Received by OCD fir 7/22/2025 12:23:44 PM State of New Mexico Phone: (505) 476-3441 Revised July 18, 2013 Energy, Minerals and Natural Resources General Information WELL API NO. Phone: (505) 629-6116 30-015-56123 OIL CONSERVATION DIVISION Online Phone Directory Visit: 5. Indicate Type of Lease https://www.emnrd.nm.gov/ocd/contact-us/ 1220 South St. Francis Dr. STATE FEE Santa Fe, NM 87505 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement Name (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH Water Buffalo PROPOSALS.) 8. Well Number 213H 1. Type of Well: Oil Well Gas Well X Other 9. OGRID Number 2. Name of Operator Permian Resources Operating, LLC 372165 3. Address of Operator 10. Pool name or Wildcat 300 N. Marienfeld St Ste 1000 Midland, Texas 79701 Purple Sage; Wolfcamp (Gas) 4. Well Location . 1707 line and 378 Unit Letter feet from the feet from the East line Section **NMPM** County Eddy Township 22S Range 26E 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3185ft GL 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK □ PLUG AND ABANDON REMEDIAL WORK ALTERING CASING □ П X COMMENCE DRILLING OPNS. P AND A **TEMPORARILY ABANDON CHANGE PLANS** PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB DOWNHOLE COMMINGLE П **CLOSED-LOOP SYSTEM** OTHER: OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. Permian Resources Operating, LLC requests permission to make the following changes to the original APD: Name Change, FTP/LTP/BHL Change, Drilling Program, Acreage Change See Page 2 For Additional Details Spud Date: Rig Release Date:

TITLE Regulatory Manager

E-mail address:

TITLE

stephanie.rabadue@permianres.com

DATE 07/21/2025

DATE

PHONE: 432-260-4388

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Stephanie Rasadue

Conditions of Approval (if any):

Type or print name Stephanie Rabadue

SIGNATURE

For State Use Only

APPROVED BY:

Current Well Name/Number: Water Buffalo 213H

Change Well Name/Number to: Water Buffalo State Com 213H

Formation: No Change

FTP: Revised

Change From: 2236'FSL & 330'FWL, L-2-22S-26E Change To: 2320'FSL & 100'FWL, L-2-22S-26E

LTP: Revised

Change From: 2262'FSL & 330'FEL, I-1-22S-26E Change To: 2320'FSL & 100'FEL, I-1-22S-26E

BHL: Revised

Change From: 2262'FSL & 330'FEL, I-1-22S-26E Change To: 2320'FSL & 100'FEL, I-1-22S-26E

Acreage: Revised

From: 640 To: 1282.24

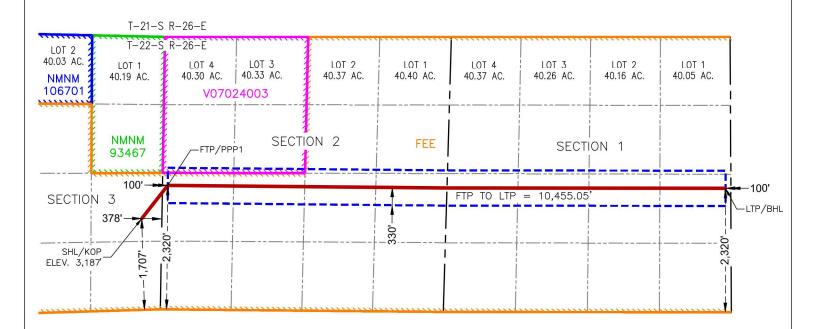
<u>C-10</u>	12		En			ıral Resources Depa	artment		ļ	Revised July 9, 2024		
	Electronically Permitting	/		OIL C	CONSERVA	TION DIVISION			☑ Initial Su	ıbmittal		
								Submittal Type:				
								турс.	☐ As Drille	d		
			l		WELL LOCAT	ION INFORMATION						
API Nu	ımber 15-56123		Pool Code 982	20		Pool Name	ole Sage; V	Volfcamp				
383383	ty Code	→ 337699	Property N			·			Well Number			
OGRIE	33540 No.	- 337699	Operator N			FFALO STATE COM	40X 600 - 200			213H vel Elevation		
	37216		N			JRCES OPERATING,				3,187'		
	Surface O	wner: State	e 🗵 Fee 🗆	I Tribal □	Federal	Mineral Owr	ner: 🛛 State	e IXI Fee L	□ Tribal □ Fe	ederal		
					Surfa	ce Location						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
L	3	22S	26E		1,707' FSL	378' FEL	32.4192	295° -1	04.273337°	EDDY		
					Bottom	Hole Location		•				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
I	1	22S	26E		2,320' FSL	100' FEL	32.4208	833° -1	04.237871°	EDDY		
Dedica	ted Acres	Infill or Defin	ing Well	Defining 30-015-	Well API -56123	Overlapping Spacing	Unit (Y/N)	Consolida C	tion Code			
Order I	Numbers.					Well setbacks are under Common Ownership: ☑Yes ☐No						
					Kick O	ff Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Tu	ongitude	County		
ı	3	228	26E	Lot	1,707' FSL	A SEE STATE OF SEE ASS	32.4192		04.273337°	EDDY		
					First Ta							
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
L	2	22S	26E		2,320' FSL	100' FWL	32.4210	003° -1	04.271753°	EDDY		
					Last Ta	ake Point (LTP)		*				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	L	ongitude	County		
1	1	228	26E		2,320' FSL	100' FEL	32.4208	833° -1	04.237871°	EDDY		
99.00		0.0.00										
Unitize N/A		rea of Uniform	Interest	Spacing	Unit Type 🛭 Ho	orizontal □ Vertical	Groui	nd Floor Ele	evation: TBD			
	<u>, , , , , , , , , , , , , , , , , , , </u>											
OPERA	ATOR CER	TIFICATIONS				SURVEYOR CERTIFIC	CATIONS					
best of r that this in the la well at t unlease	my knowledge organization nd including t his location p d mineral int	e and belief, and either owns a w he proposed bo ursuant to a con	l, if the well is vorking interes ttom hole loca itract with an c luntary pooling	a vertical or t or unlease tion or has a wner of a w	complete to the directional well, d mineral interest a right to drill this orking interest or or a compulsory	(12	ne on under modelief. RP	y supervision	olat was plotted n, and that the s	from field notes of ame is true and		
the cons mineral the well order fro	sent of at leas interest in ea 's completed om the divisio	t one lessee or ch tract (in the ta interval will be lo	owner of a wo arget pool or fo ocated or obtai	rking interes ormation) in	which any part of ulsory pooling	R. Chillippin	ESSIONAL	Date: 6/20/2025	5			
Signatu	re		D	ate		Signature and Seal of Pro	fessional Sur	veyor				
Step	hanie Rab	adue										
Printed	Name					Certificate Number	Date of Survey					
steph	anie.rabad	due@permia	nres.com			12177		6	6/20/2025			
Email A												
Note: No	allowable	will be assigne	ed to this cor	npletion ur	ntil all interests h	ave been consolidated o	r a non-stan	dard unit ha	as been appro	ved by the division.		

Released to Imaging: 8/8/2025 9:59:49 AM

ACREAGE DEDICATION PLATS

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

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



WATER BUFFALO STATE COM 213H

SURFACE HOLE LOCATION & KICK-OFF POINT 1,707' FSL & 378' FEL ELEV. = 3,187'

NAD 83 X = 559,850.64' NAD 83 Y = 516,275.96' NAD 83 LAT = 32.419295° NAD 81 LONG = -104.273337° NAD 27 X = 518,669.67' NAD 27 Y = 516,216.33' NAD 27 LAT = 32.419178° NAD 27 LONG = -104.272831° FIRST TAKE POINT & PENETRATION POINT 1 2,320' FSL & 100' FWL

NAD 83 X = 560,338.91'
NAD 83 Y = 516,897.51'
NAD 83 LAT = 32.421003°
NAD 83 LONG = -104.271753°
NAD 27 X = 519,157.94'
NAD 27 Y = 516,837.86'
NAD 27 LAT = 32.420886°
NAD 27 LONG = -104.271247°

LAST TAKE POINT & BOTTOM HOLE LOCATION 2,320' FSL & 100' FEL

NAD 83 X = 570,793.74' NAD 83 Y = 516,843.32' NAD 83 LAT = 32.420833° NAD 83 LONG = -104.237871° NAD 27 X = 529,612.58' NAD 27 Y = 516,783.51' NAD 27 LAT = 32.420715° NAD 27 LONG = -104.237366°

Permian Resources - Water Buffalo 213H

1. Geologic Formations

Formation	Elevation	TVD	Target
Rustler	3224	5	No
Top of Salt	2817	412	No
Capitan	2469	760	No
Lamar	1511	1718	No
Bell Canyon	1412	1817	No
Cherry Canyon	825	2404	No
Brushy Canyon	-159	3388	No
Bone Spring	-1710	4934	No
1st Bone Spring	-2861	6090	No
2nd Bone Spring	-3041	6270	No
3rd Bone Spring	-4899	8128	No
Wolfcamp	-5287	8516	Yes

2. Blowout Prevention

and tested before drilling which	Size?	Min. Required WP	Туре		х	Tested to:
			Ann	ıular	Х	2500 psi
			Blind	Ram	Х	
12.25	13-5/8"	5M	Pipe Ram		Х	5000 psi
			Doubl	e Ram		Judu psi
			Other*			
			Ann	ıular	Х	2500 psi
			Blind Ram		Х	
8.75	13-5/8"	5M	Pipe	Ram	Х	E000:
			Double Ram			5000 psi
			Other*			

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

Requesting Variance? YES

Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.

Testing Procedure: Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. 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 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachemnt: 5M Choke Manifold BOP Diagram Attachment: BOP Schematic

3. Casing

String	Hole Size	Casing Size	Тор	Bottom	Length	Grade	Weight	Connection	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	387	387	J55	54.5	BTC	5.91	31.36	Dry	7.51	Dry	7.04
Intermediate	12.25	9.625	0	1818	1818	J55	36	ВТС	2.75	1.62	Dry	4.32	Dry	3.81
Production	8.75	5.5	0	8148	8148	P110RY	20	Bushmaster SP	2.37	2.47	Dry	2.36	Dry	2.36
Production	8.5	5.5	8148	18876	10728	P110RY	20	Bushmaster SP	2.37	2.47	Dry	2.36	Dry	2.36
9						BLM Min Safety Factor			1.125	1		1.6		1.6

Non API casing spec sheets and casing design assumptions attached.

4. Cement

String	Lead/Tail	Top MD	Bottom MD	Quanity (sx)	Yield	Density	Cu Ft	Excess %	Cement Type	Additives
Surface	Lead	0	300	230	1.88	12.9	420	100%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Surface	Tail	300	387	80	1.34				Class C	Accelerator
Intermediate	Lead	785	1450	180	1.88	12.9	320	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate	Tail	1450	1818	140	1.34	14.8	180	50%	Class C	Retarder
Stage Tool Depth		785								
Intermediate 2nd Stage	Lead	0	285	60	1.88	12.9	100	50%	Class C	EconoCem-HLC + 5% Salt + 5% Kol-Seal
Intermediate 2nd Stage	Tail	285	785	160	1.33	14.8	200	25%	Class C	Salt
Production	Lead	0	7800	1080	2.41	11.5	2590	40%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder
Production	Tail	7800	18876	1850	1.73	12.5	3190	25%	Class H	POZ, Extender, Fluid Loss, Dispersant, Retarder

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: 8690 Cu Ft

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight	Max Weight
0	387	Spud Mud	8.6	9.5
387	1818	Fresh Water	8.6	10
1818	8148	OBM	9	10.5
8148	18876	OBM	9	10.5

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY

Coring operation description for the well:

N/A

7. Pressure

Anticipated Bottom Hole Pressure	4690	psi
Anticipated Surface Pressure	2797	psi
Anticipated Bottom Hole Temperature	143	°F
Anticipated Abnormal pressure, temp, or geo hazards	No	



NEW MEXICO

(SP) EDDY
WATER BUFFALO
WATER BUFFALO STATE COM 213H

OWB

Plan: PWP0

Standard Planning Report - Geographic

24 June, 2025



Database: Compass_17 Company: **NEW MEXICO** Project: (SP) EDDY Site: WATER BUFFALO

RESOURCES

Well: WATER BUFFALO STATE COM 213H

New Mexico Eastern Zone

Wellbore: **OWB** PWP0 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well WATER BUFFALO STATE COM 213H

KB @ 3217.0usft KB @ 3217.0usft

Grid

Minimum Curvature

Project (SP) EDDY

Map Zone:

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

System Datum:

Mean Sea Level

WATER BUFFALO Site

Northing: 516,263.18 usft Site Position: Latitude: 32° 25' 9.336 N 559,833.96 usft 104° 16' 24.206 W Мар Easting: From: Longitude: 0.0 usft Slot Radius: 13-3/16 "

Position Uncertainty:

Well WATER BUFFALO STATE COM 213H

Well Position +N/-S 0.0 usft Northing: 516,275.96 usft Latitude: 32° 25' 9.462 N +E/-W 0.0 usft Easting: 559,850.64 usft Longitude: 104° 16' 24.012 W Ground Level: Wellhead Elevation: **Position Uncertainty** 0.0 usft usft 3,187.0 usft

Grid Convergence: 0.03°

OWB Wellbore Declination Magnetics **Model Name** Sample Date **Dip Angle** Field Strength (°) (°) (nT) 48.833.34963677 IGRF200510 12/31/2009 8.08 60.30

PWP0 Design **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.0 0.0 0.0 87.03

Plan Survey Tool Program 6/24/2025

Depth From Depth To (usft) **Tool Name** Remarks

Survey (Wellbore) (usft)

1 0.0 18,875.6 PWP0 (OWB) MWD

OWSG Rev2 MWD - Standa

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,335.7	6.71	38.15	1,334.9	15.5	12.1	2.00	2.00	0.00	38.15	
7,759.9	6.71	38.15	7,715.1	606.1	476.1	0.00	0.00	0.00	0.00	
8,095.6	0.00	0.00	8,050.0	621.5	488.3	2.00	-2.00	0.00	180.00	
8,148.1	0.00	0.00	8,102.5	621.5	488.3	0.00	0.00	0.00	0.00	
8,898.1	90.00	90.30	8,580.0	619.1	965.7	12.00	12.00	12.04	90.30	
18,875.6	90.00	90.30	8,580.0	567.4	10,943.1	0.00	0.00	0.00	0.00 L	TP/BHL WB 213H



RESOURCES

Database: Compass_17 Company: **NEW MEXICO** Project: (SP) EDDY WATER BUFFALO Site:

Well: WATER BUFFALO STATE COM 213H

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

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

Grid

Well WATER BUFFALO STATE COM 213H

KB @ 3217.0usft KB @ 3217.0usft

resign.	FVVF								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
100.0	0.00	0.00	100.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
200.0	0.00	0.00	200.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
300.0	0.00	0.00	300.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
400.0	0.00	0.00	400.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
500.0	0.00	0.00	500.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
600.0	0.00	0.00	600.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
700.0	0.00	0.00	700.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
800.0	0.00	0.00	800.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
900.0	0.00	0.00	900.0	0.0	0.0	516,275.96	559,850.64	32° 25' 9.462 N	104° 16' 24.012 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	516,275.96	559,850.64	32° 25′ 9.462 N	104° 16' 24.012 W
Start Buil	ld 2.00								
1,100.0	2.00	38.15	1,100.0	1.4	1.1	516,277.33	559,851.72	32° 25' 9.476 N	104° 16' 23.999 W
1,200.0	4.00	38.15	1,199.8	5.5	4.3	516,281.45	559,854.95	32° 25' 9.517 N	104° 16' 23.961 W
1,300.0	6.00	38.15	1,299.5	12.3	9.7	516,288.30	559,860.34	32° 25' 9.584 N	104° 16' 23.899 W
1,335.7	6.71	38.15	1,334.9	15.5	12.1	516,291.41	559,862.78	32° 25' 9.615 N	104° 16' 23.870 W
Start 642	4.2 hold at 13	35.7 MD							
1,400.0	6.71	38.15	1,398.8	21.4	16.8	516,297.32	559,867.42	32° 25′ 9.674 N	104° 16' 23.816 W
1,500.0	6.71	38.15	1,498.1	30.6	24.0	516,306.52	559,874.65	32° 25′ 9.765 N	104° 16' 23.731 W
1,600.0	6.71	38.15	1,597.4	39.7	31.2	516,315.71	559,881.87	32° 25' 9.856 N	104° 16' 23.647 W
1,700.0	6.71	38.15	1,696.7	48.9	38.4	516,324.91	559,889.09	32° 25′ 9.947 N	104° 16' 23.563 W
1,800.0	6.71	38.15	1,796.0	58.1	45.7	516,334.10	559,896.31	32° 25′ 10.037 N	104° 16' 23.479 W
1,900.0	6.71	38.15	1,895.4	67.3	52.9	516,343.29	559,903.54	32° 25′ 10.128 N	104° 16' 23.394 W
2,000.0	6.71	38.15	1,994.7	76.5	60.1	516,352.49	559,910.76	32° 25′ 10.219 N	104° 16' 23.310 W
2,100.0	6.71	38.15	2,094.0	85.7	67.3	516,361.68	559,917.98	32° 25′ 10.310 N	104° 16' 23.226 W
2,200.0	6.71	38.15	2,193.3	94.9	74.6	516,370.88	559,925.20	32° 25′ 10.401 N	104° 16' 23.141 W
2,300.0	6.71	38.15	2,292.6	104.1	81.8	516,380.07	559,932.43	32° 25′ 10.492 N	104° 16' 23.057 W
2,400.0	6.71	38.15	2,391.9	113.3	89.0	516,389.26	559,939.65	32° 25′ 10.583 N	104° 16' 22.973 W
2,500.0	6.71	38.15	2,491.2	122.5	96.2	516,398.46	559,946.87	32° 25′ 10.674 N	104° 16' 22.888 W
2,600.0	6.71	38.15	2,590.6	131.7	103.5	516,407.65	559,954.09	32° 25′ 10.765 N	104° 16' 22.804 W
2,700.0	6.71	38.15	2,689.9	140.9	110.7	516,416.85	559,961.32	32° 25' 10.856 N	104° 16' 22.720 W
2,800.0	6.71	38.15	2,789.2	150.1	117.9	516,426.04	559,968.54	32° 25′ 10.947 N	104° 16' 22.635 W
2,900.0	6.71	38.15	2,888.5	159.3	125.1	516,435.24	559,975.76	32° 25' 11.038 N	104° 16' 22.551 W
3,000.0	6.71	38.15	2,987.8	168.5	132.3	516,444.43	559,982.99	32° 25' 11.129 N	104° 16' 22.467 W
3,100.0	6.71	38.15	3,087.1	177.7	139.6	516,453.62	559,990.21	32° 25' 11.220 N	104° 16' 22.382 W
3,200.0	6.71	38.15	3,186.4	186.9	146.8	516,462.82	559,997.43	32° 25' 11.311 N	104° 16' 22.298 W
3,300.0	6.71	38.15	3,285.8	196.1	154.0	516,472.01	560,004.65	32° 25' 11.402 N	104° 16' 22.214 W
3,400.0	6.71	38.15	3,385.1	205.2	161.2	516,481.21	560,011.88	32° 25' 11.493 N 32° 25' 11.584 N	104° 16' 22.129 W 104° 16' 22.045 W
3,500.0	6.71	38.15	3,484.4	214.4	168.5	516,490.40	560,019.10		
3,600.0 3,700.0	6.71 6.71	38.15	3,583.7	223.6 232.8	175.7	516,499.59	560,026.32	32° 25' 11.674 N	104° 16' 21.961 W 104° 16' 21.876 W
3,700.0	6.71	38.15 38.15	3,683.0 3,782.3	232.0	182.9 190.1	516,508.79	560,033.54 560,040.77	32° 25' 11.765 N 32° 25' 11.856 N	104° 16' 21.792 W
3,900.0	6.71	38.15	3,881.6	251.2	190.1	516,517.98 516,527.18	560,047.99	32° 25' 11.947 N	104° 16' 21.792 W
4,000.0	6.71	38.15	3,981.0	260.4	204.6	516,536.37	560,055.21	32° 25' 12.038 N	104° 16' 21.708 W
4,000.0	6.71	38.15	4,080.3	269.6	211.8	516,536.57	560,062.43	32° 25' 12.129 N	104° 16′ 21.539 W
4,200.0	6.71	38.15	4,000.3	278.8	211.0	516,554.76	560,069.66	32° 25' 12.220 N	104° 16' 21.455 W
4,300.0	6.71	38.15	4,179.0	288.0	226.2	516,563.95	560,076.88	32° 25' 12.311 N	104° 16' 21.370 W
4,400.0	6.71	38.15	4,378.2	297.2	233.5	516,573.15	560,084.10	32° 25' 12.402 N	104° 16' 21.286 W
4,500.0	6.71	38.15	4,477.5	306.4	240.7	516,582.34	560,091.33	32° 25' 12.493 N	104° 16' 21.202 W
4,600.0	6.71	38.15	4,576.8	315.6	247.9	516,591.54	560,098.55	32° 25' 12.584 N	104° 16' 21.117 W
4,700.0	6.71	38.15	4,676.2	324.8	255.1	516,600.73	560,105.77	32° 25' 12.675 N	104° 16' 21.033 W
4,800.0	6.71	38.15	4,775.5	334.0	262.4	516,609.92	560,112.99	32° 25' 12.766 N	104° 16' 20.949 W
4,900.0	6.71	38.15	4,874.8	343.2	269.6	516,619.12	560,120.22	32° 25' 12.857 N	104° 16' 20.864 W
5,000.0	6.71	38.15	4,974.1	352.4	276.8	516,628.31	560,127.44	32° 25' 12.948 N	104° 16' 20.780 W



RESOURCES

 Database:
 Compass_17

 Company:
 NEW MEXICO

 Project:
 (SP) EDDY

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 WATER BUFFALO

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Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

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North Reference:
Survey Calculation Method:

Well WATER BUFFALO STATE COM 213H

KB @ 3217.0usft KB @ 3217.0usft

Grid

Design:	PWP	U							
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.0	6.71	38.15	5,073.4	361.5	284.0	516,637.51	560,134.66	32° 25' 13.039 N	104° 16' 20.696 W
5,200.0	6.71	38.15	5,172.7	370.7	291.2	516,646.70	560,141.88	32° 25′ 13.130 N	104° 16' 20.611 W
5,300.0	6.71	38.15	5,272.0	379.9	298.5	516,655.90	560,149.11	32° 25′ 13.220 N	104° 16' 20.527 W
5,400.0	6.71	38.15	5,371.4	389.1	305.7	516,665.09	560,156.33	32° 25′ 13.311 N	104° 16' 20.443 W
5,500.0	6.71	38.15	5,470.7	398.3	312.9	516,674.28	560,163.55	32° 25′ 13.402 N	104° 16' 20.358 W
5,600.0	6.71	38.15	5,570.0	407.5	320.1	516,683.48	560,170.77	32° 25′ 13.493 N	104° 16' 20.274 W
5,700.0	6.71	38.15	5,669.3	416.7	327.4	516,692.67	560,178.00	32° 25′ 13.584 N	104° 16' 20.190 W
5,800.0	6.71	38.15	5,768.6	425.9	334.6	516,701.87	560,185.22	32° 25′ 13.675 N	104° 16' 20.105 W
5,900.0	6.71	38.15	5,867.9	435.1	341.8	516,711.06	560,192.44	32° 25′ 13.766 N	104° 16' 20.021 W
6,000.0	6.71	38.15	5,967.2	444.3	349.0	516,720.25	560,199.66	32° 25' 13.857 N	104° 16' 19.937 W
6,100.0	6.71	38.15	6,066.6	453.5	356.2	516,729.45	560,206.89	32° 25' 13.948 N	104° 16' 19.852 W
6,200.0	6.71	38.15	6,165.9	462.7	363.5	516,738.64	560,214.11	32° 25' 14.039 N	104° 16' 19.768 W
6,300.0	6.71	38.15	6,265.2	471.9	370.7	516,747.84	560,221.33	32° 25' 14.130 N	104° 16' 19.684 W
6,400.0	6.71	38.15	6,364.5	481.1	377.9	516,757.03	560,228.56	32° 25' 14.221 N	104° 16' 19.600 W
6,500.0	6.71	38.15	6,463.8	490.3	385.1	516,766.23	560,235.78	32° 25' 14.312 N	104° 16' 19.515 W
6,600.0	6.71	38.15	6,563.1	499.5	392.4	516,775.42	560,243.00	32° 25' 14.403 N	104° 16' 19.431 W
6,700.0	6.71	38.15	6,662.4	508.7	399.6	516,784.61	560,250.22	32° 25' 14.494 N	104° 16' 19.347 W
6,800.0 6,900.0	6.71 6.71	38.15	6,761.8	517.8 527.0	406.8 414.0	516,793.81	560,257.45	32° 25' 14.585 N	104° 16' 19.262 W
		38.15	6,861.1	527.0 536.2	414.0 421.2	516,803.00	560,264.67	32° 25' 14.676 N	104° 16' 19.178 W 104° 16' 19.094 W
7,000.0 7,100.0	6.71 6.71	38.15 38.15	6,960.4 7,059.7	536.2 545.4	421.2 428.5	516,812.20 516,821.39	560,271.89 560,279.11	32° 25' 14.766 N 32° 25' 14.857 N	104° 16′ 19.094 W
7,100.0	6.71	38.15	7,059.7	554.6	435.7	516,830.58	560,286.34	32° 25' 14.948 N	104° 16' 18.925 W
7,300.0	6.71	38.15	7,159.0	563.8	442.9	516,839.78	560,293.56	32° 25' 15.039 N	104° 16' 18.841 W
7,400.0	6.71	38.15	7,250.5	573.0	450.1	516,848.97	560,300.78	32° 25' 15.130 N	104° 16' 18.756 W
7,500.0	6.71	38.15	7,457.0	582.2	457.4	516,858.17	560,308.00	32° 25' 15.221 N	104° 16' 18.672 W
7,600.0	6.71	38.15	7,556.3	591.4	464.6	516,867.36	560,315.23	32° 25' 15.312 N	104° 16' 18.588 W
7,700.0	6.71	38.15	7,655.6	600.6	471.8	516,876.56	560,322.45	32° 25' 15.403 N	104° 16' 18.503 W
7,759.9	6.71	38.15	7,715.1	606.1	476.1	516,882.06	560,326.77	32° 25' 15.458 N	104° 16' 18.453 W
Start Dro			.,			2.5,55=.55	,		
7,800.0	5.91	38.15	7,754.9	609.6	478.9	516,885.53	560,329.50	32° 25' 15.492 N	104° 16' 18.421 W
7,900.0	3.91	38.15	7,854.6	616.3	484.1	516,892.26	560,334.79	32° 25' 15.558 N	104° 16' 18.359 W
8,000.0	1.91	38.15	7,954.4	620.3	487.3	516,896.26	560,337.93	32° 25' 15.598 N	104° 16' 18.323 W
8,095.6	0.00	0.00	8,050.0	621.5	488.3	516,897.51	560,338.91	32° 25' 15.610 N	104° 16' 18.311 W
	5 hold at 809		-,			,	,		
8,100.0	0.00	0.00	8,054.4	621.5	488.3	516,897.51	560,338.91	32° 25' 15.610 N	104° 16' 18.311 W
8,148.1	0.00	0.00	8,102.5	621.5	488.3	516,897.51	560,338.91	32° 25' 15.610 N	104° 16' 18.311 W
	S 12.00 TFO 9					,	,		
8,150.0	0.23	90.30	8,104.4	621.5	488.3	516,897.51	560,338.92	32° 25' 15.610 N	104° 16' 18.311 W
8,175.0		90.30	8,129.4	621.5	489.0	516,897.51	560,339.67	32° 25' 15.610 N	104° 16' 18.302 W
8,200.0			8,154.3	621.5	491.1	516,897.50	560,341.73	32° 25' 15.610 N	104° 16' 18.278 W
8,225.0			8,179.1	621.5	494.4	516,897.48	560,345.09	32° 25' 15.610 N	104° 16' 18.239 W
8,250.0	12.23	90.30	8,203.6	621.5	499.1	516,897.46	560,349.75	32° 25' 15.610 N	104° 16' 18.185 W
8,275.0	15.23	90.30	8,227.9	621.5	505.0	516,897.42	560,355.68	32° 25' 15.609 N	104° 16' 18.115 W
8,300.0	18.23	90.30	8,251.9	621.4	512.2	516,897.39	560,362.87	32° 25′ 15.609 N	104° 16' 18.031 W
8,325.0	21.23	90.30	8,275.4	621.4	520.7	516,897.34	560,371.31	32° 25′ 15.609 N	104° 16' 17.933 W
8,350.0	24.23	90.30	8,298.4	621.3	530.3	516,897.29	560,380.97	32° 25′ 15.608 N	104° 16' 17.820 W
8,375.0	27.23	90.30	8,321.0	621.3	541.2	516,897.24	560,391.82	32° 25′ 15.607 N	104° 16' 17.694 W
8,400.0	30.23	90.30	8,342.9	621.2	553.2	516,897.18	560,403.84	32° 25′ 15.607 N	104° 16' 17.554 W
8,425.0	33.23	90.30	8,364.1	621.1	566.3	516,897.11	560,416.98	32° 25′ 15.606 N	104° 16' 17.400 W
8,450.0	36.23	90.30	8,384.7	621.1	580.6	516,897.03	560,431.22	32° 25′ 15.605 N	104° 16' 17.234 W
8,475.0	39.23	90.30	8,404.5	621.0	595.9	516,896.95	560,446.52	32° 25′ 15.604 N	104° 16' 17.056 W
8,500.0	42.23	90.30	8,423.4	620.9	612.2	516,896.87	560,462.83	32° 25′ 15.603 N	104° 16' 16.865 W
8,525.0	45.23	90.30	8,441.5	620.8	629.5	516,896.78	560,480.11	32° 25' 15.602 N	104° 16' 16.664 W
FTP WB	213H								



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KB @ 3217 Ousft

KB @ 3217.0usft KB @ 3217.0usft

Well WATER BUFFALO STATE COM 213H

Grid

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,550.0	48.23	90.30	8,458.6	620.7	647.7	516,896.69	560,498.31	32° 25′ 15.601 N	104° 16' 16.451 W
8,575.0	51.23	90.30	8,474.8	620.6	666.7	516,896.59	560,517.38	32° 25′ 15.600 N	104° 16' 16.229 W
8,600.0	54.23	90.30	8,489.9	620.5	686.6	516,896.48	560,537.27	32° 25′ 15.599 N	104° 16' 15.997 W
8,625.0	57.23	90.30	8,504.0	620.4	707.3	516,896.38	560,557.93	32° 25′ 15.598 N	104° 16' 15.756 W
8,650.0	60.23	90.30	8,516.9	620.3	728.7	516,896.27	560,579.29	32° 25' 15.597 N	104° 16' 15.507 W
8,675.0	63.23	90.30	8,528.8	620.2	750.7	516,896.15	560,601.31	32° 25' 15.595 N	104° 16' 15.250 W
8,700.0	66.23	90.30	8,539.5	620.1	773.3	516,896.03	560,623.91	32° 25' 15.594 N	104° 16' 14.986 W
8,725.0	69.23	90.30	8,548.9	620.0	796.4	516,895.91	560,647.04	32° 25' 15.593 N	104° 16' 14.716 W
8,750.0	72.23	90.30	8,557.2	619.8	820.0	516,895.79	560,670.64	32° 25' 15.591 N	104° 16' 14.441 W
8,775.0	75.23	90.30	8,564.2	619.7	844.0	516,895.67	560,694.64	32° 25' 15.590 N	104° 16' 14.161 W
8,800.0	78.23	90.30	8,569.9	619.6	868.3	516,895.54	560,718.97	32° 25' 15.589 N	104° 16' 13.877 W
8,825.0	81.23	90.30	8,574.4	619.5	892.9	516,895.41	560,743.56	32° 25' 15.587 N	104° 16' 13.590 W
8,850.0	84.23	90.30	8,577.5	619.3	917.7	516,895.29	560,768.36	32° 25' 15.586 N	104° 16' 13.301 W
8,875.0	87.23	90.30	8,579.4	619.2	942.6	516,895.16	560,793.28	32° 25' 15.584 N	104° 16' 13.010 W
8,898.1	90.00	90.30	8,580.0	619.1	965.7	516,895.04	560,816.37	32° 25' 15.583 N	104° 16' 12.741 W
	77.5 hold at 88		0.500.0	C40.4	007.0	E40 00E 02	500 040 00	20° 05' 45 502 N	4049 401 40 740 14
8,900.0	90.00	90.30	8,580.0	619.1	967.6	516,895.03	560,818.28	32° 25' 15.583 N	104° 16' 12.718 W
9,000.0	90.00	90.30	8,580.0	618.5	1,067.6	516,894.51	560,918.27	32° 25' 15.577 N	104° 16' 11.552 W
9,100.0	90.00	90.30	8,580.0	618.0	1,167.6	516,893.99	561,018.27	32° 25' 15.572 N	104° 16' 10.385 W
9,200.0	90.00	90.30	8,580.0	617.5	1,267.6	516,893.47	561,118.27	32° 25' 15.566 N	104° 16' 9.218 W
9,300.0	90.00	90.30	8,580.0	617.0	1,367.6	516,892.95	561,218.27	32° 25' 15.560 N	104° 16' 8.052 W
9,400.0	90.00	90.30	8,580.0	616.5	1,467.6	516,892.44	561,318.27	32° 25' 15.554 N	104° 16' 6.885 W
9,500.0	90.00	90.30	8,580.0	616.0	1,567.6	516,891.92	561,418.27	32° 25' 15.549 N	104° 16' 5.718 W
9,600.0	90.00	90.30	8,580.0	615.4	1,667.6	516,891.40	561,518.27	32° 25' 15.543 N	104° 16' 4.552 W
9,700.0	90.00	90.30	8,580.0	614.9	1,767.6	516,890.88	561,618.26	32° 25' 15.537 N	104° 16' 3.385 W
9,800.0 9,900.0	90.00 90.00	90.30 90.30	8,580.0	614.4 613.9	1,867.6 1,967.6	516,890.36 516,889.84	561,718.26	32° 25' 15.531 N 32° 25' 15.526 N	104° 16' 2.218 W 104° 16' 1.052 W
10,000.0	90.00	90.30	8,580.0 8,580.0	613.4	2,067.6	*	561,818.26	32° 25' 15.520 N	104° 15' 59.885 W
10,100.0	90.00	90.30	8,580.0	612.8	2,167.6	516,889.33 516,888.81	561,918.26 562,018.26	32° 25' 15.514 N	104° 15' 58.718 W
10,100.0	90.00	90.30	8,580.0	612.3	2,167.6	516,888.29	562,118.26	32° 25' 15.508 N	104° 15' 57.552 W
10,300.0	90.00	90.30	8,580.0	611.8	2,367.6	516,887.77	562,218.26	32° 25' 15.503 N	104° 15' 56.385 W
10,400.0	90.00	90.30	8,580.0	611.3	2,467.6	516,887.25	562,318.25	32° 25' 15.497 N	104° 15' 55.218 W
10,500.0	90.00	90.30	8,580.0	610.8	2,567.6	516,886.73	562,418.25	32° 25' 15.491 N	104° 15' 54.052 W
10,600.0	90.00	90.30	8,580.0	610.3	2,667.6	516,886.22	562,518.25	32° 25' 15.485 N	104° 15' 52.885 W
10,700.0	90.00	90.30	8,580.0	609.7	2,767.6	516,885.70	562,618.25	32° 25' 15.480 N	104° 15' 51.718 W
10,800.0	90.00	90.30	8,580.0	609.2	2,867.6	516,885.18	562,718.25	32° 25' 15.474 N	104° 15' 50.551 W
10,900.0	90.00	90.30	8,580.0	608.7	2,967.6	516,884.66	562,818.25	32° 25' 15.468 N	104° 15' 49.385 W
11,000.0	90.00	90.30	8,580.0	608.2	3,067.6	516,884.14	562,918.25	32° 25' 15.462 N	104° 15' 48.218 W
11,100.0	90.00	90.30	8.580.0	607.7	3,167.6	516,883.62	563.018.25	32° 25' 15.457 N	104° 15' 47.051 W
11,200.0	90.00	90.30	8,580.0	607.1	3,267.6	516,883.11	563,118.24	32° 25' 15.451 N	104° 15' 45.885 W
11,300.0	90.00	90.30	8,580.0	606.6	3,367.6	516,882.59	563,218.24	32° 25' 15.445 N	104° 15' 44.718 W
11,400.0	90.00	90.30	8,580.0	606.1	3,467.6	516,882.07	563,318.24	32° 25' 15.439 N	104° 15' 43.551 W
11,500.0	90.00	90.30	8,580.0	605.6	3,567.6	516,881.55	563,418.24	32° 25' 15.433 N	104° 15' 42.385 W
11,600.0	90.00	90.30	8,580.0	605.1	3,667.6	516,881.03	563,518.24	32° 25' 15.428 N	104° 15' 41.218 W
11,700.0	90.00	90.30	8,580.0	604.6	3,767.6	516,880.51	563,618.24	32° 25' 15.422 N	104° 15' 40.051 W
11,800.0	90.00	90.30	8,580.0	604.0	3,867.6	516,880.00	563,718.24	32° 25' 15.416 N	104° 15' 38.885 W
11,900.0	90.00	90.30	8,580.0	603.5	3,967.6	516,879.48	563,818.23	32° 25′ 15.410 N	104° 15' 37.718 W
12,000.0	90.00	90.30	8,580.0	603.0	4,067.6	516,878.96	563,918.23	32° 25' 15.404 N	104° 15' 36.551 W
12,100.0	90.00	90.30	8,580.0	602.5	4,167.6	516,878.44	564,018.23	32° 25′ 15.399 N	104° 15' 35.385 W
12,200.0	90.00	90.30	8,580.0	602.0	4,267.6	516,877.92	564,118.23	32° 25′ 15.393 N	104° 15' 34.218 W
12,300.0	90.00	90.30	8,580.0	601.4	4,367.6	516,877.40	564,218.23	32° 25' 15.387 N	104° 15' 33.051 W
12,400.0	90.00	90.30	8,580.0	600.9	4,467.6	516,876.89	564,318.23	32° 25' 15.381 N	104° 15' 31.885 W
12,500.0	90.00	90.30	8,580.0	600.4	4,567.6	516,876.37	564,418.23	32° 25' 15.375 N	104° 15' 30.718 W
12,600.0	90.00	90.30	8,580.0	599.9	4,667.6	516,875.85	564,518.23	32° 25′ 15.370 N	104° 15' 29.551 W
			·						



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KB @ 3217.0usft KB @ 3217.0usft

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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,700.0	90.00	90.30	8,580.0	599.4	4,767.6	516,875.33	564,618.22	32° 25′ 15.364 N	104° 15' 28.385 W
12,800.0	90.00	90.30	8,580.0	598.9	4,867.6	516,874.81	564,718.22	32° 25′ 15.358 N	104° 15' 27.218 W
12,900.0	90.00	90.30	8,580.0	598.3	4,967.6	516,874.29	564,818.22	32° 25′ 15.352 N	104° 15' 26.051 W
13,000.0	90.00	90.30	8,580.0	597.8	5,067.6	516,873.78	564,918.22	32° 25' 15.346 N	104° 15' 24.885 W
13,100.0	90.00	90.30	8,580.0	597.3	5,167.6	516,873.26	565,018.22	32° 25' 15.340 N	104° 15' 23.718 W
13,200.0	90.00	90.30	8,580.0	596.8	5,267.6	516,872.74	565,118.22	32° 25' 15.335 N	104° 15' 22.551 W
13,300.0	90.00	90.30	8,580.0	596.3	5,367.6	516,872.22	565,218.22	32° 25' 15.329 N	104° 15' 21.385 W
13,400.0	90.00	90.30 90.30	8,580.0 8,580.0	595.7 595.2	5,467.6 5,567.6	516,871.70	565,318.21	32° 25' 15.323 N	104° 15' 20.218 W 104° 15' 19.051 W
13,500.0 13,600.0	90.00 90.00	90.30	8,580.0	595.2 594.7	5,667.6	516,871.18 516,870.67	565,418.21 565,518.21	32° 25' 15.317 N 32° 25' 15.311 N	104° 15' 17.885 W
13,700.0	90.00	90.30	8,580.0	594.7 594.2	5,767.6	516,870.15	565,618.21	32° 25' 15.305 N	104° 15' 16.718 W
13,800.0	90.00	90.30	8,580.0	593.7	5,867.6	516,869.63	565,718.21	32° 25' 15.299 N	104° 15' 15.551 W
13,900.0	90.00	90.30	8,580.0	593.1	5,967.6	516,869.11	565,818.21	32° 25' 15.294 N	104° 15' 14.385 W
14,000.0	90.00	90.30	8,580.0	592.6	6,067.6	516,868.59	565,918.21	32° 25' 15.288 N	104° 15' 13.218 W
14,100.0	90.00	90.30	8,580.0	592.1	6,167.6	516,868.07	566,018.21	32° 25' 15.282 N	104° 15' 12.051 W
14,200.0	90.00	90.30	8,580.0	591.6	6,267.6	516,867.56	566,118.20	32° 25' 15.276 N	104° 15' 10.885 W
14,300.0	90.00	90.30	8,580.0	591.1	6,367.6	516,867.04	566,218.20	32° 25' 15.270 N	104° 15' 9.718 W
14,400.0	90.00	90.30	8,580.0	590.6	6,467.6	516,866.52	566,318.20	32° 25' 15.264 N	104° 15' 8.551 W
14,500.0	90.00	90.30	8,580.0	590.0	6,567.6	516,866.00	566,418.20	32° 25′ 15.258 N	104° 15' 7.384 W
14,600.0	90.00	90.30	8,580.0	589.5	6,667.6	516,865.48	566,518.20	32° 25′ 15.252 N	104° 15' 6.218 W
14,700.0	90.00	90.30	8,580.0	589.0	6,767.6	516,864.96	566,618.20	32° 25' 15.247 N	104° 15' 5.051 W
14,800.0	90.00	90.30	8,580.0	588.5	6,867.6	516,864.45	566,718.20	32° 25' 15.241 N	104° 15' 3.884 W
14,900.0	90.00	90.30	8,580.0	588.0	6,967.6	516,863.93	566,818.19	32° 25′ 15.235 N	104° 15' 2.718 W
15,000.0	90.00	90.30	8,580.0	587.4	7,067.6	516,863.41	566,918.19	32° 25′ 15.229 N	104° 15' 1.551 W
15,100.0	90.00	90.30	8,580.0	586.9	7,167.5	516,862.89	567,018.19	32° 25′ 15.223 N	104° 15' 0.384 W
15,200.0	90.00	90.30	8,580.0	586.4	7,267.5	516,862.37	567,118.19	32° 25′ 15.217 N	104° 14' 59.218 W
15,300.0	90.00	90.30	8,580.0	585.9	7,367.5	516,861.85	567,218.19	32° 25′ 15.211 N	104° 14' 58.051 W
15,400.0	90.00	90.30	8,580.0	585.4	7,467.5	516,861.34	567,318.19	32° 25' 15.205 N	104° 14' 56.884 W
15,500.0	90.00	90.30	8,580.0	584.9	7,567.5	516,860.82	567,418.19	32° 25' 15.199 N	104° 14' 55.718 W
15,600.0	90.00	90.30	8,580.0	584.3	7,667.5	516,860.30	567,518.19	32° 25' 15.193 N	104° 14' 54.551 W
15,700.0	90.00	90.30	8,580.0	583.8	7,767.5	516,859.78	567,618.18	32° 25' 15.188 N	104° 14' 53.384 W
15,800.0	90.00	90.30 90.30	8,580.0 8,580.0	583.3 582.8	7,867.5 7,967.5	516,859.26 516,858.74	567,718.18	32° 25' 15.182 N	104° 14' 52.218 W
15,900.0	90.00 90.00	90.30			7,967.5 8,067.5	516,858.74	567,818.18	32° 25' 15.176 N	104° 14' 51.051 W
16,000.0 16,100.0	90.00	90.30	8,580.0 8,580.0	582.3 581.7	8,167.5	516,857.71	567,918.18 568,018.18	32° 25' 15.170 N 32° 25' 15.164 N	104° 14' 49.884 W 104° 14' 48.718 W
16,200.0	90.00	90.30	8,580.0	581.2	8,267.5	516,857.19	568,118.18	32° 25' 15.158 N	104° 14' 47.551 W
16,300.0	90.00	90.30	8,580.0	580.7	8,367.5	516,856.67	568,218.18	32° 25' 15.152 N	104° 14' 46.384 W
16,400.0	90.00	90.30	8,580.0	580.7	8,467.5	516,856.15	568,318.17	32° 25' 15.146 N	104° 14' 45.218 W
16,500.0	90.00	90.30	8,580.0	579.7	8,567.5	516,855.63	568,418.17	32° 25' 15.140 N	104° 14' 44.051 W
16,600.0	90.00	90.30	8,580.0	579.2	8,667.5	516,855.12	568,518.17	32° 25' 15.134 N	104° 14' 42.884 W
16,700.0	90.00	90.30	8,580.0	578.6	8,767.5	516,854.60	568,618.17	32° 25' 15.128 N	104° 14' 41.718 W
16,800.0	90.00	90.30	8,580.0	578.1	8,867.5	516,854.08	568,718.17	32° 25' 15.122 N	104° 14' 40.551 W
16,900.0	90.00	90.30	8,580.0	577.6	8,967.5	516,853.56	568,818.17	32° 25' 15.116 N	104° 14' 39.384 W
17,000.0	90.00	90.30	8,580.0	577.1	9,067.5	516,853.04	568,918.17	32° 25' 15.110 N	104° 14' 38.218 W
17,100.0	90.00	90.30	8,580.0	576.6	9,167.5	516,852.52	569,018.17	32° 25' 15.104 N	104° 14' 37.051 W
17,200.0	90.00	90.30	8,580.0	576.0	9,267.5	516,852.01	569,118.16	32° 25′ 15.098 N	104° 14' 35.884 W
17,300.0	90.00	90.30	8,580.0	575.5	9,367.5	516,851.49	569,218.16	32° 25′ 15.092 N	104° 14' 34.718 W
17,400.0	90.00	90.30	8,580.0	575.0	9,467.5	516,850.97	569,318.16	32° 25′ 15.087 N	104° 14' 33.551 W
17,500.0	90.00	90.30	8,580.0	574.5	9,567.5	516,850.45	569,418.16	32° 25' 15.081 N	104° 14' 32.384 W
17,600.0	90.00	90.30	8,580.0	574.0	9,667.5	516,849.93	569,518.16	32° 25′ 15.075 N	104° 14' 31.218 W
17,700.0	90.00	90.30	8,580.0	573.5	9,767.5	516,849.41	569,618.16	32° 25′ 15.069 N	104° 14' 30.051 W
17,800.0	90.00	90.30	8,580.0	572.9	9,867.5	516,848.90	569,718.16	32° 25′ 15.063 N	104° 14' 28.884 W
17,900.0	90.00	90.30	8,580.0	572.4	9,967.5	516,848.38	569,818.15	32° 25' 15.057 N	104° 14' 27.718 W
18,000.0	90.00	90.30	8,580.0	571.9	10,067.5	516,847.86	569,918.15	32° 25' 15.051 N	104° 14' 26.551 W
18,100.0	90.00	90.30	8,580.0	571.4	10,167.5	516,847.34	570,018.15	32° 25' 15.045 N	104° 14' 25.384 W



Database: Compass_17

Company: NEW MEXICO
Project: (SP) EDDY
Site: WATER BUFFALO

Well: WATER BUFFALO STATE COM 213H

Wellbore: OWB
Design: PWP0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well WATER BUFFALO STATE COM 213H

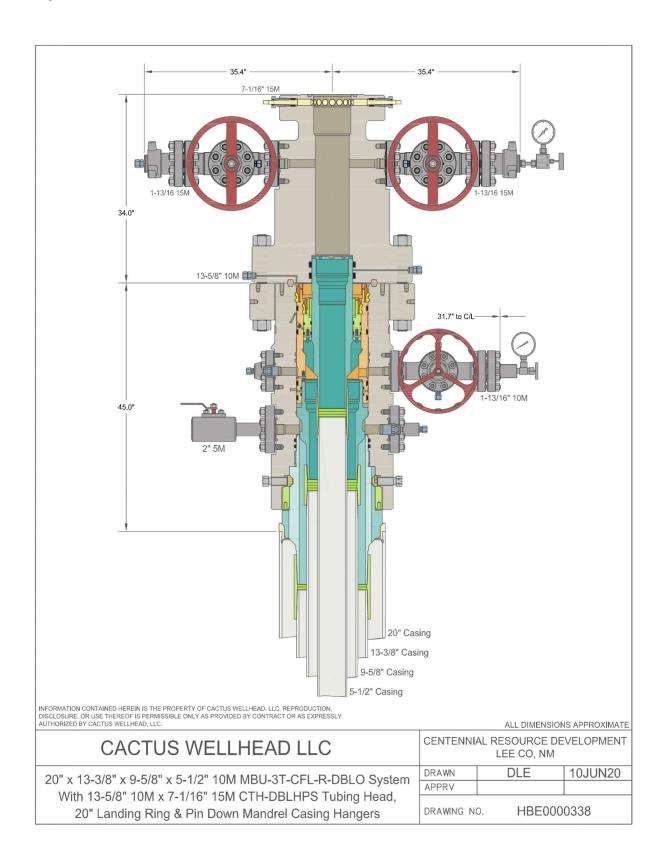
KB @ 3217.0usft KB @ 3217.0usft

Grid

anned Survey Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
18,200.0	90.00	90.30	8,580.0	570.9	10,267.5	516,846.82	570,118.15	32° 25′ 15.039 N	104° 14' 24.218 W
18,300.0	90.00	90.30	8,580.0	570.3	10,367.5	516,846.30	570,218.15	32° 25′ 15.033 N	104° 14' 23.051 W
18,400.0	90.00	90.30	8,580.0	569.8	10,467.5	516,845.79	570,318.15	32° 25' 15.027 N	104° 14' 21.884 W
18,500.0	90.00	90.30	8,580.0	569.3	10,567.5	516,845.27	570,418.15	32° 25' 15.021 N	104° 14' 20.718 W
18,600.0	90.00	90.30	8,580.0	568.8	10,667.5	516,844.75	570,518.15	32° 25' 15.015 N	104° 14' 19.551 W
18,700.0	90.00	90.30	8,580.0	568.3	10,767.5	516,844.23	570,618.14	32° 25' 15.009 N	104° 14' 18.384 W
18,800.0	90.00	90.30	8,580.0	567.8	10,867.5	516,843.71	570,718.14	32° 25' 15.003 N	104° 14' 17.218 W
18,875.6	90.00	90.30	8,580.0	567.4	10,943.1	516,843.32	570,793.74	32° 25′ 14.998 N	104° 14' 16.335 W
TD at 188	875.6 - LTP/BI	HL WB 213H							

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 WB 213H - plan misses target of a Point	0.00 center by 197	0.00 8usft at 8525	8,580.0 5.0usft MD (621.5 8441.5 TVD, 6	488.3 620.8 N, 629.5	516,897.51 i E)	560,338.91	32° 25' 15.610 N	104° 16' 18.311 W
LTP/BHL WB 213H - plan hits target cent - Point	0.00 er	0.00	8,580.0	567.4	10,943.1	516,843.32	570,793.74	32° 25' 14.998 N	104° 14' 16.335 W

Plan Annotations					
N	leasured	Vertical	Local Coord	dinates	
	Depth	Depth	+N/-S	+E/-W	
	(usft)	(usft)	(usft)	(usft)	Comment
	1,000.0	1,000.0	0.0	0.0	Start Build 2.00
	1,335.7	1,334.9	15.5	12.1	Start 6424.2 hold at 1335.7 MD
	7,759.9	7,715.1	606.1	476.1	Start Drop -2.00
	8,095.6	8,050.0	621.5	488.3	Start 52.5 hold at 8095.6 MD
	8,148.1	8,102.5	621.5	488.3	Start DLS 12.00 TFO 90.30
	8,898.1	8,580.0	619.1	965.7	Start 9977.5 hold at 8898.1 MD
	18,875.6	8,580.0	567.4	10,943.1	TD at 18875.6



Permian Resources Multi-Well Pad Batch Drilling Procedure

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

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

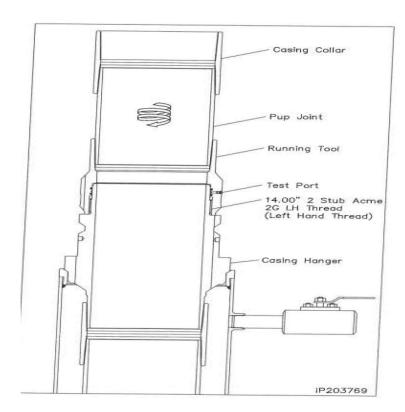


Illustration 1-1

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

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

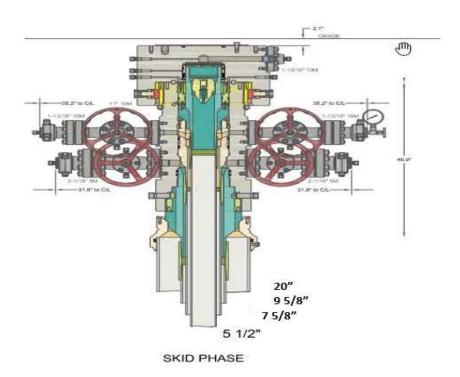


Illustration 2-2

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

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

@ntinental<u>⅓</u>

ContiTech Fluid Technology

ne Corp. # 11535 Brittmoore Park Dr., Hous	ton, TX Packing list / Delivery note
	Document No. 71461553
his to address.	Document Date 28.01.2022
hip-to address:	Customer Number 11697
PAYNE INT'L DRILLING CO	Customer VAT No.
	Supplier Number
	Purchase Order No. 740362040
TX 77547	Purchase Order Date 18.01.2022 Sales Order Number 1388153
	Sales Order Number 1388153 Sales Order Date 18.01.2022
	Sales Order Date 10.01.2022
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OULDER	RAN-No.
	Page 1 of 2
EXW Houston	Weights (Gross / Net)
Ex Works	Total Gross Weight 2,507.000 LB
	Total Net Weight 2,507.000 LB
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THOR STORE & MITTIESSE WITTES	
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10,000	25000240-
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boroscopic inspection of hose liner	00
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of any external damage to hose body and er	10000
r repairs).	1100
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r repairs).	1100
	PAYNE INT'L DRILLING CO G WHSE - B-BAY DRIVE TX 77547 PAYNE INT'L DRILLING CO OULDER

ContiTech Rubber Industrial Kft.
H-6728 Szeged Budapesti út 10.
P. O. Box 152 Szeged H-6701
Phone (62)566-700, Fax (62)566-713
Tax Number: 11087209-2-06
EU Community VAT: HU11087209
Registration No: Cg. 0609-002502
Registry Court: Csongrád Megyei Cégbíróság
Released to Imaging: 8/8/2025 9:59:49 AM

COMMERZBANK ZRT. (HUF)
H-1054 Budapest, Széchenyi rakpart 8.
H-1245 Budapest P.O. Box 1070
Account No.:14220108-26830003
IBAN: HU83 1422 0108 2683 0003 0000 0000
SWIFT: COBA HU HXXXX.

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

Hydrostatic Test Certificate



ContiTech

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

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

Item Part No. Description Qnty Serial Number Work, Press. (psi) Test Press. (psi) (minutes)

20 RECERTIFICATION

3" ID 10K Choke and Kill Hose x 35ft OAL

67094

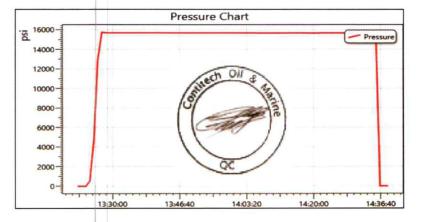
10,000

15,000

60

Record Information				
Start Time	1/27/2022 13:21:21			
End Time	1/27/2022 14:38:28			
Interval	00:01:00			
Number	78			
MaxValue	15849			
MinValue	-3			
AvgValue	14240			
RecordName	67094-sh			
RecordNumber	199			

Gauge I	nformation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



Permian Resources BOP Break Testing Variance Procedure

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

Background

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

Supporting Documentation

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

Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System



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

	Pressure Test—Low	Pressure Test—High Pressure**			
Component to be Pressure Tested	Pressure** psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket		
Annular preventer	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.		
Fixed pipe, variable bore, blind, and BSR preventers [∞]	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 M whichever is lower	ASP for the well program,		
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program			
Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections For surface offshore operations, th	during the evaluation period. The p ssure tested on the largest and sma from one wellhead to another within when the integray of a pressure se- ie ram BOPs shall be pressure test land operations, the ram BOPs shall	ressure shall not decrease below the allest OD drift pipe to be used in well in the 21 days, pressure festing is req at is broken. led with the ram locks engaged and if be pressure tested with the ram locks.	program. uired for pressure-containing an the closing and locking pressur		

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.

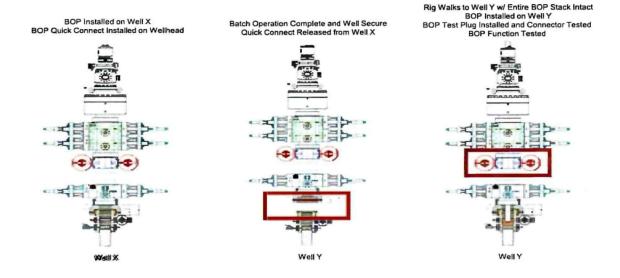
Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

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

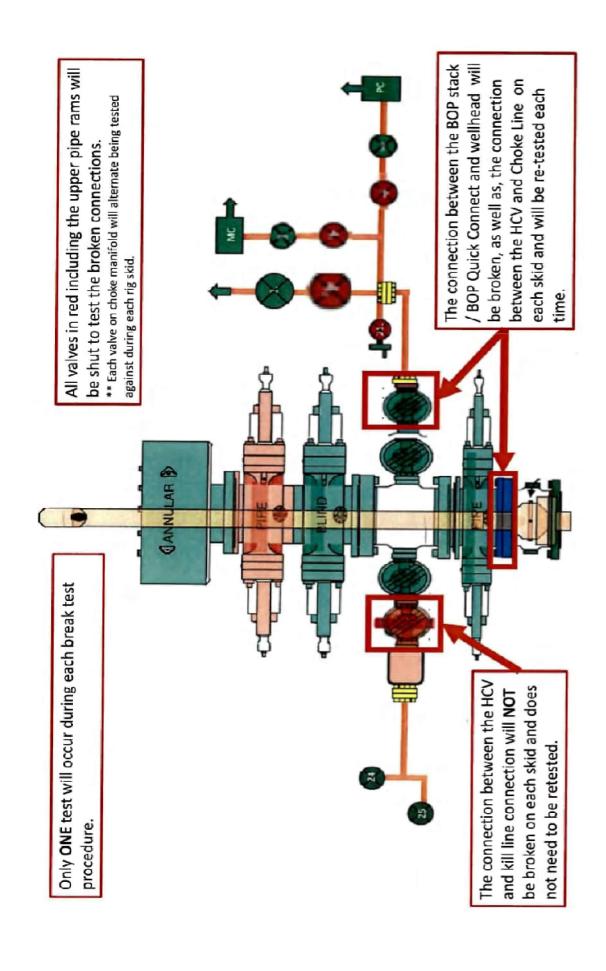
A variance is requested to ONLY test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operations, moving from one wellhead to another within 21 days, pressure testing is required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

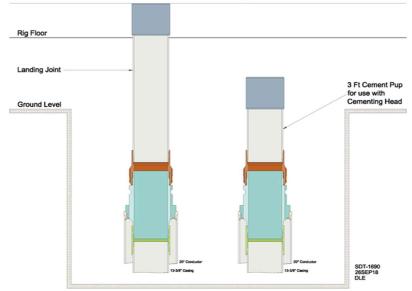


Permian Resources Offline Cementing Procedure Surface & Intermediate Casing

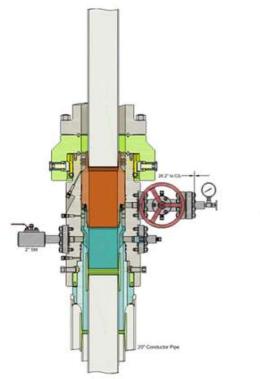
- 1. Drill hole to Total Depth with Rig and perform wellbore cleanup cycles.
- 2. Run and casing to Depth.
- 3. Land casing with mandrel.
- 4. Circulate 1.5 csg capacity.
- 5. Flow test Confirm well is static and floats are holding.
- 6. Set Annular packoff and pressure test. Test to 5k.
- 7. Nipple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

13 3/8" Surface

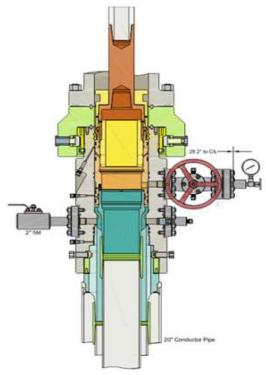
CFL Off-Line Cementing Tool



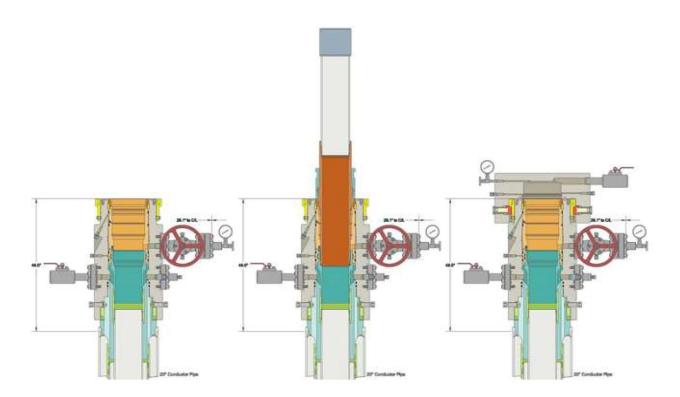
Intermediate



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



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



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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 487490

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC	372165
300 N. Marienfeld St Ste 1000	Action Number:
Midland, TX 79701	487490
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Administrative order required for non-standard location prior to production.	8/8/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	8/8/2025
matthew.gomez	Property code is now 337699.	8/8/2025