29	179.64	10,744.9	85.9	301.6	569,977.60	730,028.68	32° 33' 55.554 N	103° 43' 15.042 W	
10,825.0	46.29	179.64	10,762.6	68.3	301.7	569,959.99	730,028.79	32° 33' 55.380 N	103° 43' 15.042 W	
10,850.0	49.29	179.64	10,779.4	49.8	301.8	569,941.47	730,028.90	32° 33' 55.196 N	103° 43' 15.042 W	
10,875.0	52.29	179.64	10,795.2	30.4	301.9	569,922.11	730,029.02	32° 33' 55.005 N	103° 43' 15.042 W	
10,900.0	55.29	179.64	10,810.0	10.2	302.1	569,901.94	730,029.15	32° 33' 54.805 N	103° 43' 15.042 W	
10,925.0	58.29	179.64	10,823.7	-10.7	302.2	569,881.02	730,029.28	32° 33' 54.598 N	103° 43' 15.042 W	
10,950.0	61.29	179.64	10,836.3	-32.3	302.3	569,859.42	730,029.42	32° 33' 54.385 N	103° 43' 15.041 W	
10,975.0	64.29	179.64	10,847.7	-54.5	302.5	569,837.19	730,029.56	32° 33' 54.165 N	103° 43' 15.041 W	
11,000.0	67.29	179.64	10,857.9	-77.3	302.6	569,814.40	730,029.70	32° 33' 53.939 N	103° 43' 15.041 W	
11,025.0	70.29	179.64	10,867.0	-100.6	302.8	569,791.09	730,029.85	32° 33' 53.708 N	103° 43' 15.041 W	
11,050.0	73.29	179.64	10,874.8	-124.4	302.9	569,767.35	730,030.00	32° 33' 53.473 N	103° 43' 15.041 W	
11,075.0	76.29	179.64	10,881.4	-148.5	303.1	569,743.23	730,030.15	32° 33' 53.235 N	103° 43' 15.041 W	
11,100.0	79.29	179.64	10,886.6	-172.9	303.2	569,718.80	730,030.31	32° 33' 52.993 N	103° 43' 15.040 W	
11,125.0	82.29	179.64	10,890.6	-197.6	303.4	569,694.12	730,030.46	32° 33' 52.749 N	103° 43' 15.040 W	
11,150.0	85.29	179.64	10,893.4	-222.4	303.5	569,669.27	730,030.62	32° 33' 52.503 N	103° 43' 15.040 W	
11,175.0	88.29	179.64	10,894.8	-247.4	303.7	569,644.31	730,030.78	32° 33' 52.256 N	103° 43' 15.040 W	
11,189.3	90.00	179.64	10,895.0	-261.7	303.8	569,630.05	730,030.87	32° 33' 52.115 N	103° 43' 15.040 W	
Start 12670.7 hold at 11189.3 MD										
11,200.0	90.00	179.64	10,895.0	-272.4	303.9	569,619.32	730,030.93	32° 33' 52.009 N	103° 43' 15.040 W	
11,300.0	90.00	179.64	10,895.0	-372.4	304.5	569,519.32	730,031.56	32° 33' 51.019 N	103° 43' 15.039 W	
11,400.0	90.00	179.64	10,895.0	-472.4	305.1	569,419.32	730,032.19	32° 33' 50.030 N	103° 43' 15.039 W	
11,500.0	90.00	179.64	10,895.0	-572.4	305.7	569,319.32	730,032.82	32° 33' 49.040 N	103° 43' 15.038 W	
11,600.0	90.00	179.64	10,895.0	-672.4	306.4	569,219.33	730,033.45	32° 33' 48.051 N	103° 43' 15.037 W	
11,700.0	90.00	179.64	10,895.0	-772.4	307.0	569,119.33	730,034.08	32° 33' 47.061 N	103° 43' 15.037 W	
11,800.0	90.00	179.64	10,895.0	-872.4	307.6	569,019.33	730,034.71	32° 33' 46.072 N	103° 43' 15.036 W	
11,900.0	90.00	179.64	10,895.0	-972.4	308.3	568,919.33	730,035.34	32° 33' 45.082 N	103° 43' 15.035 W	
11,985.0	90.00	179.64	10,895.0	-1,057.3	308.8	568,834.36	730,035.88	32° 33' 44.241 N	103° 43' 15.035 W	
NMMN 016640B Entry at 11985.0 MD										
12,000.0	90.00	179.64	10,895.0	-1,072.4	308.9	568,819.33	730,035.97	32° 33' 44.093 N	103° 43' 15.035 W	
12,100.0	90.00	179.64	10,895.0	-1,172.4	309.5	568,719.34	730,036.60	32° 33' 43.103 N	103° 43' 15.034 W	
12,200.0	90.00	179.64	10,895.0	-1,272.4	310.2	568,619.34	730,037.23	32° 33' 42.114 N	103° 43' 15.033 W	
12,300.0	90.00	179.64	10,895.0	-1,372.4	310.8	568,519.34	730,037.87	32° 33' 41.124 N	103° 43' 15.033 W	
12,400.0	90.00	179.64	10,895.0	-1,472.4	311.4	568,419.34	730,038.50	32° 33' 40.135 N	103° 43' 15.032 W	
12,500.0	90.00	179.64	10,895.0	-1,572.4	312.0	568,319.34	730,039.13	32° 33' 39.145 N	103° 43' 15.032 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
12,600.0	90.00	179.64	10,895.0	-1,672.4	312.7	568,219.34	730,039.76	32° 33' 38.155 N	103° 43' 15.031 W	
12,700.0	90.00	179.64	10,895.0	-1,772.4	313.3	568,119.35	730,040.39	32° 33' 37.166 N	103° 43' 15.030 W	
12,800.0	90.00	179.64	10,895.0	-1,872.4	313.9	568,019.35	730,041.02	32° 33' 36.176 N	103° 43' 15.030 W	
12,900.0	90.00	179.64	10,895.0	-1,972.4	314.6	567,919.35	730,041.65	32° 33' 35.187 N	103° 43' 15.029 W	
13,000.0	90.00	179.64	10,895.0	-2,072.3	315.2	567,819.35	730,042.28	32° 33' 34.197 N	103° 43' 15.028 W	
13,100.0	90.00	179.64	10,895.0	-2,172.3	315.8	567,719.35	730,042.91	32° 33' 33.208 N	103° 43' 15.028 W	
13,200.0	90.00	179.64	10,895.0	-2,272.3	316.5	567,619.36	730,043.54	32° 33' 32.218 N	103° 43' 15.027 W	
13,300.0	90.00	179.64	10,895.0	-2,372.3	317.1	567,519.36	730,044.17	32° 33' 31.229 N	103° 43' 15.026 W	
13,308.0	90.00	179.64	10,895.0	-2,380.3	317.1	567,511.39	730,044.22	32° 33' 31.150 N	103° 43' 15.026 W	
NMNM 016640A Entry at 13308.0 MD										
13,400.0	90.00	179.64	10,895.0	-2,472.3	317.7	567,419.36	730,044.80	32° 33' 30.239 N	103° 43' 15.026 W	
13,500.0	90.00	179.64	10,895.0	-2,572.3	318.4	567,319.36	730,045.43	32° 33' 29.250 N	103° 43' 15.025 W	
13,600.0	90.00	179.64	10,895.0	-2,672.3	319.0	567,219.36	730,046.06	32° 33' 28.260 N	103° 43' 15.024 W	
13,700.0	90.00	179.64	10,895.0	-2,772.3	319.6	567,119.37	730,046.69	32° 33' 27.271 N	103° 43' 15.024 W	
13,800.0	90.00	179.64	10,895.0	-2,872.3	320.2	567,019.37	730,047.32	32° 33' 26.281 N	103° 43' 15.023 W	
13,900.0	90.00	179.64	10,895.0	-2,972.3	320.9	566,919.37	730,047.95	32° 33' 25.292 N	103° 43' 15.023 W	
14,000.0	90.00	179.64	10,895.0	-3,072.3	321.5	566,819.37	730,048.58	32° 33' 24.302 N	103° 43' 15.022 W	
14,100.0	90.00	179.64	10,895.0	-3,172.3	322.1	566,719.37	730,049.21	32° 33' 23.313 N	103° 43' 15.021 W	
14,200.0	90.00	179.64	10,895.0	-3,272.3	322.8	566,619.38	730,049.84	32° 33' 22.323 N	103° 43' 15.021 W	
14,300.0	90.00	179.64	10,895.0	-3,372.3	323.4	566,519.38	730,050.47	32° 33' 21.334 N	103° 43' 15.020 W	
14,400.0	90.00	179.64	10,895.0	-3,472.3	324.0	566,419.38	730,051.10	32° 33' 20.344 N	103° 43' 15.019 W	
14,500.0	90.00	179.64	10,895.0	-3,572.3	324.7	566,319.38	730,051.73	32° 33' 19.355 N	103° 43' 15.019 W	
14,600.0	90.00	179.64	10,895.0	-3,672.3	325.3	566,219.38	730,052.36	32° 33' 18.365 N	103° 43' 15.018 W	
14,700.0	90.00	179.64	10,895.0	-3,772.3	325.9	566,119.39	730,052.99	32° 33' 17.376 N	103° 43' 15.017 W	
14,800.0	90.00	179.64	10,895.0	-3,872.3	326.5	566,019.39	730,053.62	32° 33' 16.386 N	103° 43' 15.017 W	
14,900.0	90.00	179.64	10,895.0	-3,972.3	327.2	565,919.39	730,054.25	32° 33' 15.397 N	103° 43' 15.016 W	
15,000.0	90.00	179.64	10,895.0	-4,072.3	327.8	565,819.39	730,054.88	32° 33' 14.407 N	103° 43' 15.015 W	
15,100.0	90.00	179.64	10,895.0	-4,172.3	328.4	565,719.39	730,055.51	32° 33' 13.418 N	103° 43' 15.015 W	
15,200.0	90.00	179.64	10,895.0	-4,272.3	329.1	565,619.40	730,056.14	32° 33' 12.428 N	103° 43' 15.014 W	
15,300.0	90.00	179.64	10,895.0	-4,372.3	329.7	565,519.40	730,056.77	32° 33' 11.439 N	103° 43' 15.014 W	
15,400.0	90.00	179.64	10,895.0	-4,472.3	330.3	565,419.40	730,057.40	32° 33' 10.449 N	103° 43' 15.013 W	
15,500.0	90.00	179.64	10,895.0	-4,572.3	331.0	565,319.40	730,058.03	32° 33' 9.460 N	103° 43' 15.012 W	
15,600.0	90.00	179.64	10,895.0	-4,672.3	331.6	565,219.40	730,058.66	32° 33' 8.470 N	103° 43' 15.012 W	
15,700.0	90.00	179.64	10,895.0	-4,772.3	332.2	565,119.41	730,059.29	32° 33' 7.481 N	103° 43' 15.011 W	
15,800.0	90.00	179.64	10,895.0	-4,872.3	332.8	565,019.41	730,059.92	32° 33' 6.491 N	103° 43' 15.010 W	
15,900.0	90.00	179.64	10,895.0	-4,972.3	333.5	564,919.41	730,060.55	32° 33' 5.502 N	103° 43' 15.010 W	
15,954.0	90.00	179.64	10,895.0	-5,026.3	333.8	564,865.44	730,060.89	32° 33' 4.967 N	103° 43' 15.009 W	
NMNM 015907 Entry at 15954.0 MD										
16,000.0	90.00	179.64	10,895.0	-5,072.3	334.1	564,819.41	730,061.18	32° 33' 4.512 N	103° 43' 15.009 W	
16,100.0	90.00	179.64	10,895.0	-5,172.3	334.7	564,719.41	730,061.81	32° 33' 3.522 N	103° 43' 15.008 W	
16,200.0	90.00	179.64	10,895.0	-5,272.3	335.4	564,619.42	730,062.44	32° 33' 2.533 N	103° 43' 15.008 W	
16,300.0	90.00	179.64	10,895.0	-5,372.3	336.0	564,519.42	730,063.07	32° 33' 1.543 N	103° 43' 15.007 W	
16,400.0	90.00	179.64	10,895.0	-5,472.3	336.6	564,419.42	730,063.70	32° 33' 0.554 N	103° 43' 15.006 W	
16,500.0	90.00	179.64	10,895.0	-5,572.3	337.3	564,319.42	730,064.33	32° 32' 59.564 N	103° 43' 15.006 W	
16,600.0	90.00	179.64	10,895.0	-5,672.3	337.9	564,219.42	730,064.96	32° 32' 58.575 N	103° 43' 15.005 W	
16,700.0	90.00	179.64	10,895.0	-5,772.3	338.5	564,119.43	730,065.59	32° 32' 57.585 N	103° 43' 15.005 W	
16,800.0	90.00	179.64	10,895.0	-5,872.3	339.1	564,019.43	730,066.22	32° 32' 56.596 N	103° 43' 15.004 W	
16,900.0	90.00	179.64	10,895.0	-5,972.3	339.8	563,919.43	730,066.85	32° 32' 55.606 N	103° 43' 15.003 W	
17,000.0	90.00	179.64	10,895.0	-6,072.3	340.4	563,819.43	730,067.48	32° 32' 54.617 N	103° 43' 15.003 W	
17,100.0	90.00	179.64	10,895.0	-6,172.3	341.0	563,719.43	730,068.11	32° 32' 53.627 N	103° 43' 15.002 W	
17,200.0	90.00	179.64	10,895.0	-6,272.3	341.7	563,619.44	730,068.75	32° 32' 52.638 N	103° 43' 15.001 W	
17,300.0	90.00	179.64	10,895.0	-6,372.3	342.3	563,519.44	730,069.38	32° 32' 51.648 N	103° 43' 15.001 W	
17,400.0	90.00	179.64	10,895.0	-6,472.3	342.9	563,419.44	730,070.01	32° 32' 50.659 N	103° 43' 15.000 W	
17,500.0	90.00	179.64	10,895.0	-6,572.3	343.6	563,319.44	730,070.64	32° 32' 49.669 N	103° 43' 14.999 W	

Permian Resources

Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
17,600.0	90.00	179.64	10,895.0	-6,672.3	344.2	563,219.44	730,071.27	32° 32' 48.680 N	103° 43' 14.999 W	
17,700.0	90.00	179.64	10,895.0	-6,772.3	344.8	563,119.45	730,071.90	32° 32' 47.690 N	103° 43' 14.998 W	
17,800.0	90.00	179.64	10,895.0	-6,872.3	345.4	563,019.45	730,072.53	32° 32' 46.701 N	103° 43' 14.997 W	
17,900.0	90.00	179.64	10,895.0	-6,972.3	346.1	562,919.45	730,073.16	32° 32' 45.711 N	103° 43' 14.997 W	
18,000.0	90.00	179.64	10,895.0	-7,072.3	346.7	562,819.45	730,073.79	32° 32' 44.722 N	103° 43' 14.996 W	
18,100.0	90.00	179.64	10,895.0	-7,172.2	347.3	562,719.45	730,074.42	32° 32' 43.732 N	103° 43' 14.996 W	
18,200.0	90.00	179.64	10,895.0	-7,272.2	348.0	562,619.46	730,075.05	32° 32' 42.743 N	103° 43' 14.995 W	
18,300.0	90.00	179.64	10,895.0	-7,372.2	348.6	562,519.46	730,075.68	32° 32' 41.753 N	103° 43' 14.994 W	
18,400.0	90.00	179.64	10,895.0	-7,472.2	349.2	562,419.46	730,076.31	32° 32' 40.764 N	103° 43' 14.994 W	
18,500.0	90.00	179.64	10,895.0	-7,572.2	349.9	562,319.46	730,076.94	32° 32' 39.774 N	103° 43' 14.993 W	
18,600.0	90.00	179.64	10,895.0	-7,672.2	350.5	562,219.46	730,077.57	32° 32' 38.785 N	103° 43' 14.992 W	
18,700.0	90.00	179.64	10,895.0	-7,772.2	351.1	562,119.47	730,078.20	32° 32' 37.795 N	103° 43' 14.992 W	
18,800.0	90.00	179.64	10,895.0	-7,872.2	351.8	562,019.47	730,078.83	32° 32' 36.806 N	103° 43' 14.991 W	
18,900.0	90.00	179.64	10,895.0	-7,972.2	352.4	561,919.47	730,079.46	32° 32' 35.816 N	103° 43' 14.990 W	
19,000.0	90.00	179.64	10,895.0	-8,072.2	353.0	561,819.47	730,080.09	32° 32' 34.827 N	103° 43' 14.990 W	
19,100.0	90.00	179.64	10,895.0	-8,172.2	353.6	561,719.47	730,080.72	32° 32' 33.837 N	103° 43' 14.989 W	
19,200.0	90.00	179.64	10,895.0	-8,272.2	354.3	561,619.48	730,081.35	32° 32' 32.848 N	103° 43' 14.988 W	
19,300.0	90.00	179.64	10,895.0	-8,372.2	354.9	561,519.48	730,081.98	32° 32' 31.858 N	103° 43' 14.988 W	
19,400.0	90.00	179.64	10,895.0	-8,472.2	355.5	561,419.48	730,082.61	32° 32' 30.868 N	103° 43' 14.987 W	
19,500.0	90.00	179.64	10,895.0	-8,572.2	356.2	561,319.48	730,083.24	32° 32' 29.879 N	103° 43' 14.987 W	
19,600.0	90.00	179.64	10,895.0	-8,672.2	356.8	561,219.48	730,083.87	32° 32' 28.889 N	103° 43' 14.986 W	
19,700.0	90.00	179.64	10,895.0	-8,772.2	357.4	561,119.49	730,084.50	32° 32' 27.900 N	103° 43' 14.985 W	
19,800.0	90.00	179.64	10,895.0	-8,872.2	358.1	561,019.49	730,085.13	32° 32' 26.910 N	103° 43' 14.985 W	
19,900.0	90.00	179.64	10,895.0	-8,972.2	358.7	560,919.49	730,085.76	32° 32' 25.921 N	103° 43' 14.984 W	
20,000.0	90.00	179.64	10,895.0	-9,072.2	359.3	560,819.49	730,086.39	32° 32' 24.931 N	103° 43' 14.983 W	
20,100.0	90.00	179.64	10,895.0	-9,172.2	359.9	560,719.49	730,087.02	32° 32' 23.942 N	103° 43' 14.983 W	
20,200.0	90.00	179.64	10,895.0	-9,272.2	360.6	560,619.50	730,087.65	32° 32' 22.952 N	103° 43' 14.982 W	
20,300.0	90.00	179.64	10,895.0	-9,372.2	361.2	560,519.50	730,088.28	32° 32' 21.963 N	103° 43' 14.981 W	
20,400.0	90.00	179.64	10,895.0	-9,472.2	361.8	560,419.50	730,088.91	32° 32' 20.973 N	103° 43' 14.981 W	
20,500.0	90.00	179.64	10,895.0	-9,572.2	362.5	560,319.50	730,089.54	32° 32' 19.984 N	103° 43' 14.980 W	
20,600.0	90.00	179.64	10,895.0	-9,672.2	363.1	560,219.50	730,090.17	32° 32' 18.994 N	103° 43' 14.979 W	
20,700.0	90.00	179.64	10,895.0	-9,772.2	363.7	560,119.51	730,090.80	32° 32' 18.005 N	103° 43' 14.979 W	
20,800.0	90.00	179.64	10,895.0	-9,872.2	364.4	560,019.51	730,091.43	32° 32' 17.015 N	103° 43' 14.978 W	
20,900.0	90.00	179.64	10,895.0	-9,972.2	365.0	559,919.51	730,092.06	32° 32' 16.026 N	103° 43' 14.978 W	
21,000.0	90.00	179.64	10,895.0	-10,072.2	365.6	559,819.51	730,092.69	32° 32' 15.036 N	103° 43' 14.977 W	
21,100.0	90.00	179.64	10,895.0	-10,172.2	366.2	559,719.51	730,093.32	32° 32' 14.047 N	103° 43' 14.976 W	
21,200.0	90.00	179.64	10,895.0	-10,272.2	366.9	559,619.52	730,093.95	32° 32' 13.057 N	103° 43' 14.976 W	
21,230.0	90.00	179.64	10,895.0	-10,302.1	367.1	559,589.56	730,094.14	32° 32' 12.761 N	103° 43' 14.975 W	
NMNM 015907 Exit at 21230.0 MD										
21,300.0	90.00	179.64	10,895.0	-10,372.2	367.5	559,519.52	730,094.58	32° 32' 12.068 N	103° 43' 14.975 W	
21,400.0	90.00	179.64	10,895.0	-10,472.2	368.1	559,419.52	730,095.21	32° 32' 11.078 N	103° 43' 14.974 W	
21,500.0	90.00	179.64	10,895.0	-10,572.2	368.8	559,319.52	730,095.84	32° 32' 10.089 N	103° 43' 14.974 W	
21,600.0	90.00	179.64	10,895.0	-10,672.2	369.4	559,219.52	730,096.47	32° 32' 9.099 N	103° 43' 14.973 W	
21,700.0	90.00	179.64	10,895.0	-10,772.2	370.0	559,119.53	730,097.10	32° 32' 8.110 N	103° 43' 14.972 W	
21,800.0	90.00	179.64	10,895.0	-10,872.2	370.7	559,019.53	730,097.73	32° 32' 7.120 N	103° 43' 14.972 W	
21,900.0	90.00	179.64	10,895.0	-10,972.2	371.3	558,919.53	730,098.36	32° 32' 6.131 N	103° 43' 14.971 W	
22,000.0	90.00	179.64	10,895.0	-11,072.2	371.9	558,819.53	730,098.99	32° 32' 5.141 N	103° 43' 14.970 W	
22,100.0	90.00	179.64	10,895.0	-11,172.2	372.5	558,719.53	730,099.62	32° 32' 4.152 N	103° 43' 14.970 W	
22,200.0	90.00	179.64	10,895.0	-11,272.2	373.2	558,619.54	730,100.26	32° 32' 3.162 N	103° 43' 14.969 W	
22,300.0	90.00	179.64	10,895.0	-11,372.2	373.8	558,519.54	730,100.89	32° 32' 2.173 N	103° 43' 14.968 W	
22,400.0	90.00	179.64	10,895.0	-11,472.2	374.4	558,419.54	730,101.52	32° 32' 1.183 N	103° 43' 14.968 W	
22,500.0	90.00	179.64	10,895.0	-11,572.2	375.1	558,319.54	730,102.15	32° 32' 0.193 N	103° 43' 14.967 W	
22,600.0	90.00	179.64	10,895.0	-11,672.2	375.7	558,219.54	730,102.78	32° 31' 59.204 N	103° 43' 14.967 W	
22,700.0	90.00	179.64	10,895.0	-11,772.2	376.3	558,119.55	730,103.41	32° 31' 58.214 N	103° 43' 14.966 W	

Permian Resources
Planning Report - Geographic

Database:	Compass	Local Co-ordinate Reference:	Well PAKSE 3 SOUTH FED COM 322H
Company:	NEW MEXICO	TVD Reference:	KB @ 3570.2usft
Project:	(SP) LEA	MD Reference:	KB @ 3570.2usft
Site:	PASKE PROJECT	North Reference:	Grid
Well:	PAKSE 3 SOUTH FED COM 322H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
22,800.0	90.00	179.64	10,895.0	-11,872.2	377.0	558,019.55	730,104.04	32° 31' 57.225 N	103° 43' 14.965 W	
22,900.0	90.00	179.64	10,895.0	-11,972.2	377.6	557,919.55	730,104.67	32° 31' 56.235 N	103° 43' 14.965 W	
23,000.0	90.00	179.64	10,895.0	-12,072.2	378.2	557,819.55	730,105.30	32° 31' 55.246 N	103° 43' 14.964 W	
23,100.0	90.00	179.64	10,895.0	-12,172.1	378.9	557,719.55	730,105.93	32° 31' 54.256 N	103° 43' 14.963 W	
23,200.0	90.00	179.64	10,895.0	-12,272.1	379.5	557,619.56	730,106.56	32° 31' 53.267 N	103° 43' 14.963 W	
23,300.0	90.00	179.64	10,895.0	-12,372.1	380.1	557,519.56	730,107.19	32° 31' 52.277 N	103° 43' 14.962 W	
23,400.0	90.00	179.64	10,895.0	-12,472.1	380.7	557,419.56	730,107.82	32° 31' 51.288 N	103° 43' 14.961 W	
23,500.0	90.00	179.64	10,895.0	-12,572.1	381.4	557,319.56	730,108.45	32° 31' 50.298 N	103° 43' 14.961 W	
23,600.0	90.00	179.64	10,895.0	-12,672.1	382.0	557,219.56	730,109.08	32° 31' 49.309 N	103° 43' 14.960 W	
23,700.0	90.00	179.64	10,895.0	-12,772.1	382.6	557,119.57	730,109.71	32° 31' 48.319 N	103° 43' 14.959 W	
23,800.0	90.00	179.64	10,895.0	-12,872.1	383.3	557,019.57	730,110.34	32° 31' 47.330 N	103° 43' 14.959 W	
23,860.0	90.00	179.64	10,895.0	-12,932.1	383.6	556,959.59	730,110.72	32° 31' 46.736 N	103° 43' 14.958 W	
TD at 23860.0										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP-PAKSE 3 S FC 3: - hit/miss target - Shape - Point	0.00	0.00	10,895.0	-12,842.1	383.1	557,049.59	730,110.15	32° 31' 47.627 N	103° 43' 14.959 W	
BHL-PAKSE 3 S FC 3 - plan hits target center - Point	0.00	0.00	10,895.0	-12,932.1	383.6	556,959.59	730,110.72	32° 31' 46.736 N	103° 43' 14.958 W	
FTP-PAKSE 3 S FC 3 - plan misses target center by 163.4usft at 10841.7usft MD (10774.0 TVD, 56.0 N, 301.8 E) - Point	0.00	0.00	10,895.0	165.8	300.8	570,057.47	730,027.86	32° 33' 56.344 N	103° 43' 15.046 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	Start Build 2.00	
2,350.0	2,349.1	12.4	17.4	Start 2687.1 hold at 2350.0 MD	
5,037.1	5,016.2	203.4	283.4	Start Drop -2.00	
5,387.1	5,365.4	215.8	300.8	Start 5052.1 hold at 5387.1 MD	
10,439.3	10,417.5	215.8	300.8	Start DLS 12.00 TFO 179.64	
11,189.3	10,895.0	-261.7	303.8	Start 12670.7 hold at 11189.3 MD	
11,985.0	10,895.0	-1,057.3	308.8	NMNM 016640B Entry at 11985.0 MD	
13,308.0	10,895.0	-2,380.3	317.1	NMNM 016640A Entry at 13308.0 MD	
15,954.0	10,895.0	-5,026.3	333.8	NMNM 015907 Entry at 15954.0 MD	
21,230.0	10,895.0	-10,302.1	367.1	NMNM 015907 Exit at 21230.0 MD	
23,860.0	10,895.0	-12,932.1	383.6	TD at 23860.0	

Permian Resources - Pakse 3 South Fed Com 322H

1. Geologic Formations

Formation	Lithology	Elevation	TVD	Target
Rustler	Sandstone	2419	1151	No
Top of Salt	Salt	2203	1367	No
Tansill	Sandstone	645	2925	No
Capitan	Sandstone	-128	3698	No
Delaware Sands	Sandstone	-1124	4694	No
Brushy Canyon	Sandstone	-2625	6195	No
Bone Spring Lime	Limestone/Shale	-4326	7896	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-5348	8918	No
2nd Bone Spring Sand	Sandstone/Limestone/Shale	-5899	9469	No
3rd Bone Spring Sand	Sandstone/Limestone/Shale	-6968	10538	Yes
Wolfcamp	Shale	-7371	10941	No

2. Blowout Prevention

BOP installed and tested before drilling	Size?	Min. Required WP	Type	x	Tested to:
12.25	20"	2M	Annular	x	1000 psi
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
9.875	13-5/8"	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			Other*		
7.875	13-5/8"	5M	Annular	x	2500 psi
			Blind Ram	x	5000 psi
			Pipe Ram	x	
			Double Ram		
			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	Top	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	4.70	2.30	Dry	3.17	Dry	4.60
Production	7.875	5.5	0	11189	0	10895	11189	P110RY	20	GeoConn	1.96	2.05	Dry	2.02	Dry	2.02
Production	7.875	5.5	11189	23860	10895	10895	12671	P110RY	20	GeoConn	1.96	2.05	Dry	2.02	Dry	2.02
BLM Min Safety Factor											1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quantity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Tail	0	1176	920	1.34	14.8	1230	50%	Class C	Accelerator
Intermediate 1	Lead	0	2360	330	1.88	12.9	620	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 1	Tail	2360	2950	130	1.34	14.8	170	50%	Class C	Retarder
Intermediate 2	Lead	0	3710	290	1.88	12.9	540	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 2	Tail	3710	4644	120	1.33	14.8	150	25%	Class C	Salt
Production	Lead	4144	10439	630	2.41	11.5	1500	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	10439	23860	1690	1.73	12.5	2910	25%	Class H	POZ, Extender, Fluid Loss, 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 other 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: 10820 Cu Ft

Circulating Medium 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	11189	Brine	9	10
11189	23860	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	5670	psi
Anticipated Surface Pressure	3269	psi
Anticipated Bottom Hole Temperature	164	°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:	10820 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

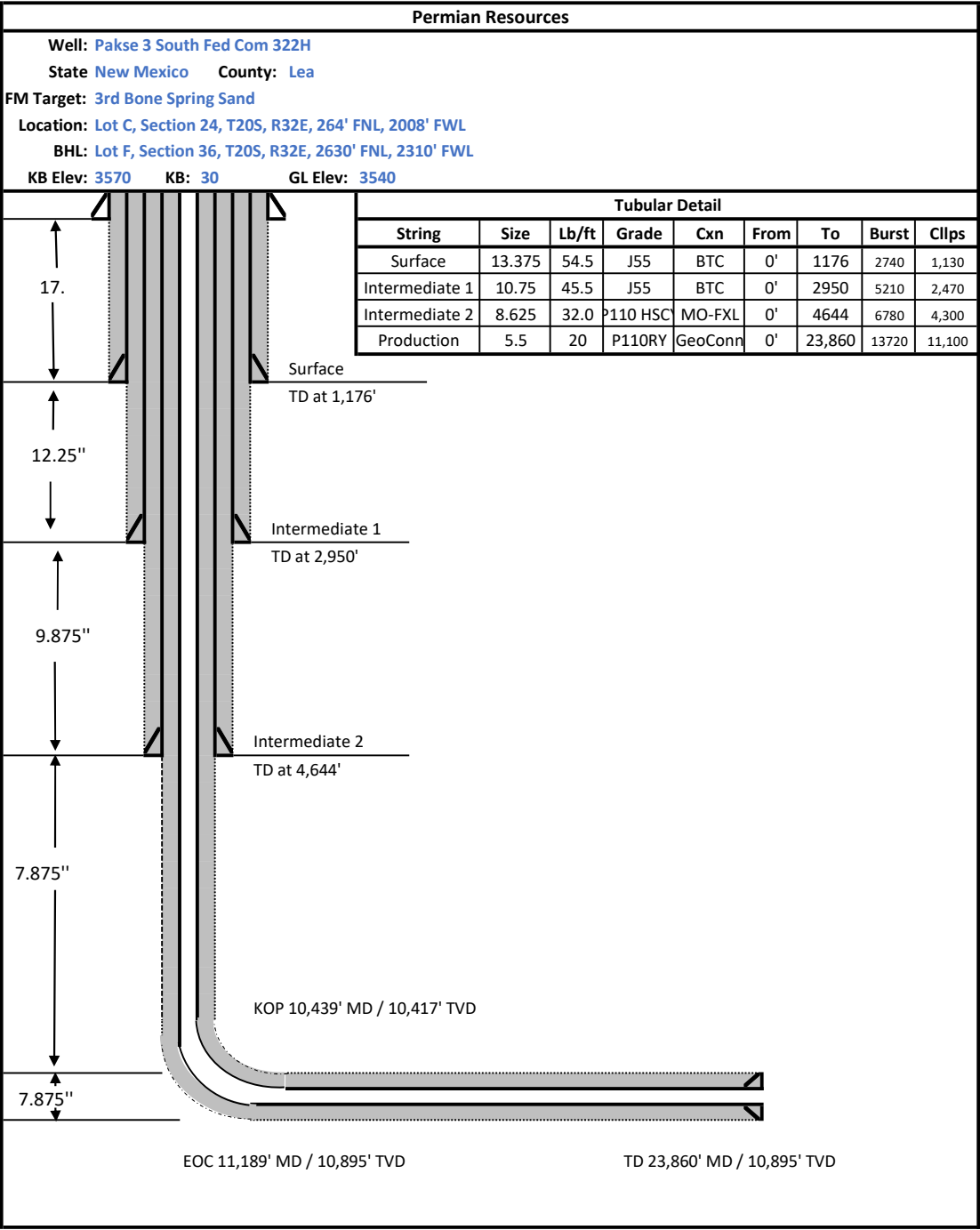
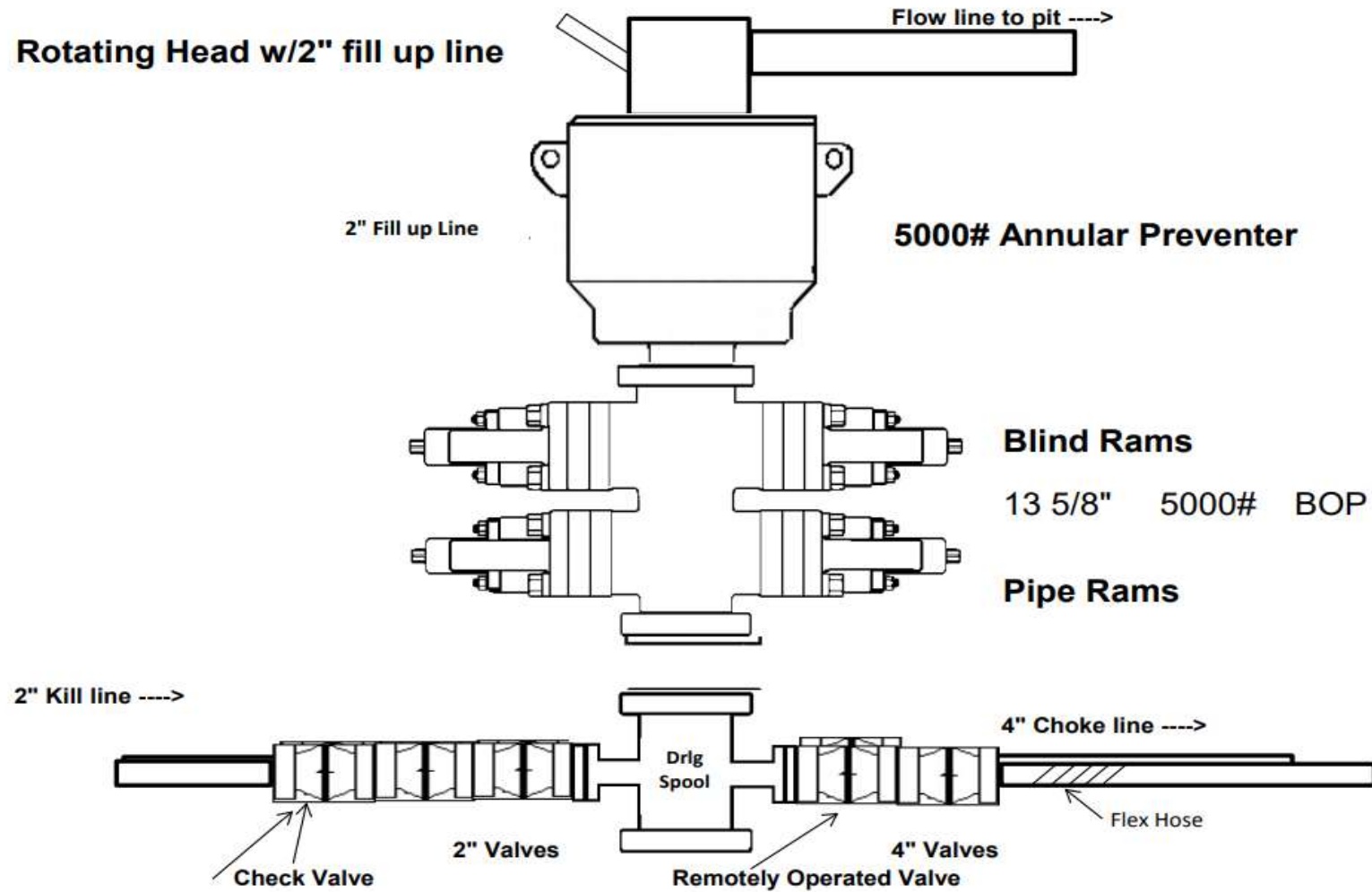
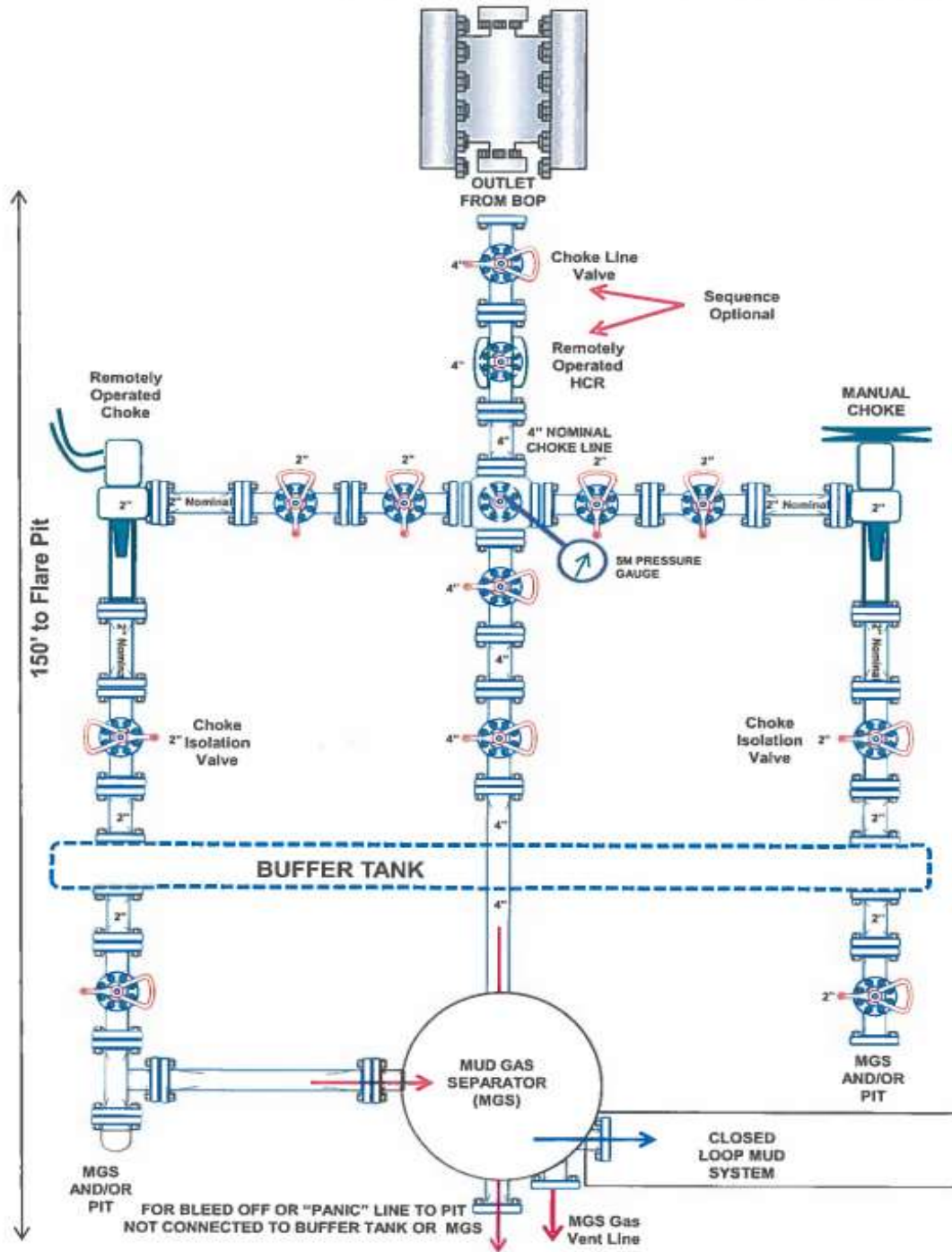


Diagram illustrating a wellhead assembly configuration. The assembly includes a rotary table (RKB 26' To GL) connected to a 20" 2000psi Annular. The annular is connected to a 21-1/4" (500 psi static / 250psi dynamic) and Orbit Valve. The valve is connected to a 21-1/4" spacer spool. The spacer spool is connected to a 4 1/16" Manual Choke Valve and a 4 1/16" Cameron 10M FLS HCR Valve. The valves are connected to a 3" Coflex Choke Line - 10M, which leads to a choke manifold. The assembly is supported by a 20" casing. Other components shown include a 21-1/4" 2M A-section and a DSA 21-1/4" 2M x 21-1/4" 2M.

5,000 psi BOP Schematic



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





ContiTech

CONTITECH RUBBER
Industrial Kft.

No:QC-DB- 210/ 2014

Page: 9 / 113

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 504	
PURCHASER: ContiTech Oil & Marine Corp.				P.O. N°: 4500408659	
CONTITECH RUBBER order N°: 538236		HOSE TYPE: 3" ID		Choke and Kill Hose	
HOSE SERIAL N°: 67255		NOMINAL / ACTUAL LENGTH: 10,67 m / 10,77 m			
W.P. 68,9 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature <div style="text-align: center;">See attachment. (1 page)</div>					
↑ 10 mm = 10 Min. → 10 mm = 20 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with		9251 9254		AISI 4130	
4 1/16" 10K API b.w. Flange end				AISI 4130	
				035608	
Not Designed For Well Testing				API Spec 16 C	
				Temperature rate:"B"	
All metal parts are flawless					
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date:		Inspector		Quality Control	
20. March 2014.				ContiTech Rubber Industrial Kft. Quality Control Dept.  	

ContiTech Rubber Industrial Kft. : Budapest 1156, H-8728 Sziged | H 4701 P.O.Box 322 Sziged, Hungary
 Phone: +36 82 584 722 | Fax: +36 82 584 728 | e-mail: info@bud.contitech.hu; info@sziged.contitech.hu; www.contitech.hu
 The Court of Company Law of the Registry Court (Registry Court No. Cg.95-09-00252) (EU VAT No: HU11557205)
 Belföldi Adószám: 14020105-20830003

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE No: 501, 504, 505

Page: 1 / 1



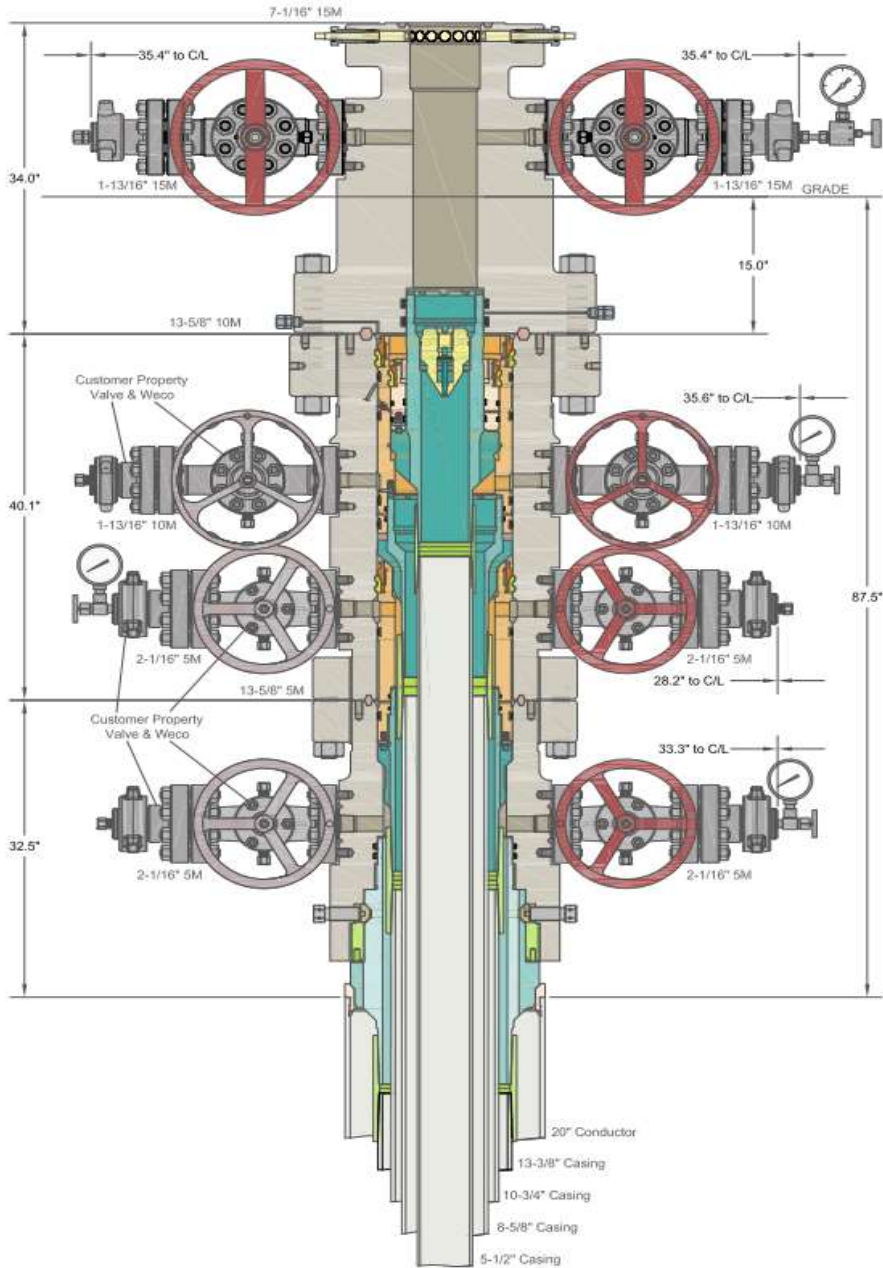


CONTITECH RUBBER Industrial Kft.	No:QC-DB- 210/ 2014
	Page: 15 / 113
	ContiTech

Hose Data Sheet

CRI Order No.	538236
Customer	ContiTech Oil & Marine Corp.
Customer Order No.	4500409659
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 BX155 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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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC		PERMIAN RESOURCES NEW MEXICO	
20" x 13-3/8" x 10-3/4" x 8-5/8" x 5-1/2" MBU-4T-CFL-R-DBLO Sys. With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 10-3/4" & 7-5/8" & 5-1/2" Fluted Mandrel Casing Hangers	DRAWN	DLE	26OCT23
	APPRV		
DRAWING NO.		HBE0001038	

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
 - (1) 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
 - (1) 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
 - (1) 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
 - (1) 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
 - (1) 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
 - (1) 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
 - (1) 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

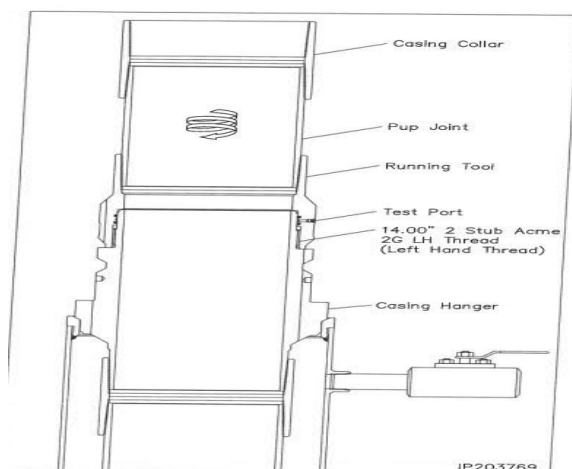
- 1) Burst Design Loads
 - a) Injection Down Casing
 - (1) Internal: Surface pressure plus injection fluid gradient.
 - (2) External: Mud base-fluid density to top of cement and cement mix water gradient (8.4 ppg) below TOC.
 - b) Casing Pressure Test (Drilling)
 - (1) Internal: Displacement fluid plus 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

Surface Casing - 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.

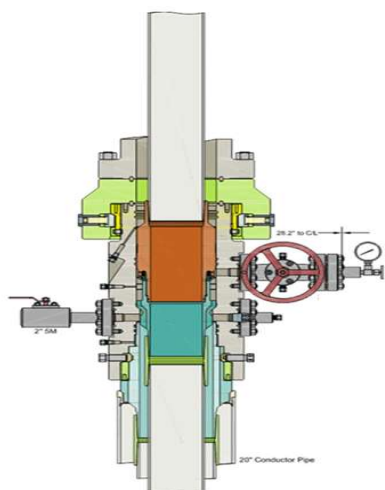


Intermediate 1 Casing – PR intends to Batch set all intermediate 1 casing strings to a depth approved in the APD, typically set into end of salts. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

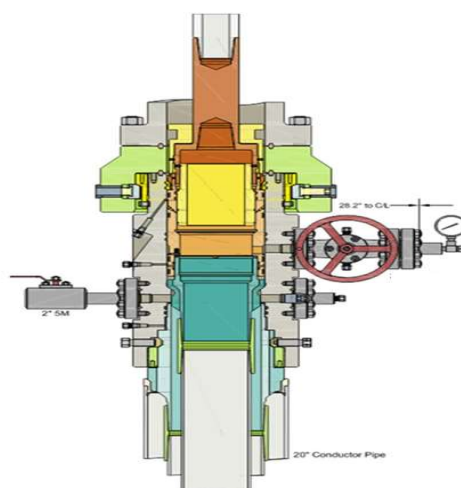
Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 1 as per requested break testing variance).

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

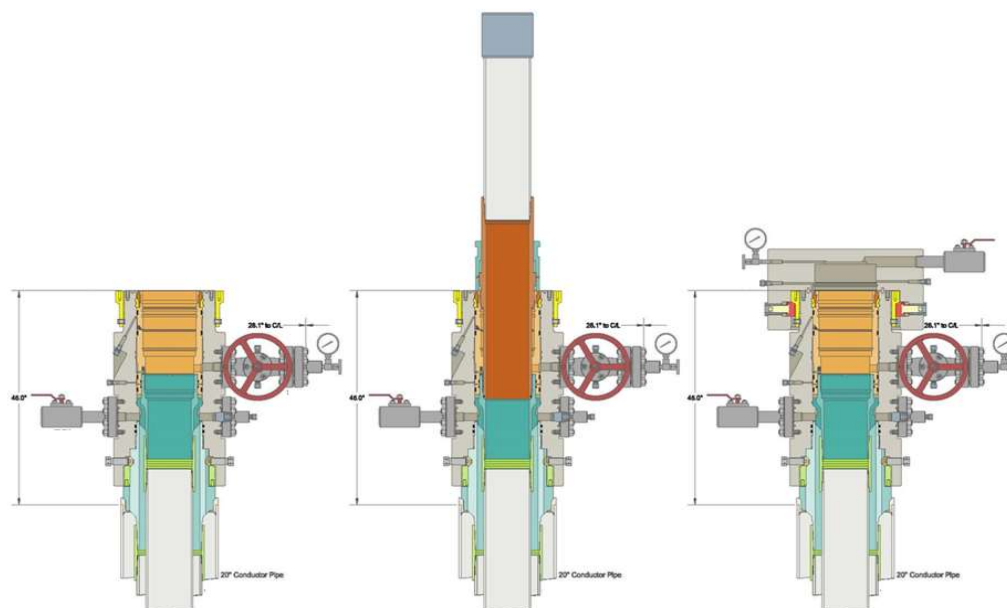
1. Drill Intermediate 1 hole to approved casing point. Trip out of hole with BHA to run Casing.
2. Remove wear bushing then run and land Intermediate 1 casing with mandrel hanger in wellhead.
3. Flow test – Confirm well is static.
4. Set Annular packoff and pressure test. Test to 5k.
5. Install BPV, 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
 - 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 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.



Run Intermediate Casing
Land Intermediate Casing on Mandrel Hanger
Cement Intermediate Casing
Retrieve Running Tool



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



Intermediate 2 Casing – 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.

Production Casing – 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.

62

API STANDARD 53

Table C.4—Initial Pressure Testing, Surface BOP Stacks

Component to be Pressure Tested	Pressure Test—Low Pressure ^{a,c} psig (MPa)	Pressure Test—High Pressure ^{a,c}	
		Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket
Annular preventer ^b	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 ^{a,c}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP
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 MASP for the well program, whichever is lower	
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program	

^a Pressure test evaluation periods shall be a minimum of five minutes.

No visible leaks.

The pressure shall remain stable during the evaluation period. The pressure shall not decrease below the intended test pressure.

^b Annular(s) and VBR(s) shall be pressure tested on the largest and smallest OD drill pipe to be used in well program.

^c For pad drilling operations, moving from one wellhead to another within the 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

^d For surface offshore operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented during the initial test. For land operations, the ram BOPs shall be pressure tested with the ram locks engaged and the closing and locking pressure vented at commissioning and annually.

* Adjustable chokes are not required to be full sealing devices. Pressure testing against a closed choke is not required.

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.

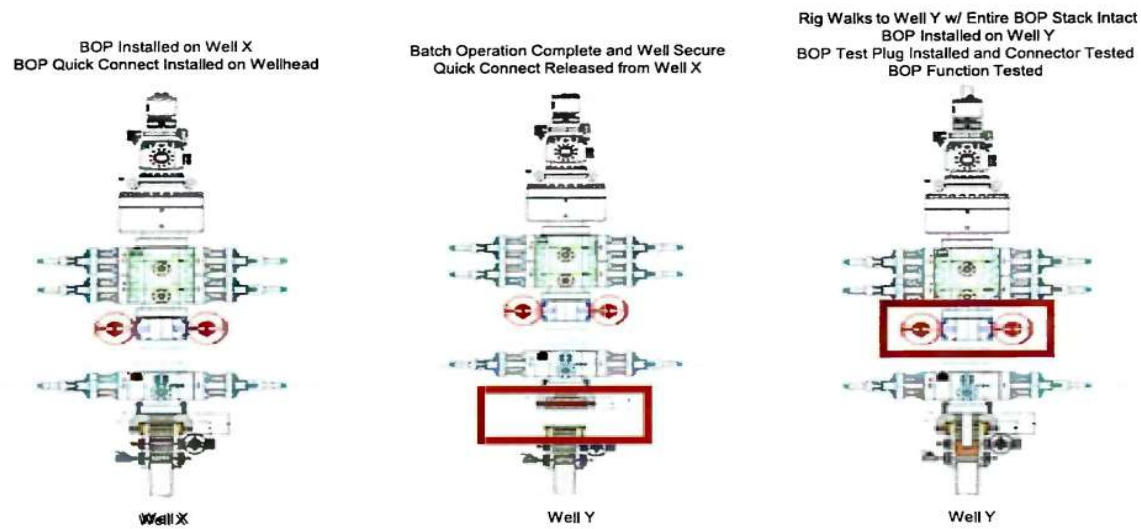
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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



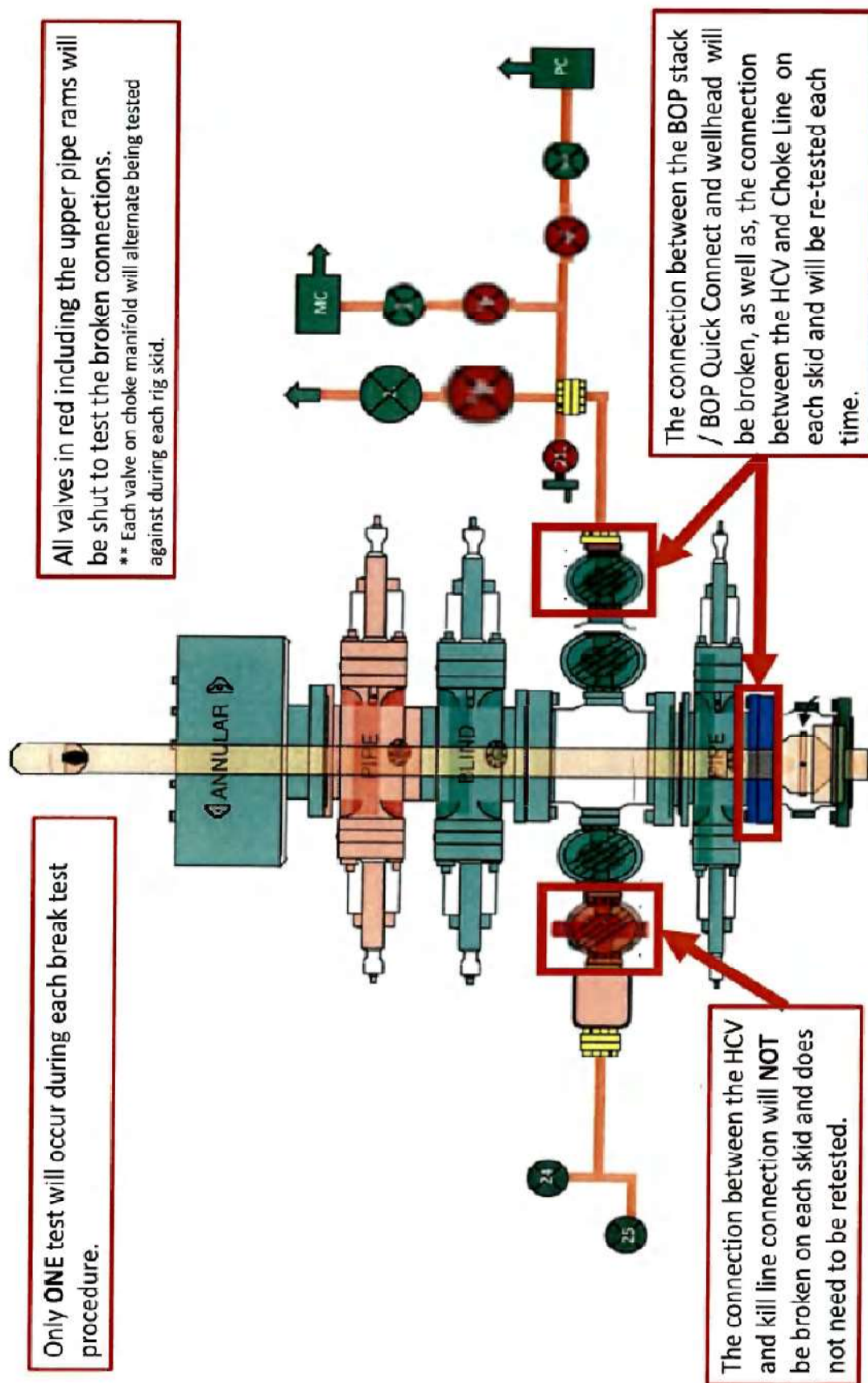
Summary

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.



Metal One Corp. Metal One	MO-FXL *1 Pipe Body: BMP P110HSCY MinYS125ksi Min95%WT Connection Data Sheet	CDS# Date	MO-FXL 8-5/8 32.0 P110HSCY MinYS125ksi Min95%WT 8-Sep-21
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MO-FXL

Geometry

Imperial

S.I.

Pipe Body

Grade *1	P110HSCY		P110HSCY	
MinYS *1	125	ksi	125	ksi
Pipe OD (D)	8 5/8	in	219.08	mm
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
PIN ID	7.921	in	201.19	mm
Make up Loss	3.847	in	97.71	mm
Box Critical Area	5.853	in ²	3686	mm ²
Joint load efficiency	69	%	69	%
Thread Taper	1 / 10 (1.2" per ft)			
Number of Threads	5 TPI			

Performance

Performance Properties for Pipe Body

S.M.Y.S. *1	1,144	kips	5,087	kN
M.I.Y.P. *1	9,690	psi	66.83	MPa
Collapse Strength *1	4,300	psi	29.66	MPa

Note S.M.Y.S.= Specified Minimum YIELD Strength of Pipe body
M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body
*1: BMP P110HSCY: MinYS125ksi, Min95%WT, Collapse Strength 4,300psi

Performance Properties for Connection

Tensile Yield load	789 kips (69% of S.M.Y.S.)
Min. Compression Yield	789 kips (69% of S.M.Y.S.)
Internal Pressure	6,780 psi (70% of M.I.Y.P.)
External Pressure	100% of Collapse Strength
Max. DLS (deg. /100ft)	29

Recommended Torque

Min.	13,600	ft-lb	18,400	N-m
Opti.	14,900	ft-lb	20,200	N-m
Max.	16,200	ft-lb	21,900	N-m
Operational Max.	28,400	ft-lb	38,500	N-m

Note : Operational Max. torque can be applied for high torque application

Metal One Corp. Metal One	GEOCONN-SC Pipe Body: SeAH P110RY (SMYS110ksi) & 95%RBW *1 Coupling: P110CY (SMYS110ksi) Connection Data Sheet	Page Date Rev.	MAI GC 5.5 20 SeAH PRY 95%RW SC-CplgOD 8.050 P110CY 29-Sep-21 0
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GEOCONN-SC

Geometry	Imperial		S.I.	
Pipe Body				
Grade *1	SeAH P110RY	-	SeAH P110RY	
SMYS	110	ksi	110	ksi
Pipe OD (D)	5.500	in	139.70	mm
Weight	20.00	lb/ft	29.80	kg/m
Wall Thickness (t)	0.361	in	9.17	mm
Pipe ID (d)	4.778	in	121.36	mm
Drift Dia.	4.653	in	118.19	mm
Connection				
Coupling SMYS	110	ksi	110	ksi
Coupling OD (Wsc1)	6.050	in	153.67	mm
Coupling Length (NL)	8.350	in	212.09	mm
Make up Loss	4.125	in	104.78	mm
Pipe Critical Area	5.83	in ²	3.760	mm ²
Box Critical Area	6.00	in ²	3.874	mm ²
Thread Taper	1 / 16 (3/4" per ft)			
Number of Threads	5 TPI			

Performance	Imperial		S.I.	
Performance Properties for Pipe Body				
S.M.Y.S.	641	kips	2,852	kN
M.I.Y.P. *1	13,720	psi	94.62	MPa
Collapse Strength	11,100	psi	76.55	MPa
Note S.M.Y.S. = Specified Minimum YIELD Strength of Pipe body M.I.Y.P. = Minimum Internal Yield Pressure of Pipe body *1 Pipe: SeAH P110RY (SMYS110ksi), Min Wall Thickness of Pipe Body: 95% of Nom wall				
Performance Properties for Connection				
Min. Connection Joint Strength	100%		of S.M.Y.S.	
Min. Compression Yield	100%		of S.M.Y.S.	
Internal Pressure	100%		of M.I.Y.P.	
External Pressure	100%		of Collapse Strength	
Max. DLS (deg. /100ft)	>90			
Recommended Torque				
Min.	14,600	ft-lb	19,700	N-m
Opti.	16,200	ft-lb	21,900	N-m
Max.	17,800	ft-lb	24,100	N-m
Operational Max.	19,500	ft-lb	26,400	N-m
Note : Operational Max. torque can be applied for high torque application				

Legal Notice

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information.

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to http://www.metalone.com/links/corrupt_images/topWebsiteTerms_Active_20333267_1.pdf the contents of which are incorporated by reference into this Connection Data Sheet.

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EARTHSTONE OPERATING LLC
WELL NAME & NO.:	PAKSE 3 SOUTH FED COM 322H
SURFACE HOLE FOOTAGE:	264'/N & 2008'/W
BOTTOM HOLE FOOTAGE:	2630'/N & 2310'/W
LOCATION:	Section 24, T.20 S., R.32 E., NMP
COUNTY:	Lea County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input type="radio"/> None	<input type="radio"/> Secretary	<input checked="" type="radio"/> R-111-P
Cave/Karst Potential	<input checked="" type="radio"/> Low	<input type="radio"/> Medium	<input type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input checked="" type="checkbox"/> 4 String	<input checked="" type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input checked="" type="checkbox"/> Casing 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 **24 hours in the Potash Area** 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 R111 Potash Areas 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. When the Communitization Agreement number is known, it shall also be on the sign.

(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 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 County

Call 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.
2. Wait on cement (WOC) for Potash Areas: 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 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity 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

1. 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

Action 320397

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 320397
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

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