Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

NIM

BUR	EAU OF LAND MANAG	EMENT			5. Lease Seriai No.	//NM16640B
Do not use this t	NOTICES AND REPORT form for proposals to c Use Form 3160-3 (APD	drill or to	re-enter an	,	6. If Indian, Allottee or	Tribe Name
SUBMIT IN	TRIPLICATE - Other instruction	ons on page	2		7. If Unit of CA/Agreen	ment, Name and/or No.
1. Type of Well	_				8 Well Name and No.	
Oil Well Gas V	_				o. Well Ivallie and Ivo.	PAKSE 5 SOUTH FED COM/114H
2. Name of Operator EARTHSTONE	OPERATING LLC				9. API Well No. 30025	52271
3a. Address 300 N MARIENFIELD S)	10. Field and Pool or E	•
		32) 695-422			SALT LAKE/BONE	
 Location of Well (Footage, Sec., T., F SEC 24/T20S/R32E/NMP 	R.,M., or Survey Description)				11. Country or Parish, S	State
SEC 24/1205/R32E/INIVIP					LEA/INIVI	
12. CHE	CK THE APPROPRIATE BOX(ES) TO INE	ICATE NATURE	OF NOTI	CE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSION			TYP	E OF ACT	ΓΙΟΝ	
Notice of Intent	Acidize	Deep	en	Produ	uction (Start/Resume)	Water Shut-Off
	Alter Casing	Hydra	ulic Fracturing	Recla	amation	Well Integrity
Subsequent Report	Casing Repair	=	Construction		mplete	Other
	Change Plans	=	and Abandon	_	oorarily Abandon	
Final Abandonment Notice	Convert to Injection	Plug	Back	Wate	r Disposal	
the Bond under which the work will completion of the involved operation	Il be perfonned or provide the Bo ons. If the operation results in a n tices must be filed only after all r	ond No. on finultiple com requirements	le with BLM/BIA. pletion or recompl , including reclam	Required etion in a	subsequent reports mus new interval, a Form 31	f all pertinent markers and zones. Attact be filed within 30 days following 60-4 must be filed once testing has bee e operator has detennined that the site
WELL NUMBER CHANGE FROM: PAKSE 5 SOUTH FEI	D COM 1114H					
TO: PAKSE 5 SOUTH FED C						
FIRST TAKE POINT	OIVI 3241 I,					
FROM: A-24-20S-32E; 100 FN	NL 990 FFI					
TO: A-24-20S-32E; 100 FNL,	·					
LAST TAKE POINT	,					
FROM: H-25-20S-32E; 2540 F	FNL, 990 FEL					
TO: H-25-20S-32E; 2542 FNL						
BOTTOM HOLE LOCATION						
Continued on page 3 additiona	al information					
14. I hereby certify that the foregoing is	strue and correct. Name (Printed	d/Typed)				
JENNIFER ELROD / Ph: (940) 452	2-6214		Senior Reg	gulatory A	nalyst	
Signature (Electronic Submission	on)		Date		02/19/20	24
	THE OBA OF E					

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by 03/22/2024 Petroleum Engineer CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved Title Date Conditions of approval, if any, are attached. Approval of this notice does not warrant or Office CARLSBAD 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.

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, 3162.3-4.

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

(Form 3160-5, page 2)

Additional Information

Additional Remarks

FROM: H-25-20S-32E; 2630 FNL, 990 FEL

TO: H-25-20S-32E; 2632 FNL, 330 FEL;

REVISIONS TO DRILLING PLAN AND CASING DESIGN ATTACHED

Location of Well

0. SHL: NENE / 351 FNL / 1279 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5649595 / LONG: -103.7152826 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 100 FNL / 990 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.565649 / LONG: -103.7143477 (TVD: 9052 feet, MD: 9500 feet) PPP: NESE / 2645 FNL / 991 FEL / TWSP: 20S / RANGE: 32E / SECTION: 24 / LAT: 32.5586565 / LONG: -103.7143483 (TVD: 9058 feet, MD: 12045 feet) BHL: SENE / 2630 FNL / 990 FEL / TWSP: 20S / RANGE: 32E / SECTION: 25 / LAT: 32.5441597 / LONG: -103.7143495 (TVD: 9067 feet, MD: 16735 feet)

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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

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

240

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

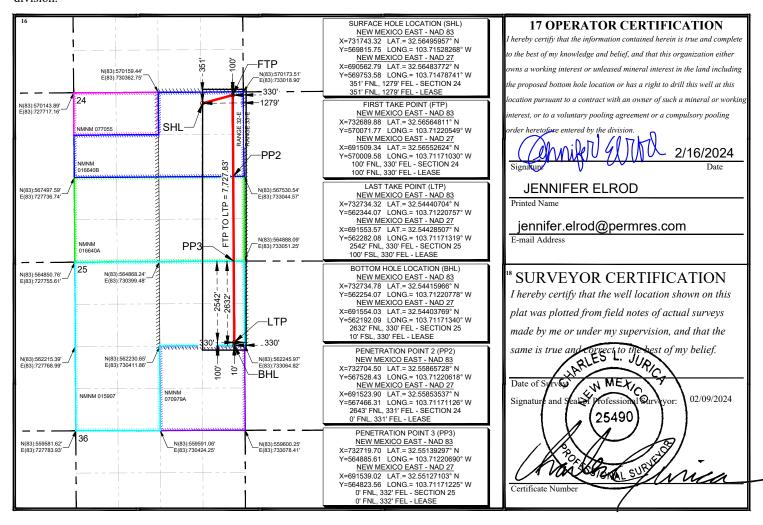
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Numbe 30-025-5227	2 Pool Code 53560	3 Pool Name SALT LAKE; BONE SPRING							
4 Property Code 335025		roperty Name SOUTH FED COM	6 Well Number 324H						
7 OGRID No. 331165		perator Name NE OPERATING LLC	9 Elevation 3545.19'						

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
A	24	20-S	32-E		351'	NORTH	1279'	EAST	LEA
			11 Bo	ttom Ho	le Location I	f Different Fro	m Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Н	25	20-S	32-E		2632'	NORTH	330'	EAST	LEA
12 Dedicated Acre	a 12 Ioint	Incil 14.6	Consolidation	Code 15 O	rder 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.



NEW MEXICO

(SP) LEA PASKE PROJECT PAKSE 5 SOUTH FED COM 324H

OWB PWP0

Anticollision Report

13 February, 2024

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: KB @ 3575.2usft

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft

Grid

Minimum Curvature

2.00 sigma Compass 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

Maximum centre distance of 800.0usft Pedal Curve Results Limited by: **Error Surface:** 2.00 **Sigma** Not applied Warning Levels Evaluated at: Casing Method:

Survey Tool Program Date 2/13/2024

> From То

> > 0.0

(usft)

(usft) Survey (Wellbore)

Tool Name

Description

18,652.1 PWP0 (OWB) **MWD** OWSG_Rev2_ MWD - Standard

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nnce Between Ellipses (usft)	Separation Factor	Warning
PASKE PROJECT						
PAKSE 5 SOUTH FED COM 115H - OWB - PWP0	2,325.3	2,323.9	57.1	40.7	3.476	CC, ES
PAKSE 5 SOUTH FED COM 115H - OWB - PWP0	2,400.0	2,398.0	57.9	40.9	3.413	SF
PAKSE 5 SOUTH FED COM 214H - OWB - PWP0	2,745.1	2,739.9	89.8	70.3	4.609	CC
PAKSE 5 SOUTH FED COM 214H - OWB - PWP0	3,000.0	2,994.4	90.8	69.3	4.237	ES
PAKSE 5 SOUTH FED COM 214H - OWB - PWP0	3,900.0	3,893.2	108.6	80.2	3.832	SF
PAKSE 5 SOUTH FED COM 224H - OWB - PWP0	2,230.0	2,229.3	28.5	12.8	1.812	CC, ES
PAKSE 5 SOUTH FED COM 224H - OWB - PWP0	9,400.0	9,392.9	110.4	37.3	1.510	SF
PAKSE 5 SOUTH FED COM 304H - OWB - PWP0	2,000.0	1,999.1	120.0	105.9	8.499	CC
PAKSE 5 SOUTH FED COM 304H - OWB - PWP0	2,100.0	2,097.0	120.4	105.5	8.122	ES
PAKSE 5 SOUTH FED COM 304H - OWB - PWP0	4,300.0	4,287.6	189.3	157.6	5.976	SF

Offset D	esign: ^{P/}	ASKE PRO)JECT -	PAKSE 5	SOUTH	FED COM	115H - OWB	- PWP0					Offset Site Error:	0.0 usft
Survey Pro	gram: 0-	-MWD	set	Semi N	faior Axis		Offset Wellbe	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.0 usft
		Measured Depth (usft)	Vertical Depth (usft)		Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.55	60.0	-0.6	60.0					
100.0	100.0	99.3	99.3	0.3	0.2	-0.55	60.0	-0.6	60.0	59.5	0.50	119.981		
200.0	200.0	199.3	199.3	0.6	0.6	-0.55	60.0	-0.6	60.0	58.8	1.22	49.332		
300.0	300.0	299.3	299.3	1.0	1.0	-0.55	60.0	-0.6	60.0	58.1	1.93	31.037		
400.0	400.0	399.3	399.3	1.3	1.3	-0.55	60.0	-0.6	60.0	57.4	2.65	22.641		
500.0	500.0	499.3	499.3	1.7	1.7	-0.55	60.0	-0.6	60.0	56.6	3.37	17.820		
600.0	600.0	599.3	599.3	2.0	2.0	-0.55	60.0	-0.6	60.0	55.9	4.08	14.692		
700.0	700.0	699.3	699.3	2.4	2.4	-0.55	60.0	-0.6	60.0	55.2	4.80	12.498		
800.0	800.0	799.3	799.3	2.8	2.8	-0.55	60.0	-0.6	60.0	54.5	5.52	10.874		
900.0	900.0	899.3	899.3	3.1	3.1	-0.55	60.0	-0.6	60.0	53.8	6.23	9.624		
1,000.0	1,000.0	999.3	999.3	3.5	3.5	-0.55	60.0	-0.6	60.0	53.1	6.95	8.631		
1,100.0	1,100.0	1,099.3	1,099.3	3.8	3.8	-0.55	60.0	-0.6	60.0	52.3	7.67	7.824		
1,200.0	1,200.0	1,199.3	1,199.3	4.2	4.2	-0.55	60.0	-0.6	60.0	51.6	8.39	7.155		
1,300.0	1,300.0	1,299.3	1,299.3	4.6	4.6	-0.55	60.0	-0.6	60.0	50.9	9.10	6.592		
1,400.0	1,400.0	1,399.3	1,399.3	4.9	4.9	-0.55	60.0	-0.6	60.0	50.2	9.82	6.111		
1,500.0	1,500.0	1,499.3	1,499.3	5.3	5.3	-0.55	60.0	-0.6	60.0	49.5	10.54	5.695		
1,600.0	1,600.0	1,599.3	1,599.3	5.6	5.6	-0.55	60.0	-0.6	60.0	48.7	11.25	5.332		

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Offset Do	esign: ^{P/}	ASKE PRO	JECT -	PAKSE 5	SOUTH F	ED COM	115H - OWB -	PWP0					Offset Site Error:	0.0 usft
Survey Pro		-MWD								Rule Assi	gned:		Offset Well Error:	0.0 usft
Refei Measured	rence Vertical	Off Measured	set Vertical		Major Axis Offset	Highside	Offset Wellbo		Dis Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
1,700.0	1,700.0	1,699.3	1,699.3	6.0	6.0	-0.55	60.0	-0.6	60.0	48.0	11.97	5.013		
1,800.0	1,800.0	1,799.3	1,799.3	6.3	6.3	-0.55	60.0	-0.6	60.0	47.3	12.69	4.729		
1,900.0	1,900.0	1,899.3	1,899.3	6.7	6.7	-0.55	60.0	-0.6	60.0	46.6	13.40	4.476		
2,000.0	2,000.0	1,999.3	1,999.3	7.1	7.1	-0.55	60.0	-0.6	60.0	45.9	14.12	4.249		
2,100.0	2,100.0	2,099.3	2,099.3	7.4	7.4	-73.70	60.0	-0.6	59.5	44.7	14.83	4.011		
2,200.0	2,199.8	2,199.1	2,199.1	7.8	7.8	-78.67	60.0	-0.6	58.2	42.7	15.54	3.748		
2,300.0	2,299.5	2,298.8	2,298.8	8.1	8.1	-87.25	60.0	-0.6	57.2	40.9	16.25	3.518		
2,325.3	2,324.6	2,323.9	2,323.9	8.2	8.2	-90.00	60.0	-0.6	57.1	40.7	16.43	3.476 CC		
2,400.0	2,398.7	2,398.0	2,398.0	8.5	8.5	-99.29	60.0	-0.6	57.9	40.9	16.96	3.413 SF		
2,500.0	2,497.5	2,496.8	2,496.8	8.8	8.8	-113.39	60.0	-0.6	62.4	44.7	17.67	3.529		
2,600.0	2,595.9	2,595.2	2,595.2	9.2	9.2	-126.20	60.0	-0.6	71.1	52.8	18.38	3.871		
2,700.0	2,694.4	2,693.7	2,693.7	9.6	9.5	-135.89	60.0	-0.6	82.7	63.6	19.08	4.333		
2,800.0	2,792.9	2,792.2	2,792.2	10.0	9.9	-143.08	60.0	-0.6	96.0	76.2	19.78	4.852		
2,900.0	2,891.4	2,890.7	2,890.7	10.4	10.3	-148.48	60.0	-0.6	110.4	89.9	20.49	5.391		
3,000.0	2,989.9	2,989.2	2,989.2	10.8	10.6	-152.61	60.0	-0.6	125.6	104.4	21.19	5.928		
3,100.0	3,088.3	3,092.1	3,092.1	11.2	11.0	-155.90	60.0	0.9	139.9	118.0	21.91	6.387		
3,200.0	3,186.8	3,196.6	3,196.5	11.6	11.3	-158.50	60.1	6.2	151.0	128.4	22.60	6.681		
3,300.0	3,285.3	3,301.8	3,301.3	12.0	11.7	-160.68	60.3	15.3	158.6	135.4	23.27	6.818		
3,400.0	3,383.8	3,407.6	3,406.2	12.4	12.1	-162.66	60.6	28.4	162.8	138.9	23.92	6.808		
3,500.0	3,482.3	3,513.5	3,510.7	12.8	12.4	-164.57	61.0	45.3	163.5	139.0	24.54	6.661		
3,600.0	3,580.8	3,615.4	3,610.8	13.2	12.8	-166.46	61.4	64.5	161.4	136.2	25.22	6.402		
3,700.0	3,679.2	3,715.2	3,708.8	13.6	13.2	-168.36	61.8	83.6	159.3	133.4	25.93	6.145		
3,800.0	3,777.7	3,815.0	3,806.8	14.1	13.6	-170.31	62.2	102.6	157.4	130.7	26.64	5.908		
3,900.0	3,876.2	3,914.9	3,904.8	14.5	13.9	-172.30	62.6	121.7	155.6	128.3	27.36	5.688		
4,000.0	3,974.7	4,014.7	4,002.8	14.9	14.3	-174.34	63.0	140.7	154.1	126.0	28.08	5.486		
4,100.0	4,073.2	4,114.6	4,100.8	15.3	14.7	-176.42	63.4	159.7	152.7	123.9	28.82	5.300		
4,200.0	4,171.6	4,214.4	4,198.8	15.7	15.1	-178.53	63.8	178.8	151.6	122.0	29.55	5.129		
4,300.0	4,270.1	4,314.2	4,296.8	16.2	15.5	179.33	64.2	197.8	150.6	120.3	30.30	4.971		
4,400.0	4,368.6	4,414.1	4,394.8	16.6	15.9	177.17	64.6	216.9	149.9	118.9	31.06	4.827		
4,500.0	4,467.1	4,513.9	4,492.8	17.0	16.3	174.99	65.0	235.9	149.4	117.6	31.82	4.695		
4,600.0	4,565.6	4,613.7	4,590.8	17.5	16.8	172.79	65.4	255.0	149.1	116.5	32.60	4.574		
4,683.2	4,647.5	4,696.8	4,672.3	17.8	17.1	170.96	65.7	270.8	149.0	115.8	33.25	4.482		
4,700.0	4,664.0	4,713.6	4,688.8	17.9	17.2	170.59	65.8	274.0	149.0	115.6	33.38	4.464		
4,800.0	4,762.5	4,813.4	4,786.8	18.3	17.6	168.40	66.2	293.1	149.2	115.0	34.18	4.364		
4,900.0	4,861.0	4,913.2	4,884.8	18.8	18.0	166.21	66.6	312.1	149.5	114.5	34.99	4.273		
5,000.0	4,959.5	5,013.1	4,982.8	19.2	18.4	164.03	67.0	331.1	150.1	114.3	35.82	4.192		
5,100.0	5,058.0	5,112.9	5,080.8	19.6	18.9	161.87	67.4	350.2	150.9	114.3	36.65	4.118		
5,200.0	5,156.4	5,212.7	5,178.8	20.1	19.3	159.74	67.8	369.2	151.9	114.4	37.50	4.052		
5,300.0	5,254.9	5,312.6	5,276.8	20.5	19.7	157.64	68.2	388.3	153.2	114.8	38.36	3.993		
5,400.0	5,353.4	5,412.4	5,374.8	21.0	20.2	155.58	68.6	407.3	154.6	115.4	39.23	3.940		
5,500.0	5,451.9	5,512.3	5,472.8	21.4	20.6	153.56	69.0	426.4	156.2	116.1	40.11	3.894		
5,600.0	5,550.4	5,612.1	5,570.8	21.8	21.0	151.58	69.4	445.4	158.0	117.0	41.00	3.854		
5,700.0	5,648.9	5,711.9	5,668.8	22.3	21.5	149.64	69.8	464.5	160.0	118.1	41.90	3.818		
5,800.0	5,747.3	5,811.8	5,766.8	22.7	21.9	147.76	70.2	483.5	162.2	119.4	42.81	3.788		
5,900.0	5,845.8	5,911.6	5,864.8	23.2	22.3	145.93	70.6	502.6	164.5	120.8	43.73	3.763		
6,000.0	5,944.3	6,011.4	5,962.8	23.6	22.8	144.15	71.0	521.6	167.0	122.4	44.65	3.741		
6,100.0	6,042.8	6,111.3	6,060.8	24.0	23.2	142.42	71.4	540.6	169.7	124.1	45.58	3.723		
6,200.0	6,141.3	6,211.1	6,158.8	24.5	23.7	140.75	71.8	559.7	172.5	126.0	46.51	3.709		
6,300.0	6,239.7	6,310.9	6,256.8	24.9	24.1	139.14	72.2	578.7	175.5	128.0	47.45	3.698		
6,400.0	6,338.2	6,410.8	6,354.8	25.4	24.6	137.58	72.6	597.8	178.6	130.2	48.39	3.690		
6,500.0	6,436.7	6,510.6	6,452.8	25.8	25.0	136.07	73.0	616.8	181.8	132.5	49.33	3.685		
6,600.0	6,535.2	6,610.4	6,550.8	26.3	25.5	134.62	73.4	635.9	185.1	134.9	50.28	3.682		

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

J.1.001 D	oo.g						115H - OWB						Offset Site Error:	0.0 usf
urvey Pro	gram: 0-	MWD		0			O#4 \M-111-	0	Di-	Rule Assig	gned:		Offset Well Error:	0.0 us
Refe Measured	rence Vertical	Off: Measured	set Vertical	Reference	lajor Axis Offset	Highside	Offset Wellb	ore Centre	Between	tance Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		·	
6,700.0	6,633.7	6,710.3	6,648.8	26.7	25.9	133.22	73.8	654.9	188.6	137.4	51.22	3.682		
6,800.0	6,732.1	6,810.1	6,746.8	27.1	26.3	131.87	74.2	674.0	192.1	140.0	52.17	3.683		
6,900.0	6,830.6	6,910.0	6,844.9	27.6	26.8	130.57	74.6	693.0	195.8	142.7	53.12	3.687		
7,000.0	6,929.1	7,009.8	6,942.9	28.0	27.2	129.32	75.0	712.1	199.6	145.5	54.06	3.692		
7,100.0	7,027.6	7,109.6	7,040.9	28.5	27.7	128.11	75.5	731.1	203.4	148.4	55.01	3.698		
7,200.0	7,126.1	7,209.5	7,138.9	28.9	28.2	126.95	75.9	750.1	207.4	151.4	55.96	3.706		
7,300.0	7,224.5	7,309.3	7,236.9	29.4	28.6	125.84	76.3	769.2	211.4	154.5	56.91	3.715		
7,400.0	7,323.0	7,409.1	7,334.9	29.8	29.1	124.76	76.7	788.2	215.5	157.7	57.85	3.725		
7,500.0	7,421.5	7,509.0	7,432.9	30.3	29.5	123.73	77.1	807.3	219.7	160.9	58.80	3.736		
7,600.0	7,520.0	7,608.8	7,530.9	30.7	30.0	122.73	77.5	826.3	223.9	164.2	59.74	3.748		
7,700.0	7,618.5	7,708.6	7,628.9	31.1	30.4	121.78	77.9	845.4	228.2	167.5	60.69	3.761		
7,745.5	7,663.3	7,754.0	7,673.4	31.3	30.6	121.35	78.0	854.0	230.2	169.1	61.11	3.767		
7,800.0	7,717.0	7,808.5	7,726.9	31.6	30.9	120.78	78.3	864.4	232.3	170.7	61.63	3.770		
7,900.0	7,816.1	7,908.2	7,824.8	32.0	31.3	119.17	78.7	883.4	235.0	172.4	62.60	3.754		
8,000.0	7,915.5	8,007.1	7,921.9	32.4	31.8	116.93	79.1	902.0	236.3	172.7	63.56	3.717		
8,100.0	8,015.3	8,105.4	8,019.0	32.8	32.2	114.66	79.4	917.6	236.9	172.4	64.47	3.674		
8,200.0	8,115.2	8,204.1	8,116.8	33.1	32.6	112.42	79.6	929.9	236.8	171.5	65.30	3.626		
8,245.5	8,160.7	8,249.1	8,161.6	33.2	32.8	-177.05	79.7	934.4	236.6	170.9	65.66	3.603		
8,300.0	8,215.2	8,303.1	8,215.5	33.4	33.0	-178.13	79.8	938.9	236.3	170.2	66.07	3.576		
8,400.0	8,315.2	8,402.6	8,314.8	33.7	33.3	-179.48	80.0	944.4	236.1	169.3	66.78	3.535		
8,500.0	8,415.2	8,502.4	8,414.6	34.0	33.7	-180.00	80.0	946.5	236.0	168.6	67.44	3.500		
8,514.1	8,429.3	8,516.4	8,428.6	34.1	33.7	180.00	80.0	946.6	236.0	168.5	67.53	3.495		
8,600.0	8,515.2	8,600.0	8,512.2	34.3	34.0	180.00	80.0	946.6	236.0	168.0	68.04	3.469		
8,700.0	8,615.2	8,666.4	8,578.3	34.6	34.2	179.99	74.7	946.6	244.0	176.2	67.81	3.598		
8,800.0	8,715.2	8,730.2	8,640.6	35.0	34.4	179.98	61.1	946.7	265.4	198.8	66.62	3.984		
8,900.0	8,815.2	8,789.4	8,696.2	35.3	34.5	179.95	41.1	946.8	299.3	234.6	64.71	4.625		
9,000.0	8,915.2	8,842.9	8,744.1	35.6	34.7	179.93	17.3	946.9	343.9	281.6	62.38	5.514		
9,100.0	9,015.2	8,890.3	8,784.1	35.9	34.8	179.91	-8.3	947.1	397.8	337.9	59.89	6.642		
9,200.0	9,115.2	8,931.9	8,816.9	36.2	34.9	179.89	-33.8	947.2	459.3	401.9	57.45	7.995		
9,300.0	9,215.2	8,968.2	8,843.6	36.5	35.0	179.88	-58.3	947.4	527.0	471.8	55.16	9.553		
9,400.0	9,315.2	9,000.0	8,865.4	36.9	35.0	179.86	-81.5	947.5	599.7	546.6	53.13	11.289		
9,500.0	9,415.2	9,025.0	8,881.5	37.2	35.1	179.85	-100.6	947.6	676.6	625.4	51.17	13.221		
9,600.0	9,515.2	9,050.0	8,896.5	37.5	35.1	179.85	-120.6	947.7	756.7	707.0	49.67	15.234		

Anticollision Report

Company: NEW MEXICO

Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Offset De		MWD								Rule Assid	unod:		Offset Site Error:	0.0 usf
urvey Prog Refer		MWD Off:	set	Semi N	lajor Axis		Offset Wellbo	ore Centre	Dist	Ruie Assig	gnea:		Offset Well Error:	0.0 ust
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.56	90.0	-0.9	90.0					
100.0	100.0	99.1	99.1	0.3	0.2	-0.56	90.0	-0.9	90.0	89.5	0.50	180.139		
200.0	200.0	199.1	199.1	0.6	0.6	-0.56	90.0	-0.9	90.0	88.8	1.22	74.040		
300.0	300.0	299.1	299.1	1.0	1.0	-0.56	90.0	-0.9	90.0	88.1	1.93	46.573		
400.0	400.0	399.1	399.1	1.3	1.3	-0.56	90.0	-0.9	90.0	87.4	2.65	33.970		
500.0	500.0	499.1	499.1	1.7	1.7	-0.56	90.0	-0.9	90.0	86.6	3.37	26.736		
600.0	600.0	599.1	599.1	2.0	2.0	-0.56	90.0	-0.9	90.0	85.9	4.08	22.042		
700.0	700.0	699.1	699.1	2.4	2.4	-0.56	90.0	-0.9	90.0	85.2	4.80	18.750		
800.0	800.0	799.1	799.1	2.8	2.8	-0.56	90.0	-0.9	90.0	84.5	5.52	16.313		
900.0	900.0	899.1	899.1	3.1	3.1	-0.56	90.0	-0.9	90.0	83.8	6.23	14.437		
1,000.0	1,000.0	999.1	999.1	3.5	3.5	-0.56	90.0	-0.9	90.0	83.1	6.95	12.948		
1,100.0	1,100.0	1,099.1	1,099.1	3.8	3.8	-0.56	90.0	-0.9	90.0	82.3	7.67	11.737		
1,200.0	1,200.0	1,199.1	1,199.1	4.2	4.2	-0.56	90.0	-0.9	90.0	81.6	8.39	10.734		
1,300.0	1,300.0	1,299.1	1,299.1	4.6	4.5	-0.56	90.0	-0.9	90.0	80.9	9.10	9.888		
1,400.0	1,400.0	1,399.1	1,399.1	4.9	4.9	-0.56	90.0	-0.9	90.0	80.2	9.82	9.166		
1,500.0	1,500.0	1,499.1	1,499.1	5.3	5.3	-0.56	90.0	-0.9	90.0	79.5	10.54	8.543		
1,600.0	1,600.0	1,599.1	1,599.1	5.6	5.6	-0.56	90.0	-0.9	90.0	78.8	11.25	7.998		
1,700.0	1,700.0	1,699.1	1,699.1	6.0	6.0	-0.56	90.0	-0.9	90.0	78.0	11.97	7.519		
1,800.0	1,800.0	1,799.1	1,799.1	6.3	6.3	-0.56	90.0	-0.9	90.0	77.3	12.69	7.094		
1,900.0	1,900.0	1,899.1	1,899.1	6.7	6.7	-0.56	90.0	-0.9	90.0	76.6	13.40	6.715		
2,000.0	2,000.0	1,999.1	1,999.1	7.1	7.1	-0.56	90.0	-0.9	90.0	75.9	14.12	6.374		
2,100.0	2,100.0	2,098.0	2,098.0	7.4	7.4	-72.15	90.6	0.7	90.1	75.2	14.82	6.077		
2,200.0	2,199.8	2,196.9	2,196.7	7.8	7.8	-72.25	92.5	5.4	90.3	74.8	15.51	5.820		
2,300.0	2,299.5	2,295.8	2,295.3	8.1	8.1	-72.41	95.6	13.3	90.7	74.5	16.21	5.594		
2,400.0	2,398.7	2,395.2	2,394.0	8.5	8.5	-72.83	99.8	24.1	91.1	74.2	16.92	5.384		
2,500.0	2,497.5	2,495.1	2,493.2	8.8	8.8	-75.07	104.2	35.5	90.7	73.1	17.64	5.141		
2,600.0	2,595.9	2,595.0	2,592.3	9.2	9.2	-78.39	108.7	46.8	90.1	71.7	18.38	4.901		
2,700.0	2,694.4	2,694.9	2,691.4	9.6	9.5	-81.75	113.1	58.1	89.8	70.7	19.13	4.693		
2,745.1	2,738.9	2,739.9	2,736.1	9.8	9.7	-83.27	115.1	63.3	89.8	70.3	19.48	4.609 CC		
2,800.0	2,792.9	2,794.7	2,790.5	10.0	9.9	-85.12	117.5	69.5	89.8	69.9	19.89	4.515		
2,900.0	2,891.4	2,894.6	2,889.6	10.4	10.3	-88.47	122.0	80.8	90.1	69.5	20.66	4.364		
3,000.0	2,989.9	2,994.4	2,988.8	10.8	10.7	-91.79	126.4	92.1	90.8	69.3	21.42	4.237 ES		
3,100.0	3,088.3	3,094.3	3,087.9	11.2	11.0	-95.06	130.8	103.5	91.7	69.5	22.20	4.132		
3,200.0	3,186.8	3,194.2	3,187.0	11.6	11.4	-98.24	135.3	114.8	92.9	70.0	22.97	4.046		
3,300.0	3,285.3	3,294.0	3,286.1	12.0	11.8	-101.34	139.7	126.1	94.4	70.7	23.74	3.978		
3,400.0	3,383.8	3,393.9	3,385.2	12.4	12.2	-104.33	144.1	137.5	96.2	71.7	24.51	3.925		
3,500.0	3,482.3	3,493.7	3,484.3	12.8	12.6	-107.20	148.6	148.8	98.2	73.0	25.28	3.885		
3,600.0	3,580.8	3,593.6	3,583.5	13.2	13.0	-109.96	153.0	160.1	100.5	74.4	26.05	3.858		
3,700.0	3,679.2	3,693.5	3,682.6	13.6	13.3	-112.58	157.5	171.5	103.0	76.2	26.81	3.841		
3,800.0	3,777.7	3,793.3	3,781.7	14.1	13.7	-115.08	161.9	182.8	105.7	78.1	27.57	3.832		
3,900.0	3,876.2	3,893.2	3,880.8	14.5	14.1	-117.45	166.3	194.1	108.6	80.2	28.33	3.832 SF		
4,000.0	3,974.7	3,993.0	3,979.9	14.9	14.5	-119.69	170.8	205.5	111.6	82.5	29.09	3.837		
4,100.0	4,073.2	4,092.9	4,079.0	15.3	14.9	-121.81	175.2	216.8	114.8	85.0	29.84	3.849		
4,200.0	4,171.6	4,192.8	4,178.2	15.7	15.3	-123.81	179.6	228.1	118.2	87.6	30.59	3.865		
4,300.0	4,270.1	4,292.6	4,277.3	16.2	15.7	-125.70	184.1	239.5	121.7	90.4	31.33	3.884		
4,400.0	4,368.6	4,392.5	4,376.4	16.6	16.1	-127.49	188.5	250.8	125.3	93.3	32.08	3.907		
4,500.0	4,467.1	4,492.3	4,475.5	17.0	16.5	-129.17	192.9	262.1	129.1	96.3	32.82	3.933		
4,600.0	4,565.6	4,590.5	4,573.0	17.5	16.9	-130.93	197.1	272.7	133.3	99.8	33.55	3.973		
4,700.0	4,664.0	4,687.2	4,669.4	17.9	17.2	-133.51	200.1	280.4	139.7	105.4	34.24	4.079		
4,800.0	4,762.5	4,783.2	4,765.2	18.3	17.6	-136.76	201.9	285.0	148.6	113.7	34.87	4.262		
4,900.0	4,861.0	4,878.3	4,860.3	18.8	17.9	-140.40	202.5	286.6	160.4	125.0	35.44	4.526		
5,000.0	4,959.5	4,976.6	4,958.6	19.2	18.2	-144.01	202.5	286.6	174.2	138.2	36.05	4.832		

Anticollision Report

Company: NEW MEXICO

Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database: Offset TVD Reference: Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

_		A AVA/D											Offset Site Error:	0.0 us
urvey Pro Refe	rence	-MWD Offs	set	Semi N	Major Axis		Offset Wellb	ore Centre	Dist	Rule Assig	gned:		Offset Well Error:	0.0 us
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,058.0	5,075.1	5,057.1	19.6	18.6	-147.10	202.5	286.6	188.6	151.9	36.69	5.141		
5,200.0	5,156.4	5,173.6	5,155.5	20.1	18.9	-149.75	202.5	286.6	203.5	166.1	37.33	5.450		
5,300.0	5,254.9	5,272.0	5,254.0	20.5	19.2	-152.03	202.5	286.6	218.7	180.7	37.99	5.757		
5,400.0	5,353.4	5,370.5	5,352.5	21.0	19.6	-154.02	202.5	286.6	234.2	195.6	38.65	6.059		
5,500.0	5,451.9	5,469.0	5,451.0	21.4	19.9	-155.76	202.5	286.6	250.0	210.7	39.33	6.356		
5,600.0	5,550.4	5,567.5	5,549.5	21.8	20.3	-157.29	202.5	286.6	266.0	225.9	40.01	6.647		
5,700.0	5,648.9	5,666.0	5,648.0	22.3	20.6	-158.65	202.5	286.6	282.1	241.4	40.70	6.931		
5,800.0	5,747.3	5,764.4	5,746.4	22.7	20.9	-159.86	202.5	286.6	298.4	257.0	41.39	7.209		
5,900.0	5,845.8	5,862.9	5,844.9	23.2	21.3	-160.95	202.5	286.6	314.7	272.7	42.08	7.479		
6,000.0	5,944.3	5,961.4	5,943.4	23.6	21.6	-161.93	202.5	286.6	331.2	288.5	42.78	7.742		
6,100.0	6,042.8	6,059.9	6,041.9	24.0	22.0	-162.81	202.5	286.6	347.8	304.3	43.48	7.998		
6,200.0	6,141.3	6,158.4	6,140.4	24.5	22.3	-163.62	202.5	286.6	364.5	320.3	44.19	8.248		
6,300.0	6,239.7	6,256.8	6,238.8	24.9	22.7	-164.36	202.5	286.6	381.2	336.3	44.89	8.490		
6,400.0	6,338.2	6,355.3	6,337.3	25.4	23.0	-165.03	202.5	286.6	397.9	352.3	45.60	8.726		
6,500.0	6,436.7	6,453.8	6,435.8	25.8	23.3	-165.65	202.5	286.6	414.7	368.4	46.31	8.956		
6,600.0	6,535.2	6,552.3	6,534.3	26.3	23.7	-166.22	202.5	286.6	431.6	384.6	47.02	9.179		
6,700.0	6,633.7	6,650.8	6,632.8	26.7	24.0	-166.75	202.5	286.6	448.5	400.8	47.73	9.396		
6,800.0	6,732.1	6,749.2	6,731.2	27.1	24.4	-167.24	202.5	286.6	465.4	417.0	48.45	9.608		
6,900.0	6,830.6	6,847.7	6,829.7	27.6	24.7	-167.69	202.5	286.6	482.4	433.2	49.16	9.813		
7,000.0	6,929.1	6,946.2	6,928.2	28.0	25.1	-168.12	202.5	286.6	499.4	449.5	49.87	10.013		
7,100.0	7,027.6	7,044.7	7,026.7	28.5	25.4	-168.51	202.5	286.6	516.4	465.8	50.59	10.208		
7,200.0	7,126.1	7,143.2	7,125.2	28.9	25.8	-168.88	202.5	286.6	533.4	482.1	51.30	10.398		
7,200.0	7,120.1	7,143.2	7,123.2	29.4	26.1	-169.23	202.5	286.6	550.5	498.5	52.02	10.582		
			7,322.1				202.5	286.6			52.74	10.762		
7,400.0 7,500.0	7,323.0 7,421.5	7,340.1 7,438.6	7,322.1	29.8 30.3	26.4 26.8	-169.56 -169.87	202.5	286.6	567.6 584.7	514.8 531.2	53.46	10.762		
7,600.0	7,520.0	7,537.1	7,519.1	30.7	27.1	-170.16	202.5	286.6	601.8	547.6	54.17	11.108		
7,700.0	7,618.5	7,635.6	7,617.6	31.1	27.5	-170.43	202.5	286.6	618.9	564.0	54.89	11.275		
7,745.5	7,663.3	7,680.4	7,662.4	31.3	27.6	-170.55	202.5	286.6	626.7	571.5	55.22	11.349		
7,800.0	7,717.0	7,734.1	7,716.1	31.6	27.8	-170.71	202.5	286.6	635.5	579.9	55.61	11.428		
7,900.0	7,816.1	7,833.2	7,815.2	32.0	28.2	-170.95	202.5	286.6	649.1	592.8	56.33	11.524		
8,000.0	7,915.5	7,932.6	7,914.6	32.4	28.5	-171.13	202.5	286.6	659.3	602.3	57.04	11.558		
8,100.0	8,015.3	8,032.4	8,014.4	32.8	28.9	-171.24	202.5	286.6	666.0	608.3	57.75	11.532		
8,200.0	8,115.2	8,132.3	8,114.3	33.1	29.2	-171.29	202.5	286.6	669.3	610.9	58.46	11.450		
8,245.5	8,160.7	8,177.8	8,159.8	33.2	29.4	-99.76	202.5	286.6	669.7	610.9	58.78	11.394		
8,300.0	8,215.2	8,232.3	8,214.3	33.4	29.6	-99.76	202.5	286.6	669.7	610.5	59.15	11.321		
8,400.0	8,315.2	8,332.3	8,314.3	33.7	29.9	-99.76	202.5	286.6	669.7	609.8	59.85	11.190		
8,500.0	8,415.2	8,432.3	8,414.3	34.0	30.3	-99.76	202.5	286.6	669.7	609.1	60.54	11.062		
8,600.0	8,515.2	8,532.3	8,514.3	34.3	30.6	-99.76	202.5	286.6	669.7	608.5	61.24	10.936		
8,700.0	8,615.2	8,632.3	8,614.3	34.6	31.0	-99.76	202.5	286.6	669.7	607.8	61.93	10.813		
8,800.0	8,715.2	8,732.3	8,714.3	35.0	31.3	-99.76	202.5	286.6	669.7	607.1	62.63	10.693		
8,900.0	8,815.2	8,832.3	8,814.3	35.3	31.7	-99.76	202.5	286.6	669.7	606.4	63.32	10.576		
9,000.0	8,915.2	8,932.3	8,914.3	35.6	32.1	-99.76	202.5	286.6	669.7	605.7	64.02	10.460		
9,100.0	9,015.2	9,032.3	9,014.3	35.9	32.4	-99.76	202.5	286.6	669.7	605.0	64.72	10.348		
9,110.0	9,025.2	9,042.3	9,024.3	35.9	32.4	-99.76	202.5	286.6	669.7	604.9	64.79	10.337		
9,200.0	9,115.2	9,121.6	9,103.5	36.2	32.7	-99.95	200.3	286.6	670.1	604.8	65.30	10.263		
9,300.0	9,215.2	9,200.0	9,180.6	36.5	33.0	-101.11	186.4	286.7	673.4	607.7	65.69	10.250		
9,400.0	9,315.2	9,275.0	9,251.2	36.9	33.2	-103.19	161.4	286.8	680.6	614.6	65.94	10.322		
9,500.0	9,415.2	9,336.3	9,305.5	37.2	33.3	-105.50	133.1	287.0	693.1	627.3	65.82	10.531		
9,600.0	9,515.2	9,391.2	9,350.7	37.5	33.4	-107.99	101.9	287.1	712.4	647.0	65.35	10.900		
9,700.0	9,615.2	9,437.9	9,386.1	37.8	33.5	-110.35	71.5	287.3	739.3	674.8	64.48	11.465		
9,800.0	9,715.2	9,475.0	9,412.0	38.1	33.6	-112.36	44.9	287.5	774.2	711.0	63.17	12.254		

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA PASKE PROJECT Reference Site:

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

							224H - OWB	0					Offset Site Error:	0.0 us
rvey Prog Referdeasured	ence	-MWD Off Measured	set	Semi M Reference	Major Axis Offset	Higheide	Offset Wellb	ore Centre		Rule Assig tance Between		Separation	Offset Well Error:	0.0 us
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)		Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.55	30.0	-0.3	30.0					
100.0	100.0	99.6	99.6	0.3	0.3	-0.55	30.0	-0.3	30.0	29.5	0.50	59.883		
200.0	200.0	199.6	199.6	0.6	0.6	-0.55	30.0	-0.3	30.0	28.8	1.22	24.642		
300.0	300.0	299.6	299.6	1.0	1.0	-0.55	30.0	-0.3	30.0	28.1	1.93	15.509		
400.0	400.0	399.6	399.6	1.3	1.3	-0.55	30.0	-0.3	30.0	27.4	2.65	11.315		
500.0	500.0	499.6	499.6	1.7	1.7	-0.55	30.0	-0.3	30.0	26.6	3.37	8.907		
600.0	600.0	599.6	599.6	2.0	2.0	-0.55	30.0	-0.3	30.0	25.9	4.09	7.344		
700.0	700.0	699.6	699.6	2.4	2.4	-0.55	30.0	-0.3	30.0	25.2	4.80	6.247		
800.0	800.0	799.6	799.6	2.8	2.8	-0.55	30.0	-0.3	30.0	24.5	5.52	5.436		
900.0	900.0	899.6	899.6	3.1	3.1	-0.55	30.0	-0.3	30.0	23.8	6.24	4.811		
1,000.0	1,000.0	999.6	999.6	3.5	3.5	-0.55	30.0	-0.3	30.0	23.0	6.95	4.315		
1,100.0	1,100.0	1,099.6	1,099.6	3.8	3.8	-0.55	30.0	-0.3	30.0	22.3	7.67	3.912		
1,200.0	1,200.0	1,199.6	1,199.6	4.2	4.2	-0.55	30.0	-0.3	30.0	21.6	8.39	3.577		
1,300.0	1,300.0	1,299.6	1,299.6	4.6	4.6	-0.55	30.0	-0.3	30.0	20.9	9.10	3.295		
1,400.0 1,500.0	1,400.0 1,500.0	1,399.6 1,499.6	1,399.6 1,499.6	4.9 5.3	4.9 5.3	-0.55 -0.55	30.0 30.0	-0.3 -0.3	30.0 30.0	20.2 19.5	9.82 10.54	3.055 2.847		
1,600.0	1,600.0	1,599.6	1,599.6	5.6	5.6	-0.55	30.0	-0.3	30.0	18.7	11.25	2.666		
1,700.0	1,700.0	1,699.6	1,699.6	6.0	6.0	-0.55	30.0	-0.3	30.0	18.0	11.97	2.506		
1,800.0	1,800.0	1,799.6	1,799.6	6.3	6.3	-0.55	30.0	-0.3	30.0	17.3	12.69	2.364		
1,900.0	1,900.0	1,899.6	1,899.6	6.7	6.7	-0.55	30.0	-0.3	30.0	16.6	13.41	2.238		
2,000.0	2,000.0	1,999.6	1,999.6	7.1	7.1	-0.55	30.0	-0.3	30.0	15.9	14.12	2.124		
2,100.0	2,100.0	2,099.6	2,099.6	7.4	7.4	-75.33	30.0	-0.3	29.5	14.7	14.83	1.990		
2,200.0	2,199.8	2,199.4	2,199.4	7.8	7.8	-85.51	30.0	-0.3	28.6	13.1	15.54	1.843		
2,230.0	2,229.7	2,229.3	2,229.3	7.9	7.9	-90.00	30.0	-0.3	28.5	12.8	15.75	1.812 CC,	ES	
2,300.0	2,299.5	2,299.1	2,299.1	8.1	8.1	-102.70	30.0	-0.3	29.3	13.0	16.25	1.802		
2,400.0	2,398.7	2,398.3	2,398.3	8.5	8.5	-122.91	30.0	-0.3	34.1	17.1	16.95	2.012		
2,500.0	2,497.5	2,497.1	2,497.1	8.8	8.8	-139.80	30.0	-0.3	44.6	27.0	17.66	2.527		
2,600.0	2,595.9	2,597.4	2,597.4	9.2	9.2	-150.26	30.3	1.3	57.5	39.2	18.35	3.134		
2,700.0	2,694.4	2,698.7	2,698.6	9.6	9.5	-156.02	31.3	6.5	68.2	49.2	19.03	3.585		
2,800.0	2,792.9	2,800.8	2,800.3	10.0	9.9	-159.63	32.9	15.2	75.9	56.2	19.69	3.856		
2,900.0	2,891.4	2,903.4	2,902.1	10.4	10.3	-162.14	35.2	27.6	80.3	60.0	20.33	3.952		
3,000.0	2,989.9	3,006.1	3,003.5	10.8	10.6	-164.02	38.1	43.5	81.4	60.4	20.96	3.882		
3,100.0	3,088.3	3,106.1	3,101.9	11.2	11.0	-165.69	41.3	60.6	80.9	59.2	21.67	3.734		
3,200.0	3,186.8	3,206.0	3,200.4	11.6	11.4	-167.37	44.5	77.7	80.5	58.1	22.38	3.598		
3,300.0	3,285.3	3,306.0	3,298.8	12.0	11.8	-169.06	47.7	94.7	80.2	57.1	23.09	3.473		
3,400.0	3,383.8	3,406.0	3,397.3	12.4	12.1	-170.77	50.8	111.8	79.9	56.1	23.80	3.358		
3,500.0	3,482.3	3,505.9	3,495.7	12.8	12.5	-172.49	54.0	128.9	79.7	55.2	24.52	3.252		
3,600.0	3,580.8	3,605.9	3,594.2	13.2	12.9	-174.22	57.2	145.9	79.6	54.4	25.24	3.154		
3,700.0	3,679.2	3,705.9	3,692.6	13.6	13.3	-175.94	60.4	163.0	79.6	53.6	25.97	3.065		
3,708.7 3,800.0	3,687.8 3,777.7	3,714.6 3,805.9	3,701.2 3,791.1	13.7 14.1	13.4 13.7	-176.09 -177.67	60.6 63.5	164.5 180.1	79.6 79.6	53.5 52.9	26.03 26.69	3.057 2.982		
3,900.0	3,876.2	3,905.8	3,889.5	14.5	14.1	-179.40	66.7	197.1	79.7	52.3	27.43	2.906		
4,000.0	3,974.7	4,005.8	3,988.0	14.9	14.1	178.88	69.9	214.2	79.9	51.7	28.17	2.836		
4,100.0	4,073.2	4,105.8	4,086.4	15.3	14.9	177.17	73.0	231.3	80.1	51.2	28.91	2.771		
4,200.0	4,171.6	4,105.8	4,184.9	15.7	15.4	175.47	76.2	248.3	80.4	50.8	29.66	2.712		
4,300.0	4,171.0	4,305.7	4,283.3	16.2	15.8	173.79	79.4	265.4	80.8	50.4	30.42	2.657		
4,400.0	4,368.6	4,405.7	4,381.8	16.6	16.2	172.12	82.6	282.5	81.3	50.1	31.18	2.607		
4,500.0	4,467.1	4,505.7	4,480.2	17.0	16.6	170.48	85.7	299.6	81.8	49.9	31.95	2.561		
4,600.0	4,565.6	4,605.6	4,578.7	17.5	17.0	168.85	88.9	316.6	82.4	49.7	32.73	2.518		
4,700.0	4,664.0	4,705.6	4,677.1	17.9	17.4	167.25	92.1	333.7	83.1	49.5	33.51	2.479		
4,800.0	4,762.5	4,805.6	4,775.6	18.3	17.9	165.68	95.3	350.8	83.8	49.5	34.30	2.443		
4,900.0	4,861.0	4,905.5	4,874.1	18.8	18.3	164.14	98.4	367.8	84.6	49.5	35.10	2.409		

Anticollision Report

Company: NEW MEXICO

Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft

KB @ 3575.2usft Grid

Minimum Curvature

			JULU1 -	I ANGE 3	5001111	LD COM	224H - OWB	-1 0000					Offset Site Error:	0.0 usf
Survey Prog Refer Measured	rence	-MWD Off		Semi M Reference	Major Axis Offset	Higheida	Offset Wellb	ore Centre		Rule Assi		Senaration	Offset Well Error:	0.0 usf
Depth (usft)	Depth (usft)	Measured Depth (usft)	Depth (usft)	(usft)	(usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Between Ellipses (usft)	Separation (usft)	Separation Factor	Warning	
5,000.0	4,959.5	5,005.5	4,972.5	19.2	18.7	162.62	101.6	384.9	85.4	49.5	35.90	2.379		
5,100.0	5,058.0	5,105.5	5,071.0	19.6	19.1	161.13	104.8	402.0	86.3	49.6	36.71	2.351		
5,200.0	5,156.4	5,205.4	5,169.4	20.1	19.6	159.68	107.9	419.0	87.3	49.7	37.53	2.325		
5,300.0	5,254.9	5,305.4	5,267.9	20.5	20.0	158.26	111.1	436.1	88.3	49.9	38.36	2.301		
5,400.0	5,353.4	5,405.4	5,366.3	21.0	20.4	156.87	114.3	453.2	89.3	50.2	39.19	2.280		
5,500.0	5,451.9	5,505.4	5,464.8	21.4	20.9	155.52	117.5	470.2	90.5	50.4	40.03	2.260		
5,600.0	5,550.4	5,605.3	5,563.2	21.8	21.3	154.19	120.6	487.3	91.6	50.8	40.87	2.242		
5,700.0	5,648.9	5,705.3	5,661.7	22.3	21.7	152.91	123.8	504.4	92.8	51.1	41.72	2.225		
5,800.0	5,747.3	5,805.3	5,760.1	22.7	22.2	151.65	127.0	521.4	94.1	51.5	42.57	2.210		
5,900.0	5,845.8	5,905.2	5,858.6	23.2	22.6	150.43	130.1	538.5	95.4	52.0	43.43	2.196		
6,000.0	5,944.3	6,005.2	5,957.0	23.6	23.0	149.25	133.3	555.6	96.7	52.4	44.30	2.184		
6,100.0	6,042.8	6,105.2	6,055.5	24.0	23.5	148.09	136.5	572.6	98.1	53.0	45.17	2.173		
6,200.0	6,141.3	6,205.2	6,153.9	24.5	23.9	146.97	139.7	589.7	99.6	53.5	46.04	2.162		
6,300.0	6,239.7	6,305.1	6,252.4	24.9	24.3	145.89	142.8	606.8	101.0	54.1	46.92	2.153		
6,400.0	6,338.2	6,405.1	6,350.8	25.4	24.8	144.83	146.0	623.8	102.5	54.7	47.80	2.145		
6,500.0	6,436.7	6,505.1	6,449.3	25.8	25.2	143.80	149.2	640.9	104.0	55.4	48.69	2.137		
6,600.0	6,535.2	6,605.0	6,547.7	26.3	25.7	142.80	152.4	658.0	105.6	56.0	49.58	2.130		
6,700.0	6,633.7	6,705.0	6,646.2	26.7	26.1	141.84	155.5	675.0	107.2	56.7	50.47	2.124		
6,800.0	6,732.1	6,805.0	6,744.6	27.1	26.5	140.90	158.7	692.1	108.8	57.5	51.36	2.119		
6,900.0	6,830.6	6,905.0	6,843.1	27.6	27.0	139.99	161.9	709.2	110.5	58.2	52.26	2.114		
7,000.0	6,929.1	7,004.9	6,941.6	28.0	27.4	139.10	165.0	726.2	112.2	59.0	53.15	2.110		
7,100.0	7,027.6	7,104.9	7,040.0	28.5	27.9	138.25	168.2	743.3	113.9	59.8	54.05	2.106		
7,200.0	7,126.1	7,204.9	7,138.5	28.9	28.3	137.42	171.4	760.4	115.6	60.6	54.96	2.103		
7,300.0	7,224.5	7,304.8	7,236.9	29.4	28.7	136.61	174.6	777.4	117.3	61.5	55.86	2.101		
7,400.0	7,323.0	7,404.8	7,335.4	29.8	29.2	135.82	177.7	794.5	119.1	62.4	56.76	2.099		
7,500.0	7,421.5	7,504.8	7,433.8	30.3	29.6	135.06	180.9	811.6	120.9	63.3	57.67	2.097		
7,600.0	7,520.0	7,604.8	7,532.3	30.7	30.1	134.33	184.1	828.6	122.7	64.2	58.58	2.095		
7,700.0	7,618.5	7,704.7	7,630.7	31.1	30.5	133.61	187.3	845.7	124.6	65.1	59.49	2.094		
7,745.5	7,663.3	7,750.2	7,675.5	31.3	30.7	133.29	188.7	853.5	125.4	65.5	59.90	2.094		
7,800.0	7,717.0	7,804.7	7,729.2	31.6	31.0	132.75	190.4	862.8	126.1	65.7	60.41	2.087		
7,900.0	7,816.1	7,904.6	7,827.6	32.0	31.4	130.84	193.6	879.8	125.5	64.1	61.43	2.044		
8,000.0	7,915.5	8,004.3	7,925.8	32.4	31.8	127.62	196.8	896.9	123.0	60.4	62.55	1.966		
8,100.0	8,015.3	8,102.7	8,022.8	32.8	32.3	123.19	199.8	913.1	119.2	55.4	63.74	1.869		
8,200.0	8,115.2	8,200.0	8,119.1	33.1	32.7	118.48	202.2	926.2	115.5	50.6	64.86	1.781		
8,245.5	8,160.7	8,245.2	8,164.1	33.2	32.9	-172.24	203.1	931.2	114.0	48.6	65.34	1.744		
8,300.0	8,215.2	8,298.9	8,217.5	33.4	33.1	-174.71	204.1	936.2	112.4	46.6	65.88	1.707		
8,400.0	8,315.2	8,397.7	8,316.1	33.7	33.4	-178.08	205.3	942.8	110.8	44.0	66.74	1.660		
8,500.0	8,415.2	8,496.9	8,415.2	34.0	33.8	-179.79	205.9	946.2	110.1	42.6	67.46	1.632		
8,563.9	8,479.1	8,560.4	8,478.7	34.2	34.0	180.00	206.0	946.6	110.0	42.1	67.87	1.621		
8,600.0	8,515.2	8,596.6	8,514.8	34.3	34.1	180.00	206.0	946.6	110.0	41.9	68.10	1.615		
8,700.0	8,615.2	8,696.6	8,614.8	34.6	34.4	180.00	206.0	946.6	110.0	41.3	68.73	1.600		
8,800.0	8,715.2	8,796.6	8,714.8	35.0	34.7	180.00	206.0	946.6	110.0	40.6	69.36	1.586		
8,900.0	8,815.2	8,896.6	8,814.8	35.3	35.0	180.00	206.0	946.6	110.0	40.0	69.99	1.572		
9,000.0	8,915.2	8,996.6	8,914.8	35.6	35.3	180.00	206.0	946.6	110.0	39.4	70.63	1.557		
9,100.0 9,200.0	9,015.2 9,115.2	9,096.6 9,196.6	9,014.8	35.9 36.2	35.7 36.0	180.00 180.00	206.0	946.6	110.0	38.7	71.26 71.90	1.544 1.530		
ყ,∠∪∪.∪	৬,115.2	ভ, । ৬০.৩	9,114.8	30.2	30.0	100.00	206.0	946.6	110.0	38.1	71.90	1.530		
9,300.0	9,215.2	9,296.6	9,214.8	36.5	36.3	180.00	206.0	946.6	110.0	37.5	72.54	1.516		
9,306.8	9,222.0	9,303.3	9,221.6	36.6	36.3	180.00	206.0	946.6	110.0	37.4	72.58	1.516		
9,400.0	9,315.2	9,392.9	9,311.2	36.9	36.6	180.00	205.7	946.6	110.4	37.3	73.09	1.510 SF		
9,500.0	9,415.2	9,475.7	9,393.4	37.2	36.8	179.97	197.0	946.6	121.0	48.4	72.59	1.666		
9,600.0	9,515.2	9,550.0	9,465.5	37.5	37.0	179.93	179.1	946.7	145.5	75.1	70.45	2.066		
9,700.0	9,615.2	9,626.7	9,536.9	37.8	37.2	179.89	151.0	946.9	182.5	113.7	68.80	2.652		

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Offset De	esign: ^{PA}	SKE PRO	JECT -	PAKSE 5 S	SOUTH F	ED COM	224H - OWB	- PWP0					Offset Site Error:	0.0 usff
Survey Prog Refer Measured Depth (usft)		MWD Offs Measured Depth (usft)	set Vertical Depth (usft)	Semi M Reference (usft)	Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellb +N/-S (usft)	ore Centre +E/-W (usft)	Dis Between Centres (usft)	Rule Assignance Between Ellipses (usft)	ned: Minimum Separation (usft)	Separation Factor	Offset Well Error: Warning	0.0 usf
9,800.0	9,715.2	9,691.3	9,593.6	38.1	37.4	179.85	120.2	947.1	230.3	164.1	66.18	3.480		
9,900.0	9.815.2	9.750.0	9,641.8	38.5	37.5	179.83	86.8	947.2	287.2	223.5	63.71	4.507		
10,000.0	9,915.2	9,800.0	9,680.0	38.8	37.6	179.81	54.6	947.4	351.4	290.2	61.19	5.743		
10,100.0	10,015.2	9,850.0	9,715.3	39.1	37.6	179.79	19.2	947.6	421.7	362.2	59.48	7.090		
10,200.0	10,115.2	9,876.8	9,732.9	39.4	37.7	179.78	-1.0	947.8	496.4	439.9	56.50	8.785		
10,300.0	10,215.2	9,900.0	9,747.3	39.8	37.7	179.78	-19.2	947.9	575.2	521.1	54.13	10.628		
10,400.0	10,315.2	9,936.4	9,768.5	40.1	37.8	179.77	-48.8	948.0	656.9	603.7	53.22	12.344		
10,502.3	10,417.5	9,950.0	9,775.9	40.4	37.8	179.77	-60.2	948.1	743.4	692.0	51.35	14.478		
10,525.0	10,440.2	9,966.4	9,784.5	40.5	37.8	0.08	-74.2	948.2	762.4	710.7	51.66	14.758		
10,550.0	10,465.2	9,972.4	9,787.6	40.6	37.8	0.08	-79.4	948.2	783.0	731.6	51.35	15.249		

Anticollision Report

Company: NEW MEXICO

Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

				0001	FARGE 3	SOUTHE	-ED COM	304H - OWB -	- PVVPU					Offset Site Error:	0.0 usft
	Refer	ence	-MWD Off			Major Axis		Offset Wellbo	ore Centre		Rule Assig	-		Offset Well Error:	0.0 usft
Dept	th	Vertical Depth	Measured Depth	Depth	Reference		Highside Toolface	+N/-S	+E/-W	Centres	Between Ellipses	Separation	Separation Factor	Warning	
(usf	•	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
	0.0	0.0	0.0	0.0	0.0	0.0	-0.56	120.0	-1.2	120.0					
	0.0	100.0	99.1	99.1	0.3	0.2	-0.56	120.0	-1.2	120.0	119.5	0.50	240.185		
	0.0	200.0	199.1	199.1	0.6	0.6	-0.56	120.0	-1.2	120.0	118.8	1.22	98.720		
	0.0	300.0	299.1	299.1	1.0	1.0	-0.56	120.0	-1.2	120.0	118.1	1.93	62.097		
	0.0	400.0	399.1	399.1	1.3	1.3	-0.56	120.0	-1.2	120.0	117.4	2.65	45.294		
	0.0	500.0	499.1	499.1	1.7	1.7	-0.56	120.0	-1.2	120.0	116.6	3.37	35.648		
	0.0	600.0	599.1	599.1	2.0	2.0	-0.56	120.0	-1.2	120.0	115.9	4.08	29.389		
	0.0	700.0	699.1	699.1	2.4	2.4	-0.56	120.0	-1.2	120.0	115.2	4.80	24.999		
	0.0	800.0	799.1	799.1	2.8	2.8	-0.56	120.0	-1.2	120.0	114.5	5.52	21.751		
	0.0	900.0	899.1	899.1	3.1	3.1	-0.56	120.0	-1.2	120.0	113.8	6.23	19.250		
1,00	0.0	1,000.0	999.1	999.1	3.5	3.5	-0.56	120.0	-1.2	120.0	113.1	6.95	17.264		
1,10	0.0	1,100.0	1,099.1	1,099.1	3.8	3.8	-0.56	120.0	-1.2	120.0	112.3	7.67	15.650		
1,20	0.0	1,200.0	1,199.1	1,199.1	4.2	4.2	-0.56	120.0	-1.2	120.0	111.6	8.39	14.312		
1,30		1,300.0	1,299.1	1,299.1	4.6	4.5	-0.56	120.0	-1.2	120.0	110.9	9.10	13.185		
1,40		1,400.0	1,399.1	1,399.1	4.9	4.9	-0.56	120.0	-1.2	120.0	110.2	9.82	12.222		
1,50	0.0	1,500.0	1,499.1	1,499.1	5.3	5.3	-0.56	120.0	-1.2	120.0	109.5	10.54	11.390		
1,60	0.0	1,600.0	1,599.1	1,599.1	5.6	5.6	-0.56	120.0	-1.2	120.0	108.8	11.25	10.665		
1,70	0.0	1,700.0	1,699.1	1,699.1	6.0	6.0	-0.56	120.0	-1.2	120.0	108.0	11.97	10.026		
1,80	0.0	1,800.0	1,799.1	1,799.1	6.3	6.3	-0.56	120.0	-1.2	120.0	107.3	12.69	9.459		
1,90	0.0	1,900.0	1,899.1	1,899.1	6.7	6.7	-0.56	120.0	-1.2	120.0	106.6	13.40	8.953		
2,00	0.0	2,000.0	1,999.1	1,999.1	7.1	7.1	-0.56	120.0	-1.2	120.0	105.9	14.12	8.499 CC		
2,10	0.0	2,100.0	2,097.0	2,096.9	7.4	7.4	-72.20	120.9	0.2	120.4	105.5	14.82	8.122 ES		
2,20	0.0	2,199.8	2,194.8	2,194.6	7.8	7.8	-72.48	123.5	4.4	121.4	105.9	15.51	7.832		
2,30	0.0	2,299.5	2,292.6	2,292.1	8.1	8.1	-72.93	128.0	11.4	123.2	107.1	16.19	7.611		
2,40	0.0	2,398.7	2,391.3	2,390.1	8.5	8.4	-73.65	134.1	21.1	125.7	108.8	16.90	7.437		
2,50	0.0	2,497.5	2,491.2	2,489.2	8.8	8.8	-75.65	140.7	31.4	127.5	109.8	17.62	7.233		
2,60	0.0	2,595.9	2,591.0	2,588.3	9.2	9.2	-78.37	147.2	41.7	129.1	110.7	18.36	7.028		
2,70	0.0	2,694.4	2,690.8	2,687.4	9.6	9.5	-81.02	153.7	51.9	131.0	111.8	19.12	6.851		
2,80	0.0	2,792.9	2,790.6	2,786.4	10.0	9.9	-83.59	160.2	62.2	133.1	113.2	19.87	6.698		
2,90	0.0	2,891.4	2,890.4	2,885.5	10.4	10.3	-86.07	166.7	72.5	135.5	114.9	20.64	6.567		
3,00	0.0	2,989.9	2,990.2	2,984.5	10.8	10.7	-88.46	173.2	82.7	138.2	116.8	21.41	6.454		
3,10	0.0	3,088.3	3,090.0	3,083.6	11.2	11.0	-90.75	179.7	93.0	141.1	118.9	22.19	6.358		
3,20	0.0	3,186.8	3,189.8	3,182.6	11.6	11.4	-92.96	186.3	103.3	144.2	121.3	22.98	6.278		
3,30	0.0	3,285.3	3,289.6	3,281.7	12.0	11.8	-95.06	192.8	113.6	147.6	123.8	23.76	6.210		
3,40	0.0	3,383.8	3,389.4	3,380.8	12.4	12.2	-97.07	199.3	123.8	151.1	126.5	24.55	6.153		
3,50	0.0	3,482.3	3,489.2	3,479.8	12.8	12.6	-98.99	205.8	134.1	154.8	129.4	25.34	6.107		
3,60	0.0	3,580.8	3,589.0	3,578.9	13.2	13.0	-100.81	212.3	144.4	158.6	132.5	26.13	6.070		
3,70		3,679.2	3,688.8	3,677.9	13.6	13.3	-102.55	218.8	154.6	162.6	135.7	26.92	6.040		
3,80	0.0	3,777.7	3,788.6	3,777.0	14.1	13.7	-104.20	225.3	164.9	166.8	139.0	27.72	6.017		
3,90		3,876.2	3,888.4	3,876.0	14.5	14.1	-105.78	231.9	175.2	171.0	142.5	28.51	6.000		
4,00		3,974.7	3,988.2	3,975.1	14.9	14.5	-107.27	238.4	185.5	175.5	146.2	29.30	5.988		
4,10	0.0	4,073.2	4,088.0	4,074.2	15.3	14.9	-108.69	244.9	195.7	180.0	149.9	30.10	5.980		
4,20		4,171.6	4,187.8	4,173.2	15.7	15.3	-110.04	251.4	206.0	184.6	153.7	30.89	5.976		
4,30		4,270.1	4,287.6	4,272.3	16.2	15.7	-111.32	257.9	216.3	189.3	157.6	31.68	5.976 SF		
4,40		4,368.6	4,387.4	4,371.3	16.6	16.1	-112.54	264.4	226.5	194.1	161.7	32.47	5.979		
4,50		4,467.1	4,487.2	4,470.4	17.0	16.5	-113.70	270.9	236.8	199.0	165.8	33.26	5.984		
4,60	0.0	4,565.6	4,587.0	4,569.4	17.5	16.9	-114.81	277.5	247.1	204.0	169.9	34.05	5.991		
4,70		4,664.0	4,686.8	4,668.5	17.9	17.2	-115.86	284.0	257.3	209.0	174.2	34.84	6.000		
4,80		4,762.5	4,786.6	4,767.6	18.3	17.6	-116.86	290.5	267.6	214.2	178.5	35.63	6.011		
4,90		4,861.0	4,780.0	4,865.1	18.8	18.0	-118.15	296.2	276.5	219.7	183.3	36.39	6.036		
5,00		4,959.5	4,982.1	4,962.3	19.2	18.4	-120.18	300.0	282.6	226.2	189.1	37.11	6.096		
5,10	0.0	5,058.0	5,078.8	5,058.9	19.6	18.7	-122.84	302.1	285.9	234.2	196.4	37.79	6.198		

Anticollision Report

Company: **NEW MEXICO**

Project: (SP) LEA Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft Reference Wellbore OWB Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

			JECT -							Dula 4 - 1			Offset Site Error:	0.0 ust
urvey Pro Refe	rence	-MWD Off			Major Axis		Offset Wellb	ore Centre		Rule Assi	_		Offset Well Error:	0.0 us
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.0	5,156.4	5,175.5	5,155.5	20.1	19.1	-126.01	302.5	286.6	243.8	205.4	38.42	6.347		
5,300.0	5,254.9	5,274.0	5,254.0	20.5	19.4	-129.14	302.5	286.6	254.5	215.5	39.05	6.518		
5,400.0	5,353.4	5,372.5	5,352.5	21.0	19.7	-132.02	302.5	286.6	265.9	226.2	39.68	6.701		
5,500.0	5,451.9	5,471.0	5,451.0	21.4	20.1	-134.66	302.5	286.6	277.9	237.6	40.32	6.893		
5,600.0	5,550.4	5,569.4	5,549.5	21.8	20.4	-137.08	302.5	286.6	290.5	249.5	40.96	7.092		
5,700.0	5,648.9	5,667.9	5,648.0	22.3	20.8	-139.30	302.5	286.6	303.5	261.9	41.61	7.295		
5,800.0	5,747.3	5,766.4	5,746.4	22.7	21.1	-141.33	302.5	286.6	317.0	274.7	42.26	7.501		
5,900.0	5,845.8	5,864.9	5,844.9	23.2	21.4	-143.20	302.5	286.6	330.8	287.9	42.91	7.709		
6,000.0	5,944.3	5,963.4	5,943.4	23.6	21.8	-144.92	302.5	286.6	344.9	301.3	43.57	7.916		
6,100.0	6,042.8	6,061.8	6,041.9	24.0	22.1	-146.51	302.5	286.6	359.3	315.1	44.24	8.123		
6,200.0	6,141.3	6,160.3	6,140.4	24.5	22.5	-147.97	302.5	286.6	374.0	329.1	44.90	8.329		
6,300.0	6,239.7	6,258.8	6,238.8	24.9	22.8	-149.32	302.5	286.6	388.9	343.3	45.58	8.533		
6,400.0	6,338.2	6,357.3	6,337.3	25.4	23.1	-150.57	302.5	286.6	404.0	357.7	46.25	8.734		
6,500.0	6,436.7	6,455.8	6,435.8	25.8	23.5	-151.73	302.5	286.6	419.2	372.3	46.93	8.933		
6,600.0	6,535.2	6,554.2	6,534.3	26.3	23.8	-152.81	302.5	286.6	434.7	387.1	47.62	9.128		
6,700.0	6,633.7	6,652.7	6,632.8	26.7	24.2	-153.82	302.5	286.6	450.2	401.9	48.30	9.321		
6,800.0	6,732.1	6,751.2	6,731.2	27.1	24.5	-154.76	302.5	286.6	465.9	416.9	48.99	9.510		
6,900.0	6,830.6	6,849.7	6,829.7	27.6	24.8	-155.64	302.5	286.6	481.7	432.0	49.68	9.696		
7,000.0	6,929.1	6,948.2	6,928.2	28.0	25.2	-156.46	302.5	286.6	497.6	447.3	50.38	9.878		
7,100.0	7,027.6	7,046.6	7,026.7	28.5	25.5	-157.23	302.5	286.6	513.6	462.6	51.07	10.057		
7,200.0	7,126.1	7,145.1	7,125.2	28.9	25.9	-157.96	302.5	286.6	529.7	478.0	51.77	10.232		
7,300.0	7,224.5	7,243.6	7,223.6	29.4	26.2	-158.64	302.5	286.6	545.9	493.4	52.47	10.404		
7,400.0	7,323.0	7,342.1	7,322.1	29.8	26.6	-159.28	302.5	286.6	562.1	509.0	53.17	10.572		
7,500.0	7,421.5	7,440.6	7,420.6	30.3	26.9	-159.89	302.5	286.6	578.4	524.6	53.88	10.736		
7,600.0	7,520.0	7,539.1	7,519.1	30.7	27.3	-160.47	302.5	286.6	594.8	540.2	54.58	10.898		
7,700.0	7,618.5	7,637.5	7,617.6	31.1	27.6	-161.01	302.5	286.6	611.2	555.9	55.29	11.056		
7,745.5	7,663.3	7,682.3	7,662.4	31.3	27.8	-161.25	302.5	286.6	618.7	563.1	55.61	11.126		
7,800.0	7,717.0	7,736.1	7,716.1	31.6	27.9	-161.56	302.5	286.6	627.2	571.2	55.99	11.202		
7,900.0	7,816.1	7,835.1	7,815.2	32.0	28.3	-162.04	302.5	286.6	640.3	583.6	56.70	11.293		
8,000.0	7,915.5	7,934.6	7,914.6	32.4	28.6	-162.37	302.5	286.6	650.1	592.7	57.41	11.325		
8,100.0	8,015.3	8,034.4	8,014.4	32.8	29.0	-162.59	302.5	286.6	656.6	598.5	58.11	11.300		
8,200.0	8,115.2	8,134.3	8,114.3	33.1	29.3	-162.70	302.5	286.6	659.8	601.0	58.81	11.219		
8,245.5	8,160.7	8,179.8	8,159.8	33.2	29.5	-91.17	302.5	286.6	660.1	601.0	59.12	11.165		
8,300.0	8,215.2	8,234.3	8,214.3	33.4	29.7	-91.17	302.5	286.6	660.1	600.6	59.50	11.095		
8,400.0	8,315.2	8,334.3	8,314.3	33.7	30.0	-91.17	302.5	286.6	660.1	599.9	60.19	10.967		
8,500.0	8,415.2	8,434.3	8,414.3	34.0	30.4	-91.17	302.5	286.6	660.1	599.3	60.88	10.843		
8,600.0	8,515.2	8,534.3	8,514.3	34.3	30.7	-91.17	302.5	286.6	660.1	598.6	61.57	10.721		
8,700.0	8,615.2	8,634.3	8,614.3	34.6	31.1	-91.17	302.5	286.6	660.1	597.9	62.27	10.602		
8,800.0	8,715.2	8,734.3	8,714.3	35.0	31.5	-91.17	302.5	286.6	660.1	597.2	62.96	10.485		
8,900.0	8,815.2	8,834.3	8,814.3	35.3	31.8	-91.17	302.5	286.6	660.1	596.5	63.65	10.371		
9,000.0	8,915.2	8,934.3	8,914.3	35.6	32.2	-91.17	302.5	286.6	660.1	595.8	64.35	10.259		
9,100.0	9,015.2	9,034.3	9,014.3	35.9	32.5	-91.17	302.5	286.6	660.1	595.1	65.04	10.150		
9,200.0	9,115.2	9,134.3	9,114.3	36.2	32.9	-91.17	302.5	286.6	660.1	594.4	65.73	10.042		
9,300.0	9,215.2	9,234.3	9,214.3	36.5	33.2	-91.17	302.5	286.6	660.1	593.7	66.43	9.937		
9,400.0	9,315.2	9,334.3	9,314.3	36.9	33.6	-91.17	302.5	286.6	660.1	593.0	67.13	9.834		
9,500.0	9,415.2	9,434.3	9,414.3	37.2	33.9	-91.17	302.5	286.6	660.1	592.3	67.82	9.733		
9,600.0	9,515.2	9,534.3	9,514.3	37.5	34.3	-91.17	302.5	286.6	660.1	591.6	68.52	9.634		
9,700.0	9,615.2	9,634.3	9,614.3	37.8	34.6	-91.17	302.5	286.6	660.1	590.9	69.22	9.537		
9,800.0	9,715.2	9,734.3	9,714.3	38.1	35.0	-91.17	302.5	286.6	660.1	590.2	69.91	9.442		
9,810.0	9,725.2	9,744.3	9,724.3	38.2	35.0	-91.17	302.5	286.6	660.1	590.2	69.98	9.433		
9,900.0	9,815.2	9,832.9	9,812.8	38.5	35.3	-91.45	299.3	286.6	660.2	589.6	70.57	9.355		
10,000.0	9,915.2	9,926.2	9,903.8	38.8	35.6	-93.16	279.5	286.7	661.0	589.9	71.08	9.299		

Anticollision Report

Company: NEW MEXICO

Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

ırvey Prog Refer		MWD Off	set	Semi N	laior Axis		Offset Wellb	ore Centre	Diet	Rule Assig	ıned:		Offset Well Error:	0.0 us
	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,100.0	10,015.2	10,009.1	9,980.2	39.1	35.8	-95.94	247.4	286.9	664.1	592.7	71.39	9.303		
10,200.0	10,115.2	10,079.3	10,039.6	39.4	36.0	-99.11	210.2	287.1	672.1	600.7	71.39	9.414		
10,300.0	10,215.2	10,137.1	10,084.1	39.8	36.1	-102.21	173.3	287.3	687.0	616.0	70.94	9.683		
10,400.0	10,315.2	10,184.3	10,116.8	40.1	36.1	-105.00	139.4	287.5	710.3	640.3	69.99	10.149		
10,502.3	10,417.5	10,225.0	10,142.3	40.4	36.2	-107.55	107.7	287.7	743.5	674.9	68.54	10.847		
10,525.0	10,440.2	10,231.5	10,146.1	40.5	36.2	71.33	102.4	287.7	752.0	683.8	68.13	11.037		
10,550.0	10,465.2	10,240.4	10,151.2	40.6	36.2	69.64	95.1	287.7	761.4	693.7	67.69	11.248		
10,575.0	10,490.0	10,250.0	10,156.6	40.6	36.2	67.94	87.2	287.8	771.0	703.7	67.26	11.463		
10,600.0	10,514.6	10,258.7	10,161.3	40.7	36.2	66.33	79.9	287.8	780.6	713.8	66.80	11.686		
10,625.0	10,538.9	10,268.0	10,166.2	40.8	36.2	64.72	71.9	287.9	790.2	723.8	66.34	11.912		
10,650.0	10,562.9	10,275.0	10,169.8	40.8	36.2	63.27	65.9	287.9	799.7	733.9	65.82	12.150		

Anticollision Report

Company: NEW MEXICO
Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

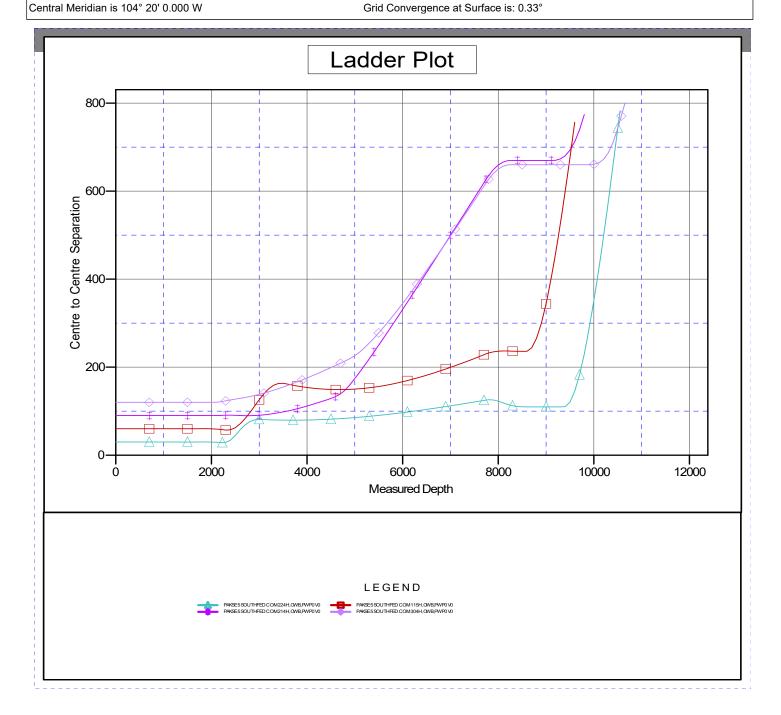
Grid

Minimum Curvature

2.00 sigma Compass Offset Datum

Reference Depths are relative to KB @ 3575.2usft
Offset Depths are relative to Offset Datum

Coordinates are relative to: PAKSE 5 SOUTH FED COM 324H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone



Anticollision Report

Company: NEW MEXICO
Project: (SP) LEA
Reference Site: PASKE PROJECT

Site Error: 0.0 usft

Reference Well: PAKSE 5 SOUTH FED COM 324H

Well Error: 0.0 usft
Reference Wellbore OWB
Reference Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

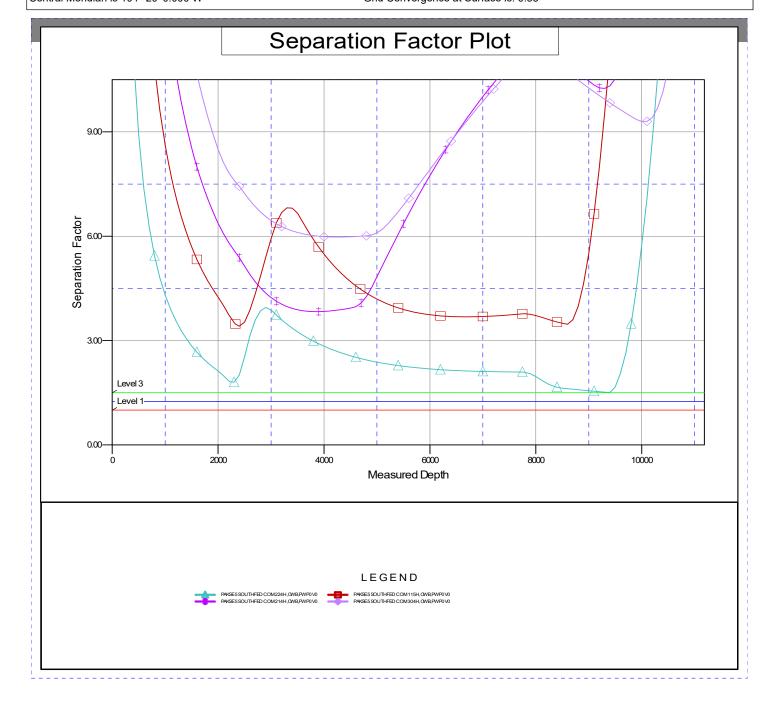
Grid

Minimum Curvature

2.00 sigma
Compass
Offset Datum

Reference Depths are relative to KB @ 3575.2usft Offset Depths are relative to Offset Datum Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: PAKSE 5 SOUTH FED COM 324H Coordinate System is US State Plane 1983, New Mexico Eastern Zone Grid Convergence at Surface is: 0.33°



NEW MEXICO

(SP) LEA
PASKE PROJECT
PAKSE 5 SOUTH FED COM 324H

OWB

Plan: PWP0

Standard Planning Report - Geographic

13 February, 2024

Planning Report - Geographic

Database: Compass
Company: NEW MEXICO
Project: (SP) LEA
Site: PASKE PROJECT

Well: PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Project (SP) LEA

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone System Datum:

Mean Sea Level

Site PASKE PROJECT

 Site Position:
 Northing:
 569,891.35 usft
 Latitude:
 32° 33' 54.721 N

 From:
 Map
 Easting:
 729,667.08 usft
 Longitude:
 103° 43' 19.273 W

Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 "

Well PAKSE 5 SOUTH FED COM 324H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 569,815.75 usft
 Latitude:
 32° 33' 53.854 N

 +E/-W
 0.0 usft
 Easting:
 731,743.32 usft
 Longitude:
 103° 42' 55.018 W

 Position Uncertainty
 0.0 usft
 Wellhead Elevation:
 usft
 Ground Level:
 3,545.2 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
 48,982.22641005

Design PWP0

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.0

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

 0.0
 0.0
 0.0
 172.53

Plan Survey Tool Program Date 2/13/2024

Depth From Depth To

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

1 0.0 18,652.1 PWP0 (OWB) MWD

OWSG Rev2 MWD - Stan

Plan Section	ns									
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	
2,500.0	10.00	71.54	2,497.5	13.8	41.3	2.00	2.00	0.00	71.54	
7,745.5	10.00	71.54	7,663.3	302.2	905.3	0.00	0.00	0.00	0.00	
8,245.5	0.00	0.00	8,160.7	316.0	946.6	2.00	-2.00	0.00	180.00	
10,502.3	0.00	0.00	10,417.5	316.0	946.6	0.00	0.00	0.00	0.00	
11,252.3	90.00	179.67	10,895.0	-161.5	949.3	12.00	12.00	23.96	179.67	
18,652.6	90.00	179.67	10,895.0	-7,561.7	991.5	0.00	0.00	0.00	0.00	BHL-PAKSE 5 S FC

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) LEASite:PASKE PROJECT

Well: PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Diamad Sum									
Planned Surv	еу								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0		0.00	0.0	0.0	0.0	569,815.75	731,743.32	32° 33′ 53.854 N	103° 42' 55.018 W
100.0		0.00	100.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
200.0		0.00	200.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
300.0		0.00	300.0	0.0	0.0	569,815.75	731,743.32	32° 33′ 53.854 N	103° 42' 55.018 W
400.0 500.0		0.00 0.00	400.0 500.0	0.0 0.0	0.0 0.0	569,815.75 569,815.75	731,743.32 731,743.32	32° 33' 53.854 N 32° 33' 53.854 N	103° 42' 55.018 W 103° 42' 55.018 W
600.0		0.00	600.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
700.0		0.00	700.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
800.0		0.00	800.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
900.0		0.00	900.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	569,815.75	731,743.32	32° 33′ 53.854 N	103° 42' 55.018 W
1,100.0		0.00	1,100.0	0.0	0.0	569,815.75	731,743.32	32° 33′ 53.854 N	103° 42' 55.018 W
1,200.0		0.00	1,200.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,400.0		0.00	1,400.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,500.0 1,600.0		0.00 0.00	1,500.0 1,600.0	0.0 0.0	0.0 0.0	569,815.75 569,815.75	731,743.32 731,743.32	32° 33' 53.854 N 32° 33' 53.854 N	103° 42' 55.018 W 103° 42' 55.018 W
1,700.0		0.00	1,700.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,800.0		0.00	1,800.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
1,900.0		0.00	1,900.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
2,000.0		0.00	2,000.0	0.0	0.0	569,815.75	731,743.32	32° 33' 53.854 N	103° 42' 55.018 W
	uild 2.00								
2,100.0	2.00	71.54	2,100.0	0.6	1.7	569,816.31	731,744.97	32° 33′ 53.860 N	103° 42' 54.998 W
2,200.0		71.54	2,199.8	2.2	6.6	569,817.96	731,749.94	32° 33′ 53.876 N	103° 42' 54.940 W
2,300.0		71.54	2,299.5	5.0	14.9	569,820.72	731,758.20	32° 33' 53.903 N	103° 42' 54.843 W
2,400.0		71.54	2,398.7	8.8	26.4	569,824.58	731,769.76	32° 33′ 53.940 N	103° 42' 54.708 W
2,500.0	10.00 245.5 hold a	71.54	2,497.5	13.8	41.3	569,829.53	731,784.60	32° 33′ 53.988 N	103° 42' 54.534 W
2,600.0		71.54	2,595.9	19.3	57.8	569,835.03	731,801.07	32° 33' 54.042 N	103° 42' 54.341 W
2,700.0		71.54	2,694.4	24.8	74.2	569,840.53	731,817.54	32° 33' 54.095 N	103° 42' 54.149 W
2,800.0		71.54	2,792.9	30.3	90.7	569,846.03	731,834.01	32° 33' 54.149 N	103° 42' 53.956 W
2,900.0		71.54	2,891.4	35.8	107.2	569,851.53	731,850.48	32° 33' 54.202 N	103° 42' 53.763 W
3,000.0	10.00	71.54	2,989.9	41.3	123.6	569,857.03	731,866.96	32° 33′ 54.256 N	103° 42' 53.570 W
3,100.0		71.54	3,088.3	46.8	140.1	569,862.53	731,883.43	32° 33' 54.309 N	103° 42' 53.377 W
3,200.0		71.54	3,186.8	52.3	156.6	569,868.03	731,899.90	32° 33' 54.363 N	103° 42' 53.184 W
3,300.0		71.54	3,285.3	57.8	173.1	569,873.52	731,916.37	32° 33′ 54.416 N	103° 42' 52.992 W
3,400.0 3,500.0		71.54 71.54	3,383.8 3,482.3	63.3 68.8	189.5 206.0	569,879.02 569,884.52	731,932.84 731,949.31	32° 33' 54.470 N 32° 33' 54.523 N	103° 42' 52.799 W 103° 42' 52.606 W
3,600.0		71.54	3,580.8	74.3	222.5	569,890.02	731,949.31	32° 33' 54.577 N	103° 42' 52.413 W
3,700.0		71.54	3,679.2	79.8	238.9	569,895.52	731,982.25	32° 33' 54.630 N	103° 42' 52.220 W
3,800.0		71.54	3,777.7	85.3	255.4	569,901.02	731,998.72	32° 33' 54.683 N	103° 42' 52.027 W
3,900.0		71.54	3,876.2	90.8	271.9	569,906.52	732,015.20	32° 33' 54.737 N	103° 42' 51.835 W
4,000.0	10.00	71.54	3,974.7	96.3	288.4	569,912.02	732,031.67	32° 33′ 54.790 N	103° 42' 51.642 W
4,100.0		71.54	4,073.2	101.8	304.8	569,917.51	732,048.14	32° 33' 54.844 N	103° 42' 51.449 W
4,200.0		71.54	4,171.6	107.3	321.3	569,923.01	732,064.61	32° 33' 54.897 N	103° 42' 51.256 W
4,300.0		71.54	4,270.1	112.8	337.8	569,928.51	732,081.08	32° 33' 54.951 N	103° 42' 51.063 W
4,400.0		71.54 71.54	4,368.6 4,467.1	118.3	354.2 370.7	569,934.01 569,939.51	732,097.55 732,114.02	32° 33' 55.004 N 32° 33' 55.058 N	103° 42' 50.870 W 103° 42' 50.678 W
4,500.0 4,600.0		71.54 71.54	4,467.1 4,565.6	123.8 129.3	370.7 387.2	569,945.01	732,114.02	32° 33' 55.058 N	103° 42′ 50.678 W
4,700.0		71.54	4,664.0	134.8	403.6	569,950.51	732,130.49	32° 33' 55.165 N	103° 42' 50.292 W
4,800.0		71.54	4,762.5	140.3	420.1	569,956.01	732,163.44	32° 33' 55.218 N	103° 42' 50.099 W
4,900.0		71.54	4,861.0	145.8	436.6	569,961.50	732,179.91	32° 33' 55.272 N	103° 42' 49.906 W
5,000.0	10.00	71.54	4,959.5	151.3	453.1	569,967.00	732,196.38	32° 33′ 55.325 N	103° 42' 49.713 W
5,100.0	10.00	71.54	5,058.0	156.7	469.5	569,972.50	732,212.85	32° 33' 55.378 N	103° 42' 49.521 W

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) LEASite:PASKE PROJECT

Well: PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

_									
Planned Surv	v ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,200.0	10.00	71.54	5,156.4	162.2	486.0	569,978.00	732,229.32	32° 33′ 55.432 N	103° 42' 49.328 W
5,300.0	10.00	71.54	5,254.9	167.7	502.5	569,983.50	732,245.79	32° 33′ 55.485 N	103° 42' 49.135 W
5,400.0	10.00	71.54	5,353.4	173.2	518.9	569,989.00	732,262.26	32° 33′ 55.539 N	103° 42' 48.942 W
5,500.0	10.00	71.54	5,451.9	178.7	535.4	569,994.50	732,278.74	32° 33′ 55.592 N	103° 42' 48.749 W
5,600.0			5,550.4	184.2	551.9	570,000.00	732,295.21	32° 33′ 55.646 N	103° 42' 48.556 W
5,700.0		71.54	5,648.9	189.7	568.4	570,005.49	732,311.68	32° 33′ 55.699 N	103° 42' 48.363 W
5,800.0			5,747.3	195.2	584.8	570,010.99	732,328.15	32° 33′ 55.753 N	103° 42' 48.171 W
5,900.0		71.54	5,845.8	200.7	601.3	570,016.49	732,344.62	32° 33' 55.806 N	103° 42' 47.978 W
6,000.0			5,944.3	206.2	617.8	570,021.99	732,361.09	32° 33′ 55.860 N	103° 42' 47.785 W
6,100.0			6,042.8	211.7	634.2	570,027.49	732,377.56	32° 33' 55.913 N	103° 42' 47.592 W
6,200.0		71.54	6,141.3	217.2	650.7	570,032.99	732,394.03	32° 33' 55.967 N	103° 42' 47.399 W
6,300.0			6,239.7	222.7	667.2	570,038.49	732,410.51	32° 33′ 56.020 N	103° 42' 47.206 W
6,400.0			6,338.2	228.2	683.7	570,043.99	732,426.98	32° 33′ 56.073 N	103° 42' 47.014 W
6,500.0		71.54	6,436.7	233.7	700.1	570,049.48	732,443.45	32° 33′ 56.127 N	103° 42' 46.821 W
6,600.0			6,535.2	239.2	716.6	570,054.98	732,459.92	32° 33′ 56.180 N	103° 42' 46.628 W
6,700.0		71.54 71.54	6,633.7	244.7	733.1 749.5	570,060.48	732,476.39	32° 33' 56.234 N 32° 33' 56.287 N	103° 42' 46.435 W
6,800.0 6,900.0			6,732.1 6,830.6	250.2 255.7	749.5 766.0	570,065.98 570,071.48	732,492.86 732,509.33	32° 33' 56.341 N	103° 42' 46.242 W 103° 42' 46.049 W
7,000.0		71.54	6,929.1	261.2	782.5	570,076.98	732,525.80	32° 33' 56.394 N	103° 42' 45.857 W
7,100.0			7,027.6	266.7	799.0	570,082.48	732,542.27	32° 33' 56.448 N	103° 42' 45.664 W
7,100.0			7,126.1	272.2	815.4	570,087.98	732,558.75	32° 33' 56.501 N	103° 42' 45.471 W
7,300.0		71.54	7,120.1	277.7	831.9	570,093.47	732,575.22	32° 33' 56.555 N	103° 42' 45.278 W
7,400.0			7,323.0	283.2	848.4	570,098.97	732,591.69	32° 33' 56.608 N	103° 42' 45.085 W
7,500.0		71.54	7,421.5	288.7	864.8	570,104.47	732,608.16	32° 33' 56.661 N	103° 42' 44.892 W
7,600.0			7,520.0	294.2	881.3	570,109.97	732,624.63	32° 33' 56.715 N	103° 42' 44.700 W
7,700.0		71.54	7,618.5	299.7	897.8	570,115.47	732,641.10	32° 33' 56.768 N	103° 42' 44.507 W
7,745.5	10.00	71.54	7,663.3	302.2	905.3	570,117.97	732,648.59	32° 33' 56.793 N	103° 42' 44.419 W
Start D	rop -2.00								
7,800.0	8.91	71.54	7,717.0	305.1	913.8	570,120.81	732,657.09	32° 33′ 56.820 N	103° 42' 44.320 W
7,900.0		71.54	7,816.1	309.4	926.8	570,125.16	732,670.14	32° 33′ 56.863 N	103° 42' 44.167 W
8,000.0	4.91	71.54	7,915.5	312.7	936.6	570,128.42	732,679.91	32° 33′ 56.894 N	103° 42' 44.052 W
8,100.0		71.54	8,015.3	314.8	943.1	570,130.58	732,686.37	32° 33' 56.915 N	103° 42' 43.977 W
8,200.0		71.54	8,115.2	315.9	946.2	570,131.64	732,689.53	32° 33′ 56.926 N	103° 42' 43.940 W
8,245.5		0.00	8,160.7	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
	256.8 hold a			0.4.0.0	0.40.0	570 101 75	700 000 00	000 001 50 007 11	4000 401 40 000 144
8,300.0		0.00	8,215.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W 103° 42' 43.936 W
8,400.0 8,500.0			8,315.2 8,415.2	316.0 316.0	946.6 946.6	570,131.75 570,131.75	732,689.88 732,689.88	32° 33' 56.927 N 32° 33' 56.927 N	103° 42' 43.936 W
8,600.0		0.00	8,515.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
8,700.0		0.00	8,615.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
8,800.0			8,715.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
8,900.0			8,815.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,000.0			8,915.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,100.0		0.00	9,015.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,200.0			9,115.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,300.0	0.00	0.00	9,215.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W
9,400.0	0.00	0.00	9,315.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,500.0		0.00	9,415.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W
9,600.0		0.00	9,515.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W
9,700.0		0.00	9,615.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,800.0			9,715.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
9,900.0		0.00	9,815.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
10,000.0			9,915.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W
10,100.0	0.00	0.00	10,015.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) LEASite:PASKE PROJECT

Well: PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid

Minimum Curvature

Diamond Com.									
Planned Surv	ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,200.0	0.00	0.00	10,115.2	316.0	946.6	570,131.75	732,689.88	32° 33′ 56.927 N	103° 42' 43.936 W
10,300.0	0.00	0.00	10,215.2	316.0	946.6	570,131.75	732,689.88	32° 33' 56.927 N	103° 42' 43.936 W
10,400.0 10,502.3	0.00 0.00	0.00 0.00	10,315.2 10,417.5	316.0 316.0	946.6 946.6	570,131.75 570,131.75	732,689.88 732,689.88	32° 33' 56.927 N 32° 33' 56.927 N	103° 42' 43.936 W 103° 42' 43.936 W
	0.00 LS 12.00 TF		10,417.5	310.0	340.0	370,131.73	732,009.00	32 33 30.927 N	103 42 43.930 W
10,525.0	2.73	179.67	10,440.2	315.5	946.6	570,131.21	732,689.88	32° 33' 56.921 N	103° 42' 43.936 W
10,550.0	5.73	179.67	10,465.2	313.6	946.6	570,129.37	732,689.89	32° 33′ 56.903 N	103° 42' 43.936 W
10,575.0	8.73	179.67	10,490.0	310.5	946.6	570,126.22	732,689.91	32° 33' 56.872 N	103° 42' 43.936 W
10,600.0	11.73	179.67	10,514.6	306.0	946.6	570,121.78	732,689.93	32° 33' 56.828 N	103° 42' 43.936 W
10,625.0 10,650.0	14.73 17.73	179.67 179.67	10,538.9 10,562.9	300.3 293.3	946.6 946.7	570,116.06 570,109.08	732,689.97 732,690.01	32° 33' 56.771 N 32° 33' 56.702 N	103° 42' 43.936 W 103° 42' 43.936 W
10,630.0	20.73	179.67	10,582.9	295.3 285.1	946.7	570,109.08	732,690.01	32° 33' 56.621 N	103° 42' 43.936 W
10,700.0	23.73	179.67	10,609.6	275.6	946.8	570,091.39	732,690.11	32° 33' 56.527 N	103° 42' 43.936 W
10,725.0	26.73	179.67	10,632.2	265.0	946.9	570,080.73	732,690.17	32° 33' 56.422 N	103° 42' 43.936 W
10,750.0	29.73	179.67	10,654.3	253.2	946.9	570,068.91	732,690.23	32° 33′ 56.305 N	103° 42' 43.936 W
10,775.0	32.73	179.67	10,675.6	240.2	947.0	570,055.95	732,690.31	32° 33' 56.177 N	103° 42' 43.936 W
10,800.0	35.73	179.67	10,696.3	226.1	947.1	570,041.89	732,690.39	32° 33' 56.038 N	103° 42' 43.936 W
10,825.0 10,850.0	38.73 41.73	179.67 179.67	10,716.2 10,735.3	211.0 194.9	947.2 947.3	570,026.77 570,010.62	732,690.47 732,690.57	32° 33' 55.888 N 32° 33' 55.728 N	103° 42' 43.936 W 103° 42' 43.936 W
10,875.0	44.73	179.67	10,753.5	177.8	947.3	569,993.50	732,690.66	32° 33' 55.559 N	103° 42' 43.936 W
10,900.0	47.73	179.67	10,770.8	159.7	947.5	569,975.45	732,690.77	32° 33' 55.380 N	103° 42' 43.936 W
10,925.0	50.73	179.67	10,787.1	140.8	947.6	569,956.52	732,690.88	32° 33' 55.193 N	103° 42' 43.936 W
10,950.0	53.73	179.67	10,802.4	121.0	947.7	569,936.76	732,690.99	32° 33' 54.997 N	103° 42' 43.936 W
10,975.0	56.73	179.67	10,816.7	100.5	947.8	569,916.23	732,691.10	32° 33' 54.794 N	103° 42' 43.936 W
11,000.0	59.73	179.67	10,829.9	79.2	947.9	569,894.98	732,691.23	32° 33' 54.584 N	103° 42' 43.936 W
11,025.0 11,050.0	62.73 65.73	179.67 179.67	10,841.9 10,852.8	57.3 34.8	948.0 948.2	569,873.07 569,850.56	732,691.35 732,691.48	32° 33' 54.367 N 32° 33' 54.144 N	103° 42' 43.936 W 103° 42' 43.936 W
11,075.0	68.73	179.67	10,862.4	11.8	948.3	569,827.51	732,691.61	32° 33' 53.916 N	103° 42' 43.936 W
11,100.0	71.73	179.67	10,870.9	-11.8	948.4	569,803.99	732,691.74	32° 33' 53.683 N	103° 42' 43.936 W
11,125.0	74.73	179.67	10,878.1	-35.7	948.6	569,780.05	732,691.88	32° 33′ 53.447 N	103° 42' 43.936 W
11,150.0	77.73	179.67	10,884.1	-60.0	948.7	569,755.77	732,692.02	32° 33' 53.206 N	103° 42' 43.936 W
11,175.0	80.73	179.67	10,888.7	-84.5	948.8	569,731.22	732,692.16	32° 33' 52.963 N	103° 42' 43.936 W
11,200.0	83.73 86.73	179.67	10,892.1 10,894.2	-109.3	949.0	569,706.45 569,681.54	732,692.30	32° 33' 52.718 N 32° 33' 52.472 N	103° 42' 43.936 W 103° 42' 43.936 W
11,225.0 11,252.3	90.00	179.67 179.67	10,894.2	-134.2 -161.5	949.1 949.3	569,654.30	732,692.44 732,692.60	32° 33' 52.202 N	103° 42′ 43.936 W
	100.3 hold a			101.0	0.10.0	000,001.00	102,002.00	02 00 02.20214	100 12 10.000 11
11,300.0	90.00	179.67	10,895.0	-209.2	949.6	569,606.56	732,692.87	32° 33' 51.730 N	103° 42' 43.936 W
11,400.0	90.00	179.67	10,895.0	-309.2	950.1	569,506.56	732,693.44	32° 33′ 50.740 N	103° 42' 43.937 W
11,500.0	90.00	179.67	10,895.0	-409.2	950.7	569,406.56	732,694.01	32° 33' 49.751 N	103° 42' 43.937 W
11,600.0	90.00	179.67	10,895.0	-509.2	951.3	569,306.56	732,694.58	32° 33' 48.761 N	103° 42' 43.937 W
11,700.0 11,800.0	90.00 90.00	179.67 179.67	10,895.0 10,895.0	-609.2 -709.2	951.8 952.4	569,206.56 569,106.56	732,695.15 732,695.72	32° 33' 47.772 N 32° 33' 46.782 N	103° 42' 43.937 W 103° 42' 43.937 W
11,900.0	90.00	179.67	10,895.0	-809.2	952.4	569,006.57	732,696.29	32° 33' 45.793 N	103° 42' 43.937 W
12,000.0	90.00	179.67	10,895.0	-909.2	953.5	568,906.57	732,696.86	32° 33' 44.803 N	103° 42' 43.938 W
12,100.0	90.00	179.67	10,895.0	-1,009.2	954.1	568,806.57	732,697.43	32° 33' 43.814 N	103° 42' 43.938 W
12,200.0	90.00	179.67	10,895.0	-1,109.2	954.7	568,706.57	732,698.00	32° 33' 42.824 N	103° 42' 43.938 W
12,300.0	90.00	179.67	10,895.0	-1,209.2	955.3	568,606.57	732,698.57	32° 33' 41.835 N	103° 42' 43.938 W
12,400.0	90.00	179.67	10,895.0	-1,309.2	955.8	568,506.57	732,699.14	32° 33' 40.845 N	103° 42' 43.938 W
12,500.0	90.00	179.67	10,895.0	-1,409.2 1,500.2	956.4	568,406.58	732,699.71	32° 33′ 39.856 N	103° 42' 43.938 W
12,600.0 12,700.0	90.00 90.00	179.67 179.67	10,895.0 10,895.0	-1,509.2 -1,609.2	957.0 957.5	568,306.58 568,206.58	732,700.28 732,700.85	32° 33' 38.866 N 32° 33' 37.877 N	103° 42' 43.939 W 103° 42' 43.939 W
12,800.0	90.00	179.67	10,895.0	-1,709.2	958.1	568,106.58	732,700.83	32° 33' 36.887 N	103° 42' 43.939 W
12,900.0	90.00	179.67	10,895.0	-1,809.2	958.7	568,006.58	732,701.99	32° 33' 35.898 N	103° 42' 43.939 W
13,000.0	90.00	179.67	10,895.0	-1,909.2	959.2	567,906.58	732,702.56	32° 33' 34.908 N	103° 42' 43.939 W

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) LEASite:PASKE PROJECT

Well: PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0 Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well PAKSE 5 SOUTH FED COM 324H

KB @ 3575.2usft KB @ 3575.2usft

Grid Minimum Curvature

Design:	PWF	90							
Planned Surv	/ey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,100.0		179.67	10,895.0	-2,009.2	959.8	567,806.59	732,703.13	32° 33' 33.919 N	103° 42' 43.939 W
13,200.0		179.67 179.67	10,895.0	-2,109.2	960.4	567,706.59	732,703.70	32° 33′ 32.929 N	103° 42' 43.939 W
13,300.0 13,379.0		179.67	10,895.0 10,895.0	-2,209.2 -2,288.1	961.0 961.4	567,606.59 567,527.62	732,704.27 732,704.72	32° 33' 31.940 N 32° 33' 31.158 N	103° 42' 43.940 W 103° 42' 43.940 W
	016640A En		•	-2,200.1	301.4	301,321.02	732,704.72	32 33 31.130 N	103 42 43.940 W
13,400.0		179.67	10,895.0	-2,309.2	961.5	567,506.59	732,704.84	32° 33' 30.950 N	103° 42' 43.940 W
13,500.0		179.67	10,895.0	-2,409.2	962.1	567,406.59	732,705.41	32° 33' 29.960 N	103° 42' 43.940 W
13,600.0		179.67	10,895.0	-2,509.2	962.7	567,306.59	732,705.98	32° 33′ 28.971 N	103° 42' 43.940 W
13,700.0		179.67	10,895.0	-2,609.2	963.2	567,206.60	732,706.55	32° 33' 27.981 N	103° 42' 43.940 W
13,800.0		179.67	10,895.0	-2,709.2	963.8	567,106.60	732,707.12	32° 33' 26.992 N	103° 42' 43.940 W
13,900.0 14,000.0		179.67 179.67	10,895.0 10,895.0	-2,809.2 -2,909.2	964.4 964.9	567,006.60 566,906.60	732,707.69 732,708.26	32° 33' 26.002 N 32° 33' 25.013 N	103° 42' 43.941 W 103° 42' 43.941 W
14,100.0		179.67	10,895.0	-3,009.2	965.5	566,806.60	732,708.83	32° 33' 24.023 N	103° 42' 43.941 W
14,200.0		179.67	10,895.0	-3,109.1	966.1	566,706.60	732,709.40	32° 33' 23.034 N	103° 42' 43.941 W
14,300.0	90.00	179.67	10,895.0	-3,209.1	966.7	566,606.60	732,709.97	32° 33′ 22.044 N	103° 42' 43.941 W
14,400.0		179.67	10,895.0	-3,309.1	967.2	566,506.61	732,710.54	32° 33' 21.055 N	103° 42' 43.941 W
14,500.0		179.67	10,895.0	-3,409.1	967.8	566,406.61	732,711.11	32° 33' 20.065 N	103° 42' 43.942 W
14,600.0 14,700.0		179.67 179.67	10,895.0 10,895.0	-3,509.1 -3,609.1	968.4 968.9	566,306.61 566,206.61	732,711.68 732,712.25	32° 33' 19.076 N 32° 33' 18.086 N	103° 42' 43.942 W 103° 42' 43.942 W
14,700.0		179.67	10,895.0	-3,709.1 -3,709.1	969.5	566,106.61	732,712.82	32° 33' 17.097 N	103° 42' 43.942 W
14,900.0		179.67	10,895.0	-3,809.1	970.1	566,006.61	732,713.39	32° 33' 16.107 N	103° 42' 43.942 W
15,000.0		179.67	10,895.0	-3,909.1	970.6	565,906.62	732,713.96	32° 33' 15.118 N	103° 42' 43.942 W
15,100.0	90.00	179.67	10,895.0	-4,009.1	971.2	565,806.62	732,714.53	32° 33′ 14.128 N	103° 42' 43.942 W
15,200.0		179.67	10,895.0	-4,109.1	971.8	565,706.62	732,715.10	32° 33' 13.139 N	103° 42' 43.943 W
15,300.0		179.67	10,895.0	-4,209.1	972.4	565,606.62	732,715.67	32° 33' 12.149 N	103° 42' 43.943 W
15,400.0 15,500.0		179.67 179.67	10,895.0 10,895.0	-4,309.1 -4,409.1	972.9 973.5	565,506.62 565,406.62	732,716.24 732,716.81	32° 33' 11.160 N 32° 33' 10.170 N	103° 42' 43.943 W 103° 42' 43.943 W
15,600.0		179.67	10,895.0	-4,409.1 -4,509.1	974.1	565,306.63	732,710.81	32° 33' 9.181 N	103° 42' 43.943 W
15,700.0		179.67	10,895.0	-4,609.1	974.6	565,206.63	732,717.95	32° 33' 8.191 N	103° 42' 43.943 W
15,800.0		179.67	10,895.0	-4,709.1	975.2	565,106.63	732,718.52	32° 33' 7.202 N	103° 42' 43.944 W
15,900.0		179.67	10,895.0	-4,809.1	975.8	565,006.63	732,719.09	32° 33′ 6.212 N	103° 42' 43.944 W
16,000.0		179.67	10,895.0	-4,909.1	976.3	564,906.63	732,719.66	32° 33′ 5.223 N	103° 42' 43.944 W
16,022.0		179.67	10,895.0	-4,931.1	976.5	564,884.66	732,719.78	32° 33′ 5.005 N	103° 42' 43.944 W
16,100.0	015907 Ent 90.00	ry at 16022. 179.67	10,895.0	-5,009.1	976.9	564,806.63	732,720.23	32° 33′ 4.233 N	103° 42' 43.944 W
16,200.0		179.67	10,895.0	-5,009.1 -5,109.1	977.5	564,706.64	732,720.80	32° 33' 3.244 N	103° 42' 43.944 W
16,300.0		179.67	10,895.0	-5,209.1	978.1	564,606.64	732,721.37	32° 33' 2.254 N	103° 42' 43.944 W
16,400.0	90.00	179.67	10,895.0	-5,309.1	978.6	564,506.64	732,721.94	32° 33′ 1.265 N	103° 42' 43.944 W
16,500.0		179.67	10,895.0	-5,409.1	979.2	564,406.64	732,722.51	32° 33' 0.275 N	103° 42' 43.945 W
16,600.0		179.67	10,895.0	-5,509.1	979.8	564,306.64	732,723.08	32° 32' 59.286 N	103° 42' 43.945 W
16,700.0		179.67	10,895.0	-5,609.1	980.3	564,206.64 564,106.65	732,723.65	32° 32' 58.296 N	103° 42' 43.945 W
16,800.0 16,900.0		179.67 179.67	10,895.0 10,895.0	-5,709.1 -5,809.1	980.9 981.5	564,106.65 564,006.65	732,724.22 732,724.79	32° 32' 57.307 N 32° 32' 56.317 N	103° 42' 43.945 W 103° 42' 43.945 W
17,000.0		179.67	10,895.0	-5,809.1 -5,909.1	982.0	563,906.65	732,725.36	32° 32' 55.328 N	103° 42' 43.945 W
17,100.0		179.67	10,895.0	-6,009.1	982.6	563,806.65	732,725.93	32° 32' 54.338 N	103° 42' 43.946 W
17,200.0	90.00	179.67	10,895.0	-6,109.1	983.2	563,706.65	732,726.50	32° 32′ 53.349 N	103° 42' 43.946 W
17,300.0			10,895.0	-6,209.1	983.8	563,606.65	732,727.07	32° 32' 52.359 N	103° 42' 43.946 W
17,400.0		179.67	10,895.0	-6,309.1	984.3	563,506.66	732,727.64	32° 32′ 51.369 N	103° 42' 43.946 W
17,500.0		179.67	10,895.0	-6,409.1	984.9	563,406.66 563,306.66	732,728.21 732,728.78	32° 32′ 50.380 N	103° 42' 43.946 W
17,600.0 17,700.0		179.67 179.67	10,895.0 10,895.0	-6,509.1 -6,609.1	985.5 986.0	563,206.66	732,728.78	32° 32' 49.390 N 32° 32' 48.401 N	103° 42' 43.946 W 103° 42' 43.947 W
17,700.0		179.67	10,895.0	-6,709.1 -6,709.1	986.6	563,106.66	732,729.92	32° 32' 47.411 N	103° 42' 43.947 W
17,900.0		179.67	10,895.0	-6,809.1	987.2	563,006.66	732,730.49	32° 32' 46.422 N	103° 42' 43.947 W
18,000.0		179.67	10,895.0	-6,909.1	987.7	562,906.67	732,731.06	32° 32' 45.432 N	103° 42' 43.947 W

103° 42' 43.948 W

103° 42' 43.948 W

103° 42' 43.948 W

Permian Resources

Planning Report - Geographic

Database:CompassCompany:NEW MEXICOProject:(SP) LEASite:PASKE PROJECT

PAKSE 5 SOUTH FED COM 324H

Wellbore: OWB Design: PWP0

Well:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

562,406.67

562,306.67

562,254.07

Well PAKSE 5 SOUTH FED COM 324H

32° 32' 40.485 N

32° 32' 39.495 N

32° 32' 38.975 N

KB @ 3575.2usft KB @ 3575.2usft

Grid

732,733.91

732,734.48

732,734.78

Minimum Curvature

Planned Sur	vey								
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,100.0	90.00	179.67	10,895.0	-7,009.1	988.3	562,806.67	732,731.63	32° 32' 44.443 N	103° 42' 43.947 W
18,200.0	90.00	179.67	10,895.0	-7,109.1	988.9	562,706.67	732,732.20	32° 32′ 43.453 N	103° 42' 43.947 W
18,300.0	90.00	179.67	10,895.0	-7,209.1	989.5	562,606.67	732,732.77	32° 32′ 42.464 N	103° 42' 43.947 W
18,400.0	90.00	179.67	10,895.0	-7,309.1	990.0	562,506.67	732,733.34	32° 32' 41.474 N	103° 42' 43.948 W

990.6

991.2

991.5

TD at 18652.6

90.00

90.00

90.00

179.67

179.67

179.67

10,895.0

10,895.0

10,895.0

-7,409.1

-7,509.1

-7,561.7

18,500.0

18,600.0

18,652.6

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP-PAKSE 5 S FC 3 - plan misses targ - Point			10,895.0 at 10908.2u	256.0 sft MD (1077	946.6 6.2 TVD, 15	570,071.77 3.6 N, 947.5 E)	732,689.88	32° 33′ 56.333 N	103° 42' 43.940 W
LTP-PAKSE 5 S FC 3 - plan misses targ - Point			10,895.0 8562.6usft	-7,471.7 MD (10895.0	991.0 0 TVD, -747	562,344.07 1.7 N, 990.9 E)	732,734.32	32° 32' 39.865 N	103° 42' 43.947 W
BHL-PAKSE 5 S FC 3 - plan hits target 6 - Point		0.00	10,895.0	-7,561.7	991.5	562,254.07	732,734.78	32° 32' 38.975 N	103° 42' 43.948 W

Plan Annotation	ons				
1	Measured Depth (usft)	Vertical Depth (usft)	Local Coor +N/-S (usft)	dinates +E/-W (usft)	Comment
	2,000.0	2,000.0	0.0	0.0	Start Build 2.00
	2,500.0	2,497.5	13.8	41.3	Start 5245.5 hold at 2500.0 MD
	7,745.5	7,663.3	302.2	905.3	Start Drop -2.00
	8,245.5	8,160.7	316.0	946.6	Start 2256.8 hold at 8245.5 MD
	10,502.3	10,417.5	316.0	946.6	Start DLS 12.00 TFO 179.67
	11,252.3	10,895.0	-161.5	949.3	Start 7400.3 hold at 11252.3 MD
	13,379.0	10,895.0	-2,288.1	961.4	NMNM 016640A Entry at 13379.0 MD
	16,022.0	10,895.0	-4,931.1	976.5	NMNM 015907 Entry at 16022.0 MD
	18,652.6	10,895.0	-7,561.7	991.5	TD at 18652.6

Permian Resources - Pakse 5 South Fed Com 324H

1. Geologic Formations

Formation	Lithology	Elevation	TVD	Target
Rustler	Sandstone	2424	1151	No
Top of Salt	Salt	2208	1367	No
Tansill	Sandstone	650	2925	No
Capitan	Sandstone	-123	3698	No
Delaware Sands	Sandstone	-1119	4694	No
Brushy Canyon	Sandstone	-2620	6195	No
Bone Spring Lime	Limestone/Shale	-4321	7896	No
1st Bone Spring Sand	Sandstone/Limestone/Shale	-5343	8918	No
2nd Bone Spring Sand	Sandstone/Limestone/Shale	-5894	9469	No
3rd Bone Spring Sand	Sandstone/Limestone/Shale	-6963	10538	Yes
Wolfcamp	Shale	-7366	10941	No

2. Blowout Prevention

BOP installed and tested before drilling	Size?	Min. Required WP	Ту	p e	x	Tested to:
			Anr	nular	Х	1000 psi
			Blind	Ram		
12.25	20"	2M	Pipe	Ram		
			Double	e Ram		
			Other*			
			Anr	nular	Х	2500 psi
			Blind Ram		Х	
9.875	13-5/8"	5M	Pipe Ram		Х	5000 psi
			Double Ram			5000 psi
			Other*			
			Anr	nular	Х	2500 psi
			Blind	Ram	Х	
7.875	13-5/8"	3-5/8" 5M		Pipe Ram		5000 mail
			Double	e Ram		5000 psi
			Other*			

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

Requesting Variance? YES

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

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

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

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

3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Top TVD	Bottom TVD	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	1176	0	1176	1176	J55	54.5	BTC	1.95	2.21	Dry	5.54	Dry	5.20
Intermediate 1	12.25	10.75	0	2950	0	2950	2950	J55	45.5	BTC	8.10	3.95	Dry	4.54	Dry	4.44
Intermediate 2	9.875	8.625	0	4644	0	4644	4644	P110 HS	32	MO-FXL	4.70	2.30	Dry	3.17	Dry	4.60
Production	7.875	5.5	0	11252	0	10895	11252	P110RY	20	GeoConn	1.96	2.05	Dry	2.02	Dry	2.02
Production	7.875	5.5	11252	18652	10895	10895	7400	P110RY	20	GeoConn	1.96	2.05	Dry	2.02	Dry	2.02
								BLM Mi	n Safe	ty Factor	1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quanity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Tail	0	1176	920	1.34	14.8	1230	50%	Class C	Accelerator
										EconoCem-HLC + 5% Salt +
Intermediate 1	Lead	0	2360	330	1.88	12.9	620	50%	Class C	5% Kol-Seal
Intermediate 1	Tail	2360	2950	130	1.34	14.8	170	50%	Class C	Retarder
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	10502	630	2.41	11.5	1510	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	10502	18652	1030	1.73	12.5	1770	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 oter conditions: Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

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

Cuttings Volume: 9060 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	11252	Brine	9	10
11252	18652	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:	9060 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

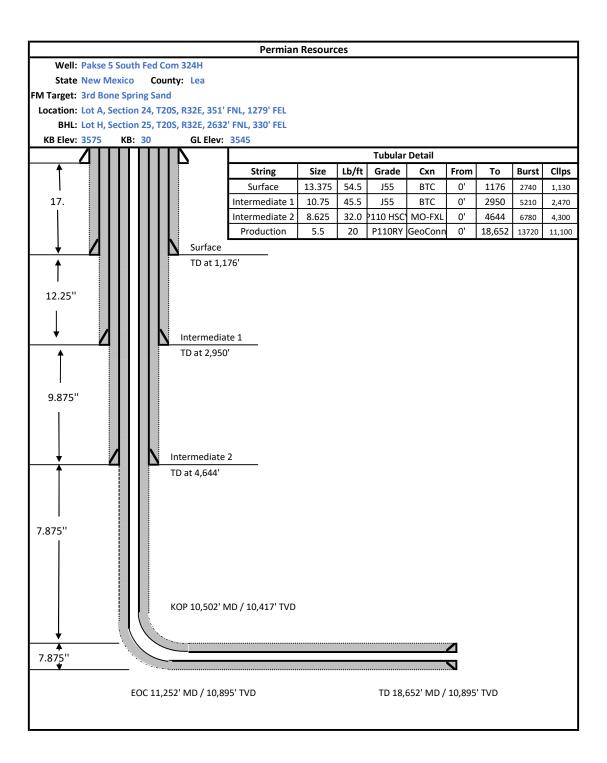
9. Other Information

Well Plan and AC Report: attached Batching Drilling Procedure: attached

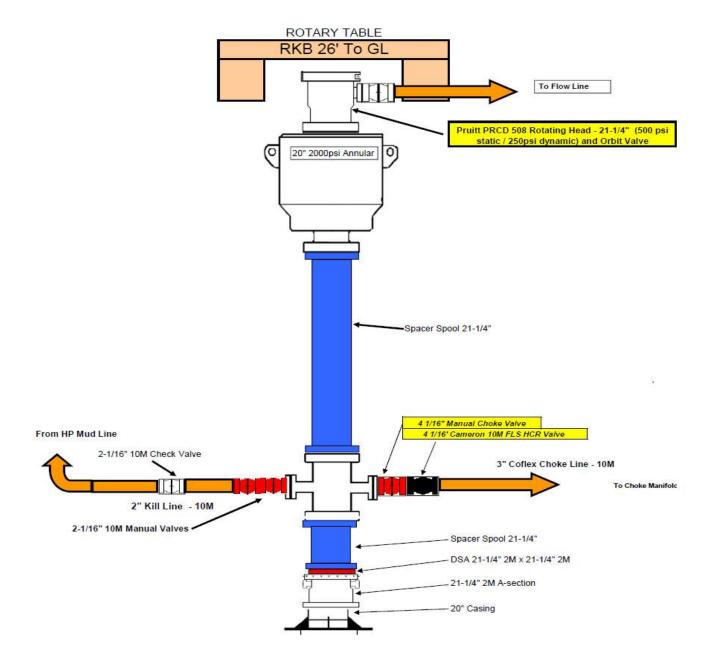
WBD: attached

Flex Hose Specs: attached

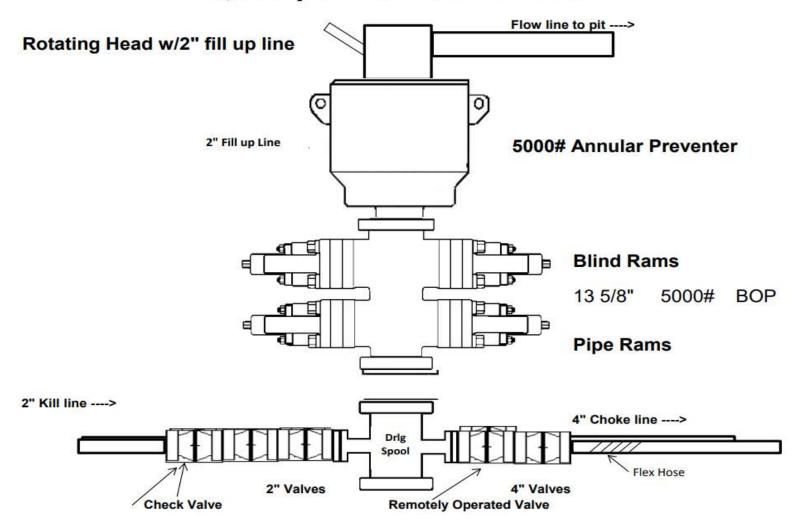
Offline Cementing Procedure: attached Break Testing Procedure: attached



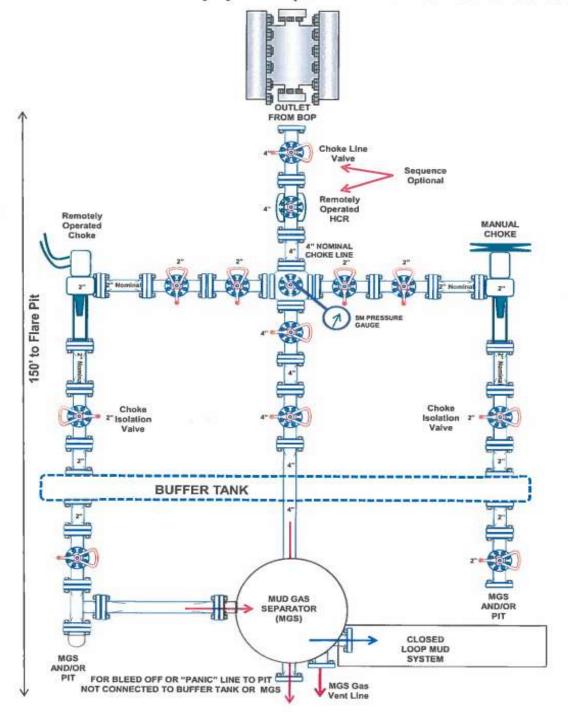
2M BOP



5,000 psi BOP Schematic



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





CONTITECH RUBBER No:QC-DB- 210/ 2014 Industrial Kft. Page: 9 / 113

	N AND TES		ATE		CERT.	N'S	504	
PURCHASER:	ContiTech	Oil & Marine C	orp.		P.O. Nº	Á A	450040965	9
CONTITECH PLUBBER ord	er Nº; 538236	HOSE TYPE:	3*	ID:		Choke and	d Kill Hose	
HOSE SERIAL Nº:	67255	NOMINAL / ACT	TUAL LE	INGTH:		10,67 m	n / 10,77 m	
W.P. 68,9 MPa	10000 psi	T.P. 103,4	MPa	1500	10 psi	Duration	60	min
	9	See attachme	ent. (1	l page)			
1000 March 1000 March 1000 M	Min. MPs							
100,000	MPs	Serial	N°		c	lumity.	Heat	N.
→ 10 mm = 20	MPs Type	Serial 9251	N= 925	4		Junity SI 4130	Heat A057	
→ 10 mm ≈ 20 COUPLINGS	MPs Type with	10.49.00	-	4	Als	2000	-	9N
OUPLINGS 3" coupling 4 1/16" 10K API b.w Not Designe All metal parts are flawles we centify that the AB	MPs Type with Flange end d For Well To	9251	925	CCORDA	AIS	81 4130 61 4130 A Temp	A057 0356 PI Spec 16 perature ra	9N 08 3 C ite:"B"
OUPLINGS 3" coupling 4 1/16" 10K API b w Not Designe	MPs Type with Flange end d For Well To s OWE HOSE HAS BE IE TESTED AS ABO dITY. We hereby of of the above Purce ed standards, codes	9251 esting EEN MANUFACTUR VE WITH SATISFA cedify that the above thaser Order and the	925 SEO IN AVICTORY The demand meet	CCORDA RESULT equipment Fernsled the relev	Als Als unce with it supplies quipment ant accep	A Temp H THE TERMS t by us are in were fabricate	A057 0356 PI Spec 16 perature ra s OF THE ORDS conformity with d inspected and not design require	SN 08 C te:"B"

Contributive Multiple Religions (E.). Suppose of 10: 44.8728 English H 4707 P.O. Nov. 102 English H 47

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

Page: 1/1

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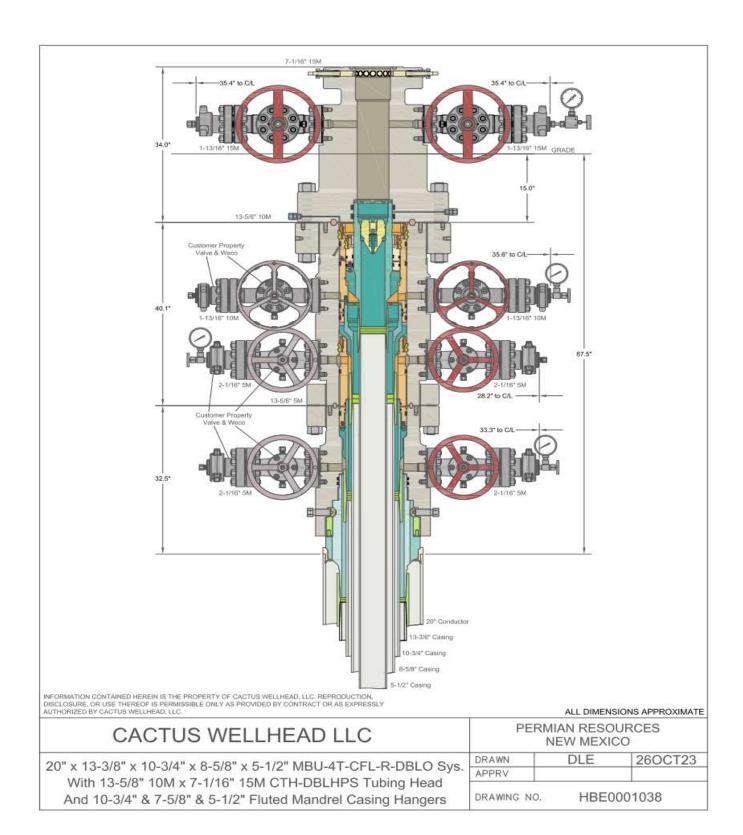
Page: 15 / 113

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 CAV BX155 R.GR.SOUR
H2S service NACE MR0175	Yes
Working Pressure	10 000 psi
Design Pressure	10 000 psi
Test Pressure	15 000 psi
Safety Factor	2,25
Marking	USUAL PHOENIX
Cover	NOT FIRE RESISTANT
Outside protection	St.steel outer wrap
Internal stripwound tube	No
Lining	OIL + GAS RESISTANT SOUR
Safety clamp	No
Lifting collar	No
Element C	No
Safety chain	No
Safety wire rope	No
Max.design temperature [°C]	100
Min.design temperature [°C]	-20
Min. Bend Radius operating [m]	0,90
Min. Bend Radius storage [m]	0,90
Electrical continuity	The Hose is electrically continuous
Type of packing	WOODEN CRATE ISPM-15

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Permian Resources Casing Design Criteria

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

Casing Design Assumptions:

Surface

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

Intermediate I

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

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

Intermediate or Intermediate II

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

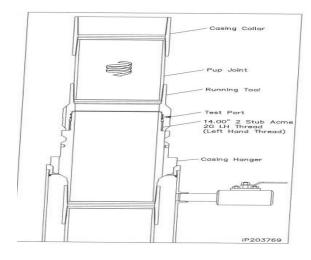
Production

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

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

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

- 1. Drill Surface hole to Approved Depth with Surface Preset Rig and perform wellbore cleanup cycles. Trip out and rack back drilling BHA.
- 2. Run casing with Cactus Multibowl system, with baseplate supported by Conductor.
- 3. Circulate 1.5 csg capacity.
- 4. Flow test Confirm well is static.
- 5. Install cap flange.
- 6. Skid rig to next well on pad
- 7. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 8. Install offline cement tool.
- 9. Rig up cementers.
- 10. Circulate bottoms up with cement truck
- 11. Commence planned cement job, take returns through the annulus wellhead valve
- 12. After plug is bumped confirm floats hold and well is static
- 13. Perform green cement casing test.
 - a) Test Surface casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 14. Rig down cementers and equipment
- 15. Install night cap with pressure gauge to monitor.

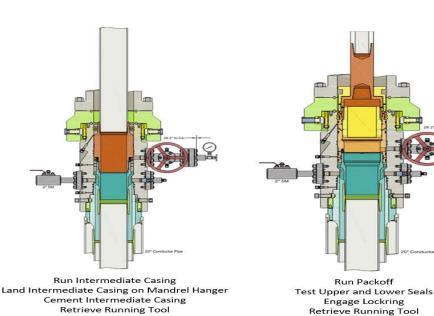


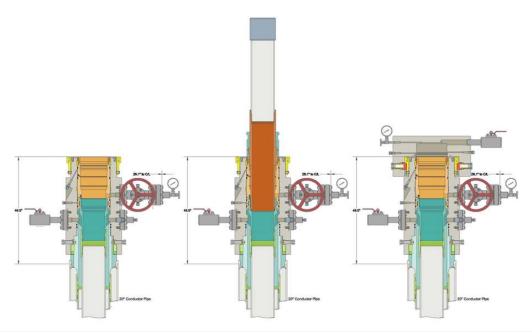
<u>Intermediate 1 Casing</u> – PR intends to Batch set all intermediate 1 casing strings to a depth approved in the APD, typically set into end of salts. Appropriate notifications will be made prior Testing BOPE, and prior to running/cementing all casing strings.

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

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

- 1. Drill Intermediate 1 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 2. Remove wear bushing then run and land Intermediate 1 casing with mandrel hanger in wellhead.
- 3. Flow test Confirm well is static.
- 4. Set Annular packoff and pressure test. Test to 5k.
- 5. Install BPV, Nipple down BOP and install cap flange.
- 6. Skid rig to next well on pad
- 7. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - 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.





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

- 1. Rig will remove the nightcap and install and test BOPE (testing will be performed on the first Intermediate 2 as per requested break testing variance).
- 2. Install wear bushing then drill out Intermediate 1 shoe-track.
- 3. Drill Intermediate 2 hole to approved casing point. Trip out of hole with BHA to run Casing.
- 4. Remove wear bushing then run and land Intermediate 2 casing with mandrel hanger in wellhead.
- 5. Flow test Confirm well is static.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Install BPV, Nipple down BOP and install cap flange.
- 8. Skid rig to next well on pad
- 9. Remove cap flange (confirm well is static before removal)
 - a) If well is not static use the casing outlet valves to kill well
 - b) Drillers method will be used in well control event
 - c) High pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - d) Kill mud will be circulated once influx is circulated out of hole
 - e) Confirm well is static and remove cap flange to start offline cement operations
- 10. Install offline cement tool.
- 11. Rig up cementers.
- 12. Circulate bottoms up with cement truck
- 13. Commence planned cement job, take returns through the annulus wellhead valve
- 14. After plug is bumped confirm floats hold and well is static
- 15. Perform green cement casing test.
 - a) Test casing (.22 psi/ft or 1500 psi whichever is greater) not to exceed 70% casing burst.
- 16. Rig down cementers and equipment
- 17. Install night cap with pressure gauge to monitor.

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

- 1. Rig will remove the nightcap and install and test BOPE.
- 2. Install wear bushing then drill Intermediate shoe-track.
- 3. Drill Vertical hole to KOP Trip out for Curve BHA.
- 4. Drill Curve, landing in production interval Trip for Lateral BHA.
- 5. Drill Lateral / Production hole to Permitted BHL, perform cleanup cycles and trip out to run Production Casing.
- 6. Remove wear bushing then run Production casing to TD landing casing mandrel in wellhead.
- 7. Cement Production string to surface with floats holding.

Permian Resources BOP Break Testing Variance Procedure

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System



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

52	API STANDARD	53					
Та	ble C.4—Initial Pressure Te	esting. Surface BOP Stacks					
	Pressure Test—Low	Pressure Test—High Pressure*					
Component to be Pressure Tested	Pressure** psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastome or Ring Gasket				
Annular preventer	250 to 350 (1 72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.				
Fixed pipe, variable bore, blind, and BSR preventers∞	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ПР				
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	ІТР				
Choke manifold—upstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ПР				
Choke manifold—downstream of chokes*	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	ASP for the well program,				
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program					
	during the evaluation period. The p	vessure shall not decrease below the allest OD drill pipe to be used in well p					
For pad drilling operations, moving pressure-controlling connections	from one wellhead to another within when the integrity of a pressure sea	n the 21 days, pressure testing is requal is broken.	uired for pressure-containing an				
For surface offshore operations, the	ne ram BOPs shall be pressure test band operations, the ram BOPs sha	led with the ram locks engaged and ill be pressure tested with the ram loo					

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

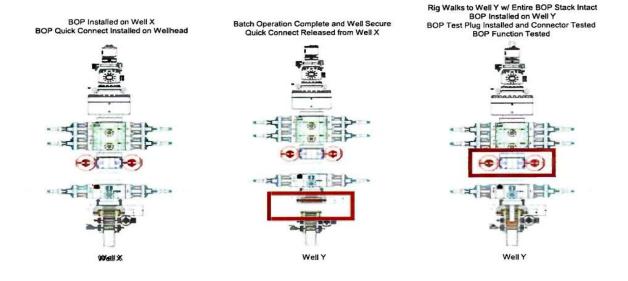
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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

Procedures

- 1) Permian Resources will use this document for our break testing plan for New Mexico Delaware Basin. The summary below will be referenced in the APD or Sundry Notice and receive approval prior to implementing this variance.
- 2) Permian Resources will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a)A full BOP test will be conducted on the first well on the pad.
- b) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same formation depth or shallower.
- c) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d) A full BOP test will be required prior to drilling any production hole.
- 3) After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a) Between the HCV valve and choke line connection
 - b)Between the BOP quick connect and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5) After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6) The connections mentioned in 3a and 3b will then be reconnected.
- 7) Install test plug into the wellhead using test joint or drill pipe.
- 8) A shell test is performed against the upper pipe rams testing the two breaks.
- 9) The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10) Function tests will be performed on the following components: lower pipe rams, blind rams, and annular.
- 11) For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12) A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

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



Summary

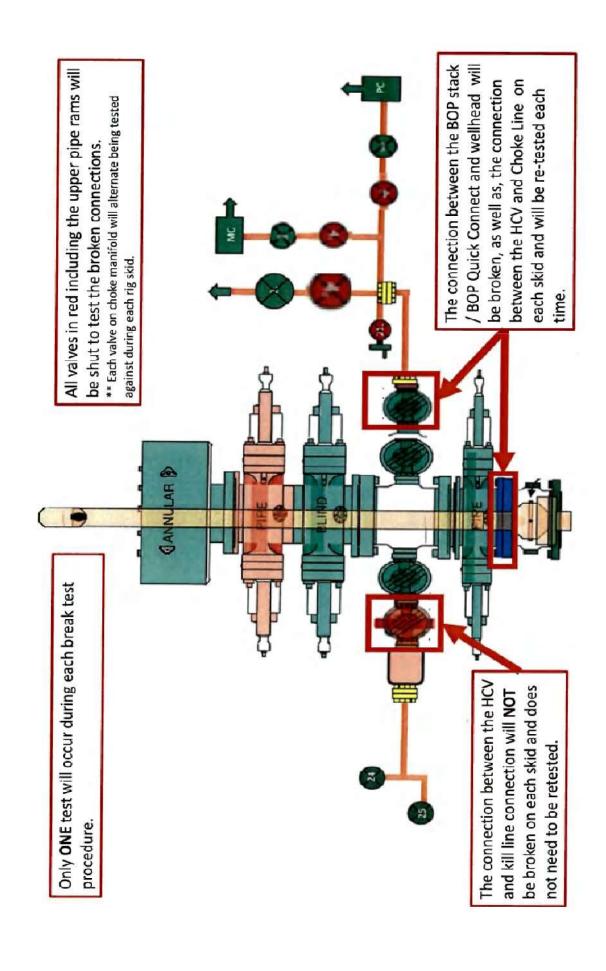
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required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

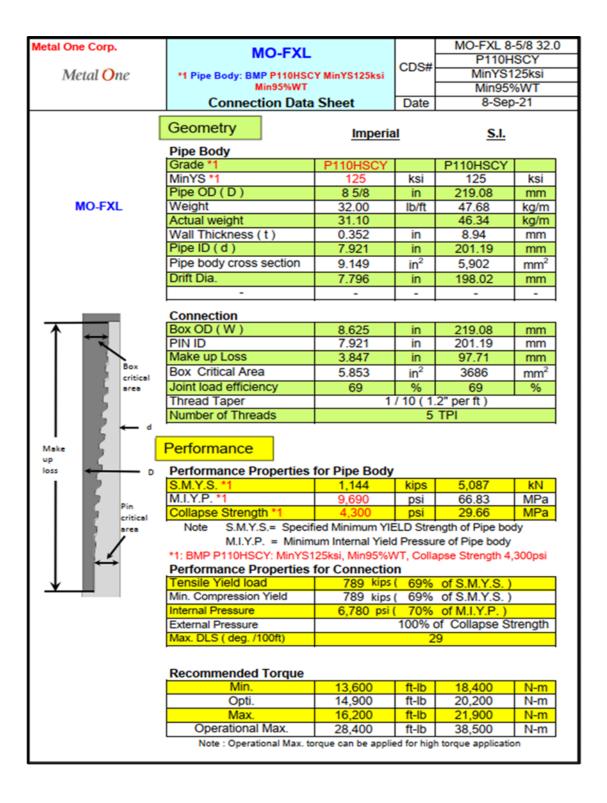
The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control

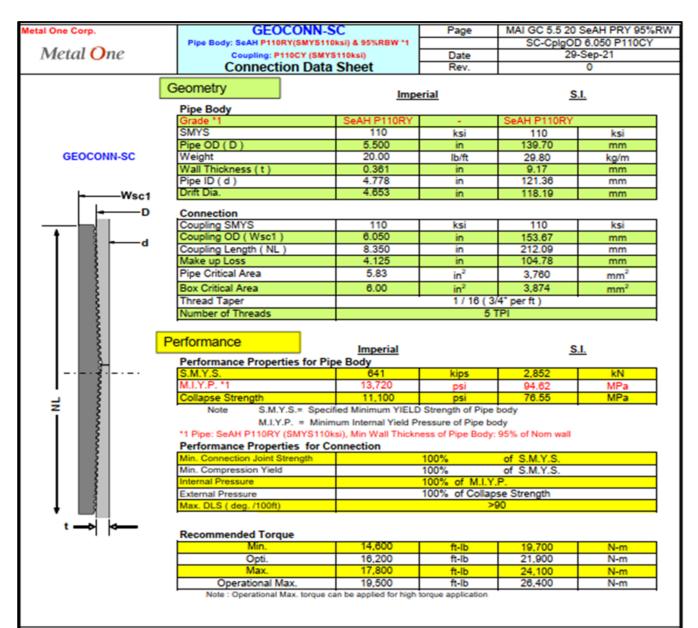
event occurs prior to the commencement of a BOPE Break Testing operation.

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

- 1) After a full BOP test is conducted on the first well on the pad.
- 2) The first intermediate hole section drilled on the pad will be the deepest. All the remaining hole sections will be the same depth or shallower.
- 3) A full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4) A full BOP test will be required prior to drilling the production hole.







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ments 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.

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

PAKSE 3, 4, & 5 SOUTH FED COM

13 3/8	S	urface csg in a	17 1/2	inch hole.	role. <u>Design Factors</u> Surface			æ				
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
1	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 o	f Proposed to	Minimum Required Cement \	/olumes_									
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

10 3/4	ca	sing inside the	13 3/8			<u>Design</u>	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
"B"								0				0
1	w/8.4	4#/g mud, 30min Sfc Csg Test psi	g: 979				Totals:	3,500				159,250
		The cement vo	lume(s) are inten	ded to achieve a top of	0	ft from su	rface or a	1230				overlap.
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 !
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 %:		#VALUE!	#VALUE!				460	795				10
Class 'H' tail cmt yld > 1.20 Does not meet CFO cement excess												
'												i

8 5/8	cas	sing inside the	10 3/4			Design Fac	ctors		-	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
"B"								0				0
	w/8.4	#/g mud, 30min Sfc Csg Test p	sig: 1,500				Totals:	5,290				169,280
		The cement vo	olume(s) are intend	ded to achieve a top of	0	ft from su	rface or a	3500				overlap.
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
9 7/8	0.1261	410	705	696	1	9.50	3305	5M				0.63
Class 'C' tail cn	nt yld > 1.35											
	Does not meet CFO cement excess											

'ft .00	Grade		A								
00			Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
.00	Р	110	geoconn	1.15	1.73	2.39	11,352	2	4.15	3.36	227,040
.00	P	110	geoconn	∞	1.94	2.39	12,669	2	4.15	3.36	253,380
w/8.4#/g mud, 30	min Sfc Csg Test psig	: 2,428				Totals:	24,021				480,420
	The cement volu	ıme(s) are intende	d to achieve a top of	5090	ft from su	rface or a	200			1	overlap.
ular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
ıme	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
733	2310	4418	3281	35	10.00						0.91
Class 'H' tail cmt yld > 1.20 Capitan Reef est top XXXX.											
1	nular ume 733	w/8.4#/g mud, 30min Sfc Csg Test psig The cement volu nular 1 Stage ume Cmt Sx 733 2310	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intende nular 1 Stage 1 Stage ume Cmt Sx CuFt Cmt 733 2310 4418	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of nular 1 Stage 1 Stage Min Cmt Sx CuFt Cmt Cu Ft 733 2310 4418 3281	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of solular 1 Stage 1 Stage Min 1 Stage ume Cmt Sx CuFt Cmt Cu Ft % Excess 733 2310 4418 3281 35	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of solution and solution and solution are intended to achieve a top of solution and solution are intended to achieve a top of solution such as solution and solution are intended to achieve a top of solution such as solution and solution are intended to achieve a top of solution such as solution solution are intended to achieve a top of solution such as solution solution are intended to achieve a top of solution such as solution solution are intended to achieve a top of solution such as solution solution solution are intended to achieve a top of solution such as solution solu	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of sular 1 Stage 1 Stage Min 1 Stage Drilling Calc WExcess Mud Wt MASP 733 2310 4418 3281 35 10.00	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of sular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd BOPE 733 24,021 24,021 1 Stage Min 1 Stage Mun Cu Ft W Excess Mud Wt MASP BOPE	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of sular 1 Stage Cmt Sx CuFt Cmt Cu Ft Cu Ft Stage CuFt Cmt Cu Ft Stage CuFt Cmt Stage Stag	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of sular 1 Stage 1 Stage Min 1 Stage Drilling Calc Req'd ume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 733 2310 4418 3281 35 10.00	w/8.4#/g mud, 30min Sfc Csg Test psig: 2,428 The cement volume(s) are intended to achieve a top of sular 1 Stage Min 1 Stage Drilling Calc ume Cmt Sx CuFt Cmt Cu Ft % Excess Mud Wt MASP BOPE 733 2310 4418 3281 35 10.00

Carlsbad Field Office 2/21/2024

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: EARTHSTONE OPERATING LLC
WELL NAME & NO.: PAKSE 5 SOUTH FED COM 324H
SURFACE HOLE FOOTAGE: 351'/N & 1279'/E
BOTTOM HOLE FOOTAGE 2632'/N & 330'/E
LOCATION: Section 24, T.20 S., R.32 E., NMP
COUNTY: Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

Primary Casing Design:

1. 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 <u>R111 Potash Areas</u> if cement does not circulate to surface on the first two salt protection casing strings, the cement on the 3rd casing salt string must come to surface.
- 3. The 8-5/8 inch intermediate 2 casing shall be set at approximately 5290 feet per BLM Geologist. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **50 feet** on top of Capitan Reef top **or 500 feet** into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

C. PRESSURE CONTROL

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. 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 $12 \frac{1}{4}$ inch intermediate hole.

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

GENERAL REQUIREMENTS

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

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

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

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

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

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 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 intergrity 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 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 2/27/2024

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 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 325951

CONDITIONS

Operator:	OGRID:
Earthstone Operating, LLC	331165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	325951
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY	6/1/2024