Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-57175 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. 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 *Per 19.15.14.9 NMAC, OXY USA Inc. certifies no APPROVED WITH CONDITIONS addition of PFAS chemicals to fluids used in the completion of recompletion of the subject well.

Approval Date: 07/25/2025

(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENW / 960 FNL / 1474 FWL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.149332 / LONG: -103.841837 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 940 FWL / TWSP: 25S / RANGE: 29E / SECTION: 12 / LAT: 32.151685 / LONG: -103.943571 (TVD: 11228 feet, MD: 11644 feet)
PPP: NWNW / 0 FNL / 929 FWL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.137353 / LONG: -103.943545 (TVD: 11228 feet, MD: 16333 feet)
BHL: SWSW / 20 FSL / 940 FWL / TWSP: 25S / RANGE: 29E / SECTION: 13 / LAT: 32.122813 / LONG: -103.94352 (TVD: 11228 feet, MD: 21624 feet)

BLM Point of Contact

Name: TENILLE C MOLINA Title: Land Law Examiner Phone: (575) 234-2224

Email: TCMOLINA@BLM.GOV

vived l	by OCD:	<u>7/29/2025 9:</u>	10:14 AM					1		Page.	
<u>C-102</u>		State of New Mexico Energy, Minerals & Natural Resources Department			Revised July 9, 202						
	t Electronical D Permitting			OIL CONSERVATION DIVISION					☑ Initial Submit	☑ Initial Submittal	
							Submittal Type:	tal	☐ Amended Report		
							-54.	☐ As Drilled			
			•		WELL LOCA	TION INFORMATION			•		
API N 30-01	umber 5- 57175		Pool Code 98220			Pool Name PURF	PLE SA	AGE	; WOLFC	AMP	
Property Code 328295		Property N	Property Name CORRAL GORGE 12-13 FED COM					Well Number 51	Н		
OGRII	O No. 16696		Operator Name OXY USA INC.					Ground Level Elevation 3106.2'			
Surfac	urface Owner: 🗹 State 🗆 Fee 🗅		Tribal ☐ Federal Mineral Owner: ☑ State ☐ Fee ☐ Tribal ☑ H					☑ Federal			
					Sur	face Location					
UL C	Section 12	Township 25S	Range 29E	Lot	Ft. from N/S 960 NORTH	Ft. from E/W 1474 WEST	Latitude (N 32.149)		Longitude (NAD 83) -103.941837°	County EDDY	
					Bottor	n Hole Location					
UL M	Section 13	Township 25S	Range 29E	Lot	Ft. from N/S 20 SOUTH	Ft. from E/W 940 WEST	Latitude (N 32.122	/	Longitude (NAD 83) -103.943520°	County EDDY	
	nted Acres	Infill or Defi	ining Well	1	g Well API 15-48026	Overlapping Spacir	ng Unit (Y/N)	Consoli	dation Code		
Order :	Order Numbers.			Well setbacks are u	nder Common	L Ownershi	p: □Yes □No				
					Kick (Off Point (KOP)			<u>- </u>		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (N	(AD 83)	Longitude (NAD 83)	County	
D	12	25S	29E		50 NORTH	940 WEST	32.151	822°	-103.943572°	EDDY	

						omi (ROI)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	12	25S	29E		50 NORTH	940 WEST	32.151822°	-103.943572°	EDDY
					First Take	Point (FTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
D	12	25S	29E		100 NORTH	940 WEST	32.151685°	-103.943571°	EDDY
			_		Last Take	Point (LTP)			
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD 83)	Longitude (NAD 83)	County
M	13	25S	29E		100 SOUTH	940 WEST	32.123033°	-103.943520°	EDDY

Unitized Area or Area of Uniform Interest Spacing Unit Type \square Horizontal \square Vertical Ground Floor Elevation:

my belief.

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Leslie T. Reeves4/23/2025

Signature

Signature and Seal of Professional Surveyor

SURVEYOR CERTIFICATIONS

23782

August 10, 2023

I hereby certify that the well location shown on this plat was plotted from the field notes of actual

surveys made by me or under my supervision, and that the same is true and correct to the best of

LESLIE REEVES

Printed Name

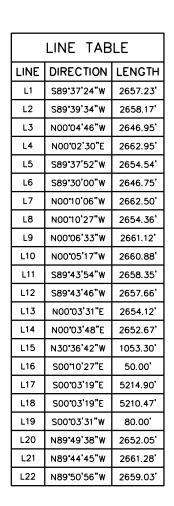
LESLIE_REEVES@OXY.COM

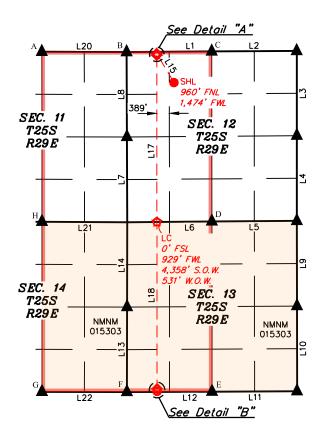
Email Address

Certificate Number Date of Survey

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

Well Number Property Name Drawn By Revised By CORRAL GORGE 12-13 FED COM 51H N.R. 09-07-23 REV. 2 T.I.R. 03-27-25 (UPDATE FORMAT)





= SURFACE HOLE LOCATION

= KICK OFF POINT/FIRST TAKE POINT/LAST TAKE POINT

LEASÉ CROSSING

= BOTTOM HOLE LOCATION

= SECTION CORNER LOCATED

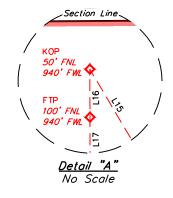
= HORIZONTAL SPACING UNIT

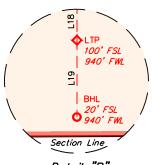
S.O.W. = SOUTH OF WELLW.O.W. = WEST OF WELL

- NOTE:

 Distances referenced on plat to section lines are perpendicular.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Colored areas within section lines represent Federal oil & gas leases.

HSU COORDINATES					
	NAD 27 N.	M. STATE	NAD 83 N.M. STATE		
	PLANE, EA	AST ZONE	PLANE, EAST ZONE		
POINT	NORTHING	EASTING	NORTHING	EASTING	
Α	419165.04'	617183.61'	419223.44'	658368.22'	
В	419168.12'	619835.08'	419226.52'	661019.71'	
С	419196.70'	622491.58'	419255.09'	663676.24'	
D	413886.77'	622518.99'	413945.05'	663703.80'	
E	408570.70'	622546.39'	408628.87'	663731.34'	
F	408547.05'	619889.41'	408605.23'	661074.33'	
G	408542.96'	617230.95'	408601.14'	658415.85'	
Н	413853.29'	617212.33'	413911.59'	658397.08'	





<u>Detail "B"</u> No Scale

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'57.59" (32.149332°)
LONGITUDE = -103°56'30.61" (-103.941837°)
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 32°08'57.15" (32.149208°)
LONGITUDE = -103°56'28.87" (-103.941353°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418282.56' E: 662499.86'
STATE PLANE NAD 27 (N.M. EAST)
N: 418224.19' E: 621315.19'

NAD 83 (FIRST TAKE POINT)
LATITUDE = 32°09'06.07" (32.151685°)
LONGITUDE = -103°56'36.86" (-103.943571°)
NAD 27 (FIRST TAKE POINT)
LATITUDE = 32°09'05.62" (32.151561°)
LONGITUDE = -103°56'35.11" (-103.943086°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419136.65' E: 661960.19'
STATE PLANE NAD 27 (N.M. EAST)
N: 419078.26' E: 620775.55'

NAD 83 (KICK OFF POINT)
LATITUDE = 32°09'06.56" (32.151822°)
LONGITUDE = -103°56'36.86" (-103.943572°)
NAD 27 (KICK OFF POINT)
LATITUDE = 32°09'06.12" (32.151699°)
LONGITUDE = -103°56'35.11" (-103.943087°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419186.64' E: 661959.83'
STATE PLANE NAD 27 (N.M. EAST)

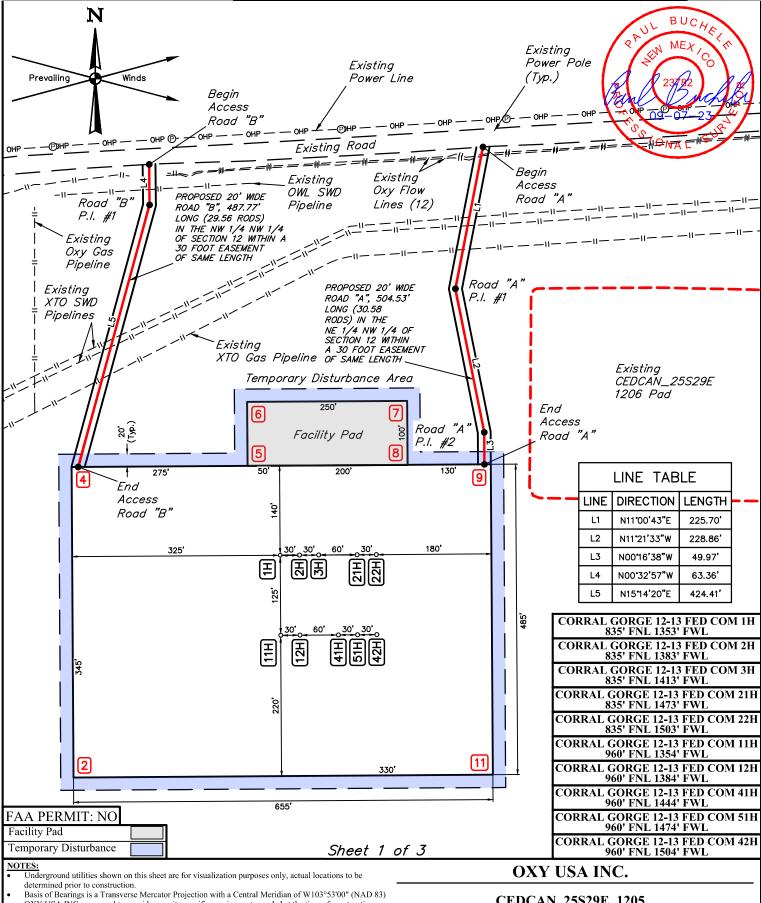
N: 419128.24' E: 620775.19'

NAD 83 (LEASE CROSSING)
LATITUDE = 32°08'14.47" (32.137353°)
LONGITUDE = -103°56'36.76" (-103.943545°)
NAD 27 (LEASE CROSSING)
LATITUDE = 32°08'14.02" (32.137229°)
LONGITUDE = -103°56'35.02" (-103.943061°)
STATE PLANE NAD 83 (N.M. EAST)
N: 413922.89' E: 661987.01'
STATE PLANE NAD 27 (N.M. EAST)
N: 413864.61' E: 620802.22'

3000'	1500'	0,	3000'
		SCALE	_

NAD 83 (LAST TAKE POINT)		Γ
LATITUDE = 32°07'22.92" (32.123033°)		Γ
LONGITUDE = -103°56'36.67" (-103.943520°)		L
NAD 27 (LAST TAKE POINT)		Г
LATITUDE = 32°07'22.47" (32.122909°)		Г
LONGITUDE = -103°56'34.93" (-103.943036°)		ı
STATE PLANE NAD 83 (N.M. EAST)		Г
N: 408713.57' E: 662013.80'		Г
STATE PLANE NAD 27 (N.M. EAST)		Г
N: 408655.40' E: 620828.87'	Ш	Г

NAD 83 (BOTTOM HOLE LOCATION)
LATITUDE = 32°07'22.13" (32.122813°)
LONGITUDE = -103°56'36.67" (-103.943520°)
NAD 27 (BOTTOM HOLE LOCATION)
LATITUDE = 32°07'21.68" (32.122689°)
LONGITUDE = -103°56'34.93" (-103.943036°)
STATE PLANE NAD 83 (N.M. EAST)
N: 408633.59' E: 662014.05'
STATE PLANE NAD 27 (N.M. EAST)
N: 408575.41' E: 620829.12'



OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

SURVEYED BY	C.T., K.H.	08-10-23	SCALE			
DRAWN BY	N.R.	09-07-23	1" = 150'			
SITE PLAN						

CORRAL GORGE 12-13 FED COM 1H
EL: 3104.1'
NAD 83
LATITUDE = 32°08'58.82" (32.149673°)
LONGITUDE = -103°56'32 02" (-103 9422)

LATITUDE = 32°08'58.38" (32.149549°) LONGITUDE = -103°56'30.27" (-103.941743°) STATE PLANE NAD 83 (N.M. EAST)

CORRAL GORGE 12-13 FED COM 21H -

LONGITUDE = -103°56'30.63" (-103.941840°)

LONGITUDE = -103°56'28.88" (-103.941355°)

LATITUDE = 32°08'58.83" (32.149675°)

LATITUDE = $32^{\circ}08'58.39''$ (32.149552)

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

LATITUDE = 32°08'57.59" (32.149330°)

LATITUDE = 32°08'57.14" (32.149206°)

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

CORRAL GORGE 12-13 FED COM 12H -

LONGITUDE = -103°56'31.66" (-103.942128°)

LONGITUDE = -103°56'29.92" (-103.941643°)

N: 418407.53' E: 662498.52

N: 418349.15' E: 621313.86'

N: 418281.60' E: 662409.88

N: 418223.22' E: 621225

N: 418406.24' E: 662378.56

STATE PLANE NAD 27 (N.M. EAST)

N: 418347.87' E: 621193.89'

CORRAL GORGE 12-13 FED COM 2H -

LATITUDE = 32°08'58.82" (32.149674 LONGITUDE = -103°56'31.67" (-103.942131°)

LATITUDE = 32°08'58.38" (32.149550°) LONGITUDE = -103°56'29.93" (-103.941646°)

STATE PLANE NAD 83 (N.M. EAST) N: 418406.57' E: 662408.55'

STATE PLANE NAD 27 (N.M. EAST)

N: 418348.19' E: 621223.88

CORRAL GORGE 12-13 FED COM 22H -

NAD 83

LATITUDE = 32°08'58.83" (32.149676° LONGITUDE = -103°56'30.28" (-103.941743°)

LATITUDE = 32°08'58.39" (32.149552 LONGITUDE = -103°56'28.53" (-103.941258°)

STATE PLANE NAD 83 (N.M. EAST) N: 418407.85' E: 662528.52

STATE PLANE NAD 27 (N.M. EAST)

N: 418349.47' E: 621343.85'

CORRAL GORGE 12-13 FED COM 41H -EL: 3105.6

LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°)

NAD 27

LATITUDE = 32°08'57.15" (32.149207°) LONGITUDE = -103°56'29.22" (-103.941449°)

STATE PLANE NAD 83 (N.M. EAST)

N: 418282.24' E: 662469

STATE PLANE NAD 27 (N.M. EAST)

N: 418223.86' E: 621285.20

CORRAL GORGE 12-13 FED COM 3H -EL: 3104.7

NAD 83

LATITUDE LONGITUDE = -103°56'31.32" (-103.942034°)

LATITUDE = 32°08'58.38" (32.149550°) LONGITUDE = -103°56'29.58" (-103.941549°)

STATE PLANE NAD 83 (N.M. EAST) N: 418406.89' E: 662438.54

STATE PLANE NAD 27 (N.M. EAST)

N: 418348.51' E: 621253.8

CORRAL GORGE 12-13 FED COM 11H -EL: 3105.7'

NAD 83

LATITUDE = 32°08'57.59" (32.149329°) LONGITUDE = -103°56'32.01" (-103.942225°)

LATITUDE = 32°08'57.14" (32.149206 LONGITUDE = -103°56'30.26" (-103.941740°)

STATE PLANE NAD 83 (N.M. EAST) N: 418281.28' E: 662379.89'

STATE PLANE NAD 27 (N.M. EAST)

N: 418222.90' E: 621195.22

CORRAL GORGE 12-13 FED COM 51H -EL: 3106.2

LATITUDE = 32°08'57.59" (32.149332°)

LATITUDE = 32°08'57.15" (32.149208°)

LONGITUDE = -103°56'28.87" (-103.941353°)

STATE PLANE NAD 27 (N.M. EAST)

N: 418224.19' E: 621315.19'

CORRAL GORGE 12-13 FED COM 42H -

EL: 3106.5'

NAD 27

NAD 83

LATITUDE = 32°08'57.60" (32.149332°) LONGITUDE = -103°56'30.27" (-103.941741°)

LATITUDE = 32°08'57.15" (32.149209°)

LONGITUDE = -103°56'28.52" (-103.941256°) STATE PLANE NAD 83 (N.M. EAST)

N: 418282.88' E: 662529.85'

STATE PLANE NAD 27 (N.M. EAST)

N: 418224.51' E: 621345.18

LONGITUDE = -103°56'30.61" (-103.941837°) NAD 27

STATE PLANE NAD 83 (N.M. EAST)

N: 418282.56' E: 662499.86

BUCHE 09 - 07 - 23ONAL

Sheet 2 of 3

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

OXY USA INC.

CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY C.T., K.H. 08-10-23 SCALE **DRAWN BY** 09-07-23 N/A SITE PLAN



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

2 - EL: 3102.4'
NAD 83
LATITUDE = 32°08'55.39" (32.148718°)
LONGITUDE = -103°56'35.77" (-103.943270°)
NAD 27
LATITUDE = 32°08'54.94" (32.148595°)
LONGITUDE = -103°56'34.03" (-103.942785°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418057.86' E: 662057.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 417999.49' E: 620872.66'

NAD 83
LATITUDE = 32°09'00.18" (32.150051°)
LONGITUDE = -103°56'35.81" (-103.943281°)
NAD 27
LATITUDE = 32°08'59.74" (32.149928°)
LONGITUDE = -103°56'34.07" (-103.942796°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418542.73' E: 662052.15'
STATE PLANE NAD 27 (N.M. EAST)
N: 418484.35' E: 620867.49'

4 - EL: 3095.3'

5 - EL: 3100.7'	6 - EL: 3100.2'
NAD 83	NAD 83
LATITUDE = 32°09'00.20" (32.150057°)	LATITUDE = 32°09'01.19" (32.150332°)
LONGITUDE = -103°56'32.61" (-103.942393°)	LONGITUDE = -103°56'32.62" (-103.942395°)
NAD 27	NAD 27
LATITUDE = 32°08'59.76" (32.149933°)	LATITUDE = 32°09'00.75" (32.150208°)
LONGITUDE = -103°56'30.87" (-103.941908°)	LONGITUDE = -103°56'30.88" (-103.941910°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 418545.67' E: 662327.07'	N: 418645.65' E: 662326.00'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 418487.29' E: 621142.41'	N: 418587.26' E: 621141.34'
9 - EL: 3108.2'	11 - EL: 3112.3'

7 - F	EL: 3105.3'
NAI	
LAT	TITUDE = 32°09'01.21" (32.150336°)
LON	NGITUDE = -103°56'29.71" (-103.941587°)
NAI	D 27
LAT	TITUDE = 32°09'00.77" (32.150213°)
LON	NGITUDE = -103°56'27.97" (-103.941102°)
STA	TE PLANE NAD 83 (N.M. EAST)
	18648.32' E: 662575.94'
STA	TE PLANE NAD 27 (N.M. EAST)
N: 4	18589.94' E: 621391.28'
-	
DEC	CIN ACCESS DOAD !!A!! FL. 2111 6!

8 - EL: 3104.8'
NAD 83
LATITUDE = 32°09'00.22" (32.150062°)
LONGITUDE = -103°56'29.71" (-103.941585°)
NAD 27
LATITUDE = 32°08'59.78" (32.149938°)
LONGITUDE = -103°56'27.96" (-103.941100°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418548.35' E: 662577.01'
STATE PLANE NAD 27 (N.M. EAST)
N: 418489.96' E: 621392.34'
_
PL#1 ACCESS ROAD "A" - EL: 3109.5'

9 - EL: 3108.2'
NAD 83
LATITUDE = 32°09'00.23" (32.150064°)
LONGITUDE = -103°56'28.19" (-103.941165°)
NAD 27
LATITUDE = 32°08'59.79" (32.149940°)
LONGITUDE = -103°56'26.45" (-103.940680°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418549.73' E: 662706.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 418491.35' E: 621522.31'
PI #2 ACCESS ROAD "A" - EL: 3107.7'

11 - EL: 3112.3'
NAD 83
LATITUDE = 32°08'55.43" (32.148731°)
LONGITUDE = -103°56'28.15" (-103.941154°)
NAD 27
LATITUDE = 32°08'54.99" (32.148607°)
LONGITUDE = -103°56'26.41" (-103.940669°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418064.86' E: 662712.16'
STATE PLANE NAD 27 (N.M. EAST)
N: 418006.49' E: 621527.48'
END ACCESS ROAD "A" - EL: 3108.2'

BEGIN ACCESS ROAD "A" - EL: 3111.6'
NAD 83
LATITUDE = 32°09'05.14" (32.151427°)
LONGITUDE = -103°56'28.34" (-103.941205°)
NAD 27
LATITUDE = 32°09'04.69" (32.151303°)
LONGITUDE = -103°56'26.59" (-103.940721°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419045.40' E: 662692.67'

STATE PLANE NAD 27 (N.M. EAST) N: 418987.01' E: 621508.02'

11#1 ACCESS ROAD A - EL. 3103.3
NAD 83
LATITUDE = 32°09'02.94" (32.150818°)
LONGITUDE = -103°56'28.84" (-103.941344°)
NAD 27
LATITUDE = 32°09'02.50" (32.150694°)
LONGITUDE = -103°56'27.09" (-103.940859°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418823.72' E: 662650.49'
STATE PLANE NAD 27 (N.M. EAST)
N: 418765.33' E: 621465.84'

PI #2 ACCESS ROAD "A" - EL: 3107.7'
NAD 83
LATITUDE = 32°09'00.72" (32.150201°)
LONGITUDE = -103°56'28.31" (-103.941198°)
NAD 27
LATITUDE = 32°09'00.28" (32.150078°)
LONGITUDE = -103°56'26.57" (-103.940713°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418599.58' E: 662696.50'
STATE PLANE NAD 27 (N.M. EAST)
N: 418541.20' E: 621511.83'
END ACCESS ROAD "B" - EL: 3095.4'
7 × 1 × 2 × 2

N. 418000.49 E. 021327.48
END ACCESS ROAD "A" - EL: 3108.2'
NAD 83
LATITUDE = 32°09'00.23" (32.150064°)
LONGITUDE = -103°56'28.31" (-103.941197°)
NAD 27
LATITUDE = 32°08'59.78" (32.149940°)
LONGITUDE = -103°56'26.57" (-103.940713°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418549.63' E: 662696.95'
STATE PLANE NAD 27 (N.M. EAST)
N: 418491.25' E: 621512.28'
•

BF	CGIN ACCESS ROAD "B" - EL: 3096.2'
N/	AD 83
LA	TITUDE = 32°09'04.86" (32.151351°)
LC	NGITUDE = -103°56'34.41" (-103.942891°)
	AD 27
LA	TITUDE = 32°09'04.42" (32.151228°)
LC	NGITUDE = -103°56'32.66" (-103.942406°)
ST	ATE PLANE NAD 83 (N.M. EAST)
N:	419016.05' E: 662171.25'
ST	ATE PLANE NAD 27 (N.M. EAST)
N:	418957.66' E: 620986.61'

NAD 83 LATITUDE = 32°09'04.24" (32.151177°) LONGITUDE = -103°56'34.40" (-103.942889°) NAD 27 LATITUDE = 32°09'03.79" (32.151053°) LONGITUDE = -103°56'32.65" (-103.942404°) STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	PI #1 ACCESS ROAD "B" - EL: 3095.8'
LONGITUDE = -103°56'34.40" (-103.942889°) NAD 27 LATITUDE = 32°09'03.79" (32.151053°) LONGITUDE = -103°56'32.65" (-103.942404°) STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	NAD 83
NAD 27 LATITUDE = 32°09'03.79" (32.151053°) LONGITUDE = -103°56'32.65" (-103.942404°) STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	LATITUDE = 32°09'04.24" (32.151177°)
LATITUDE = 32°09'03.79" (32.151053°) LONGITUDE = -103°56'32.65" (-103.942404°) STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	LONGITUDE = -103°56'34.40" (-103.942889°)
LONGITUDE = -103°56'32.65" (-103.942404°) STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	NAD 27
STATE PLANE NAD 83 (N.M. EAST) N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	LATITUDE = 32°09'03.79" (32.151053°)
N: 418952.71' E: 662172.13' STATE PLANE NAD 27 (N.M. EAST)	LONGITUDE = -103°56'32.65" (-103.942404°)
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
	N: 418952.71' E: 662172.13'
	STATE PLANE NAD 27 (N.M. EAST)
N: 418894.32' E: 620987.48'	N: 418894.32' E: 620987.48'

E	ND ACCESS ROAD "B" - EL: 3095.4'
N	(AD 83
L	ATITUDE = 32°09'00.19" (32.150052°)
L	ONGITUDE = -103°56'35.69" (-103.943248°)
N	AD 27
L	ATITUDE = 32°08'59.74" (32.149928°)
L	ONGITUDE = -103°56'33.95" (-103.942763°)
S	TATE PLANE NAD 83 (N.M. EAST)
N	: 418542.84' E: 662062.31'
S	TATE PLANE NAD 27 (N.M. EAST)
N	: 418484.46' E: 620877.65'



Sheet 3 of 3

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83) OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

OXY USA INC.

CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO





UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

gement Plan m	ust be submitted w	ith each Applicat	tion for Permit to I	Orill (APD)) for a new o	r recompleted well.
A INC.		OGRID: <u>16</u>	6696		Date: 0 4/	2 5/ 2 5
☐ Amendment	due to □ 19.15.27	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NM	AC □ Other.	
»:						
				wells propo	osed to be dr	illed or proposed to
API	ULSTR	Footages	Anticipated Oil BBL/D			Anticipated roduced Water BBL/D
le: Provide the	following informa	tion for each nev		vell or set o	-	27.9(D)(1) NMAC] osed to be drilled or
API	Spud Date	TD Reached Date				First Production Date
tices: Attac of 19.15.27.8	h a complete descr NMAC. Z Attach a comple	ription of the act	tions Operator wil	l take to c	omply with	the requirements of
	A INC. Amendment following infingle well pad API oint Name: C le: Provide the eted from a single well pad API are tices: Attached tices: Attached from the eted from the ete ete ete ete ete ete ete ete ete	A INC. A mendment due to □ 19.15.27. Electron of the following information for each single well pad or connected to a connected from a single well pad or connected from a	Section 1 — Plan D Effective May 25. A INC. OGRID: 16 Amendment due to □ 19.15.27.9.D(6)(a) NMA elements with a connected to a central delivery properties. API ULSTR Footages Oint Name: CORRAL GORGE CTB de: Provide the following information for each new eted from a single well pad or connected to a central delivery properties. API Spud Date TD Reached Date API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. API Spud Date TD Reached Date The connected to a central delivery properties. Attach a complete description of how Open tices: ✓ Attach a complete description of the according to the connected to a central delivery properties.	Section 1 — Plan Description Effective May 25, 2021 A INC. OGRID: 16696 Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6) continuous properties of the following information for each new or recompleted well or set of vingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Coint Name: CORRAL GORGE CTB Re: Provide the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well or set of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well of the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the following information for each new or recompleted well of the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the following information for each new or recompleted well or set of the	Section 1 — Plan Description Effective May 25, 2021 A INC. OGRID: 16696 Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC: ef following information for each new or recompleted well or set of wells properingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCO O	A INC. OGRID: 16696 Date: 0 4/ Amendment due to 19.15.27.9.D(6)(a) NMAC 19.15.27.9.D(6)(b) NMAC 10ther. Collaboration for each new or recompleted well or set of wells proposed to be dringle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas MCF/D P Coint Name: CORRAL GORGE CTB [See 19.15.2] Coint Provide the following information for each new or recompleted well or set of wells proposed from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back Date Commencement Date Back Date Completion Commencement Date Back Date Completion Commencement Date Back Date Completion Comp

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☑ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF					
W.N. J.C. C. J. S. A. (NGCC)								

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering	Available Maximum Daily Capacity
_	-		Start Date	of System Segment Tie-in

XI. Map. \square Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated nat	tural gas
production volume from the well prior to the date of first production.	

XIII. Line Pressure. O	perator 🗆 does 🗆 do	oes not anticipate that its	s existing well(s)	connected to the s	ame segment,	or portion,	of the
natural gas gathering sy	stem(s) described about	ove will continue to mee	et anticipated incre	eases in line press	sure caused by	the new we	ll(s).

		· •	1 .		1	•	1		1.
1 1	Affach (Inerator's	s nlan ta	manage	nroduction	in resnonce	to the	increased	line pressure

XIV.	nfidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in
Section	as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information
for wh	confidentiality is asserted and the basis for such assertion.

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Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☑ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

Well Shut-In. □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

(a) power generation on lease;

If Operator checks this box, Operator will select one of the following:

- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Melíssa Guídry
Printed Name: Melissa Guidry
Title: Regulatory Advisor Sr.
E-mail Address: melissa_guidry@oxy.com
Date: 04/25/25
Phone: 713-497-2481
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
CORRAL GORGE 12_13 FED COM 41H	Pending	C-12-25S-29E	960' FNL 1444' FWL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 42H	Pending	C-12-25S-29E	960' FNL 1504' FWL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 43H	Pending	B-12-25S-29E	668' FNL 2396' FEL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 44H	Pending	A-12-25S-29E	992' FNL 1072' FEL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 51H	Pending	C-12-25S-29E	960' FNL 1474' FWL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 52H	Pending	B-12-25S-29E	668' FNL 2426' FEL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 53H	Pending	A-12-25S-29E	992' FNL 1102' FEL	1012	9500	3700
CORRAL GORGE 12_13 FED COM 54H	Pending	A-12-25S-29E	992' FNL 1042' FEL	1012	9500	3700

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
CORRAL GORGE 12_13 FED COM 41H	Pending	04/29/2026	07/03/2026	08/06/2026	09/01/2026	09/06/2026
CORRAL GORGE 12_13 FED COM 42H	Pending	05/04/2026	06/23/2026	08/06/2026	08/30/2026	09/06/2026
CORRAL GORGE 12_13 FED COM 43H	Pending	04/26/2026	07/01/2026	08/03/2026	08/29/2026	09/05/2026
CORRAL GORGE 12_13 FED COM 44H	Pending	05/02/2026	06/20/2026	08/03/2026	08/27/2026	09/05/2026
CORRAL GORGE 12_13 FED COM 51H	Pending	05/10/2026	06/12/2026	08/06/2026	09/02/2026	09/06/2026
CORRAL GORGE 12_13 FED COM 52H	Pending	05/15/2026	06/01/2026	08/06/2026	08/28/2026	09/06/2026
CORRAL GORGE 12_13 FED COM 53H	Pending	05/07/2026	06/10/2026	08/03/2026	09/01/2026	09/05/2026
CORRAL GORGE 12_13 FED COM 54H	Pending	05/13/2026	05/30/2026	08/03/2026	08/31/2026	09/05/2026

Central Delivery Point Name: Corral Gorge CTB

Part VI. Separation Equipment

Operator will size the flowback separator to handle 5,000 Bbls of fluid and 9 -10 MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440 psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from the production facility is sent to ETC Texas Pipeline, LTD ("ETC") and Enterprise Field Services, LLC ("Enterprise") via the Oxy gas network. This network is connected to Enterprise and ETC high pressure gathering systems located in Eddy County, New Mexico. Produced gas is compressed by OXY USA INC. ("OXY") to the appropriate pressures for each gathering system. OXY provides (periodically) to ETC and Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY has periodic conference calls with these Midstream companies to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the following plants:

Orla Plant Processing Plant located in Sec. 35, Block 57, T2, T&P RR CO, Reeves, County, Texas.

OXY USA WTP LP Processing Plant located in Sec. 23, Twn. 21S, Rng. 23E, Eddy County, New Mexico.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

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VIII. Best Management Practices

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

Power Generation – On lease

Only a portion of gas is consumed operating the generator, remainder of gas will be flared

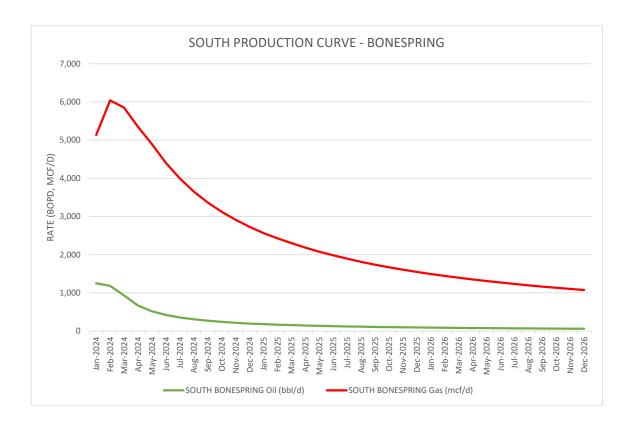
Compressed Natural Gas - On lease

Gas flared would be minimal, but might be uneconomical to operate when gas volume declines

NGL Removal – On lease

Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

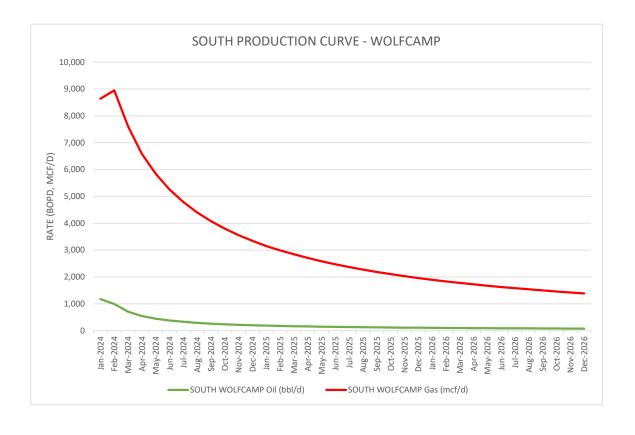
	SOUTH BONESPRING				
	Oil (bbl/d)	Gas (mcf/d)			
Jan-2024	1,250	5,135			
Feb-2024	1,184	6,041			
Mar-2024	933	5,849			
Apr-2024	670	5,349			
May-2024	517	4,893			
Jun-2024	421	4,401			
Jul-2024	355	3,994			
Aug-2024	306	3,652			
Sep-2024	270	3,368			
Oct-2024	240	3,125			
Nov-2024	217	2,915			
Dec-2024	197	2,731			
Jan-2025	181	2,566			
Feb-2025	167	2,426			
Mar-2025	155	2,301			
Apr-2025	145	2,184			
May-2025	136	2,078			
Jun-2025	127	1,982			
Jul-2025	120	1,894			
Aug-2025	114	1,812			
Sep-2025	108	1,739			
Oct-2025	102	1,670			
Nov-2025	98	1,607			
Dec-2025	93	1,549			
Jan-2026	89	1,493			
Feb-2026	85	1,444			
Mar-2026	82	1,398			
Apr-2026	79	1,353			
May-2026	76	1,311			
Jun-2026	73	1,271			
Jul-2026	71	1,234			
Aug-2026	68	1,198			
Sep-2026	66	1,165			
Oct-2026	64	1,133			
Nov-2026	62	1,104			
Dec-2026	60	1,075			



	SOUTH WOLFCAMP			
	Oil (bbl/d)	Gas (mcf/d)		
Jan-2024	1,178	8,636		
Feb-2024	995	8,951		
Mar-2024	706	7,614		
Apr-2024	544	6,588		
May-2024	445	5,841		
Jun-2024	377	5,261		
Jul-2024	328	4,794		
Aug-2024	291	4,402		
Sep-2024	261	4,076		
Oct-2024	238	3,797		
Nov-2024	218	3,555		
Dec-2024	201	3,343		
Jan-2025	187	3,152		
Feb-2025	175	2,990		
Mar-2025	165	2,844		
Apr-2025	156	2,708		
May-2025	148	2,584		
Jun-2025	140	2,471		
Jul-2025	133	2,368		
Aug-2025	127	2,272		
Sep-2025	122	2,184		
Oct-2025	117	2,104		
Nov-2025	112	2,029		
Dec-2025	108	1,959		
Jan-2026	104	1,893		
Feb-2026	101	1,834		
Mar-2026	97	1,778		
Apr-2026	94	1,725		
May-2026	91	1,674		
Jun-2026	89	1,626		
Jul-2026	86	1,581		
Aug-2026	84	1,538		
Sep-2026	81	1,498		
Oct-2026	79	1,460		
Nov-2026	77	1,423		
5 0000		4 200		

1,389

75



Dec-2026

Oxy USA Inc. - CORRAL GORGE 12-13 FED COM 51H Drill Plan

1. Geologic Formations

TVD of Target (ft):	11228	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	21625	Deepest Expected Fresh Water (ft):	376

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	376	376	
Salado	775	775	Salt
Castile	1750	1750	Salt
Delaware	3304	3304	Oil/Gas/Brine
Bell Canyon	3295	3295	Oil/Gas/Brine
Cherry Canyon	4198	4198	Oil/Gas/Brine
Brushy Canyon	5573	5563	Losses
Bone Spring	7113	7080	Oil/Gas
Bone Spring 1st	8050	8003	Oil/Gas
Bone Spring 2nd	8915	8855	Oil/Gas
Bone Spring 3rd	10036	9959	Oil/Gas
Wolfcamp	10355	10273	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program

		N	ID	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	715	0	715	10.75	45.5	J-55	BTC
Intermediate	9.875	0	10771	0	10684	7.625	26.4	L-80 HC	втс
Production	6.75	0	21625	0	11228	5.5	20	P-110	Sprint-SF

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172

All Casing SF Values will meet or exceed					
those below					
SF	SF	SF Body SF Joint			
Collapse	Burst	Tension	Tension		
1.00	1.100	1.4	1.4		

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	v
If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	ĭ
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
	•
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	598	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	664	1.68	13.2	5%	5,823	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	900	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	643	1.84	13.3	25%	10,271	Circulate	Class C+Ret.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре	1	Tested to:	Deepest TVD Depth (ft) per Section:															
		5M	Annular	✓	70% of working pressure																
			Blind Ram	✓																	
9.875" Hole	13-5/8"	5M	Pipe Ram		250 psi / 5000 psi	10684															
			Double Ram	\	230 psi / 3000 psi																
			Other*			į															
		5M	Annular	✓	100% of working pressure																
									ĺ	ĺ		İ						Blind Ram	✓		
6.75" Hole 13	13-5/8"	10M	Pipe Ram		250 psi / 10000 psi	11228															
		TOW	Double Ram	✓	230 psi / 10000 psi																
			Other*																		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Annular BOP Variance attachment for further details.

^{*}Specify if additional ram is utilized

Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.

5. Mud Program

Section	Depth -	· MD	Depth - TVD		Type		Depth - TVD Type Weight Viscosity		Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Type	(ppg)	Viscosity	Loss		
Surface	0	715	0	715	Water-Based Mud	8.6 - 8.8	40-60	N/C		
Intermediate	715	10771	715	10684	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C		
Production	10771	21625	10684	11228	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C		

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

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	

6. Logging and Testing Procedures

Loggi	ng, Coring and Testing.
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
168	Stated logs run will be in the Completion Report and submitted to the BLM.
No	Logs are planned based on well control or offset log information.
No	Drill stem test? If yes, explain
No	Coring? If yes, explain

Addit	ional logs planned	Interval
No	Resistivity	
No	Density	
Yes	CBL	Production string
Yes	Mud log	Bone Spring – TD
No	PEX	

Created On: 2/13/2025 at 10:57 AM

Occidental - Permian New Mexico

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7883 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	170°F

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR part 3170 Subpart 3172. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

the bi	LIVI.
N	H2S is present
Υ	H2S Plan attached

8. Other facets of operation

·	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the 3 well pad in batch by section: all surface sections, intermediate	
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1585 bbls

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

1. Utilize a spudder rig to pre-set surface casing for time and cost savings.

2. Description of Operations

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- **6.** Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 90 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be contacted / notified 24 hours before the larger rig moves back on the pre-set locations
- 7. Oxy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- **8.** Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.

Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design A

Pad Name: CEDCAN_25S29E_1205 **SHL:** 960' FNL 1444' FWL, Sec 12, T25S-R29E

Oxy requests for the bellow wells to be approved for the two designs listed in the Blanket Design document (Blanket Design A –OXY –3S Slim v7.2.) The MDs and TVDs for all intervals are within the boundary conditions. The max inclination and DLS are also within the boundary conditions (directional plans attached separately for review.)

1. Blanket Design - Wells

Well Name	APD#	Surface		Interm	ediate	Produ	ıction
well Name	APD#	MD	TVD	MD	TVD	MD	TVD
CORRAL GORGE 12-13 FED COM 41H	N/A - New Permit	711	711	10825	10672	21754	11284
CORRAL GORGE 12-13 FED COM 42H	N/A - New Permit	722	722	10777	10699	21687	11300
CORRAL GORGE 12-13 FED COM 51H	N/A - New Permit	715	715	10771	10684	21625	11228

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	1
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	Y
the collapse pressure rating of the casing?	1
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-Q?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
	_
Is well located in R-111-Q and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	376	376	
Salado	771	771	Salt
Castile	1744	1744	Salt
Delaware	3298	3298	Oil/Gas/Brine
Bell Canyon	3288	3288	Oil/Gas/Brine
Cherry Canyon	4188	4188	Oil/Gas/Brine
Brushy Canyon	5564	5561	Losses
Bone Spring	7118	7074	Oil/Gas
Bone Spring 1st	8062	7990	Oil/Gas
Bone Spring 2nd	8941	8843	Oil/Gas
Bone Spring 3rd	10084	9952	Oil/Gas
Wolfcamp	10405	10264	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	595	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	673	1.68	13.2	5%	5,814	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	898	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	647	1.84	13.3	25%	10,325	Circulate	Class C+Ret.





1. Casing Program

The designs and associated details listed in this document are the "worst case scenario" boundaries for design safety factors.

Location and lithology have NOT been accounted for in these designs; however, the designs are NOT valid for wells within KPLA Boundaries or Capitan Reef areas. The specific well details will be based on the APD/Sundry package and the information listed in the COA.

The mud program listed below will remain the same between each design variation.

Hole will be full during casing run for well control and tensile SF.

Casing will be kept at least half full during run for these designs to meet BLM collapse SF requirement.

Design Variation "A1"

			MD	T	VD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	14.75	0	1200	0	1200	10.75	45.5	J-55	втс
Intermediate	9.875	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

^{*}Curve could be in intermediate or production section

Design Variation "A2" - Option to Pivot to Design "B" for Contingency 4S

			MD		TVD				
Section	Hole Size (in)	From (ft)	To (ft)	From (ft)	To (ft)	Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
Surface	17.5	0	1200	0	1200	13.375	54.5	J-55	ВТС
Intermediate	12.25†	0	13111*	0	12775*	7.625	26.4	L-80 HC	BTC Axis HT GBCD
Production	6.75	0	23361	0	12775	5.5	20	P-110	Wedge 461 Sprint SF DWC/C-HT-IS

^{*}Curve could be in intermediate or production section

†If 4S Contingency is not required, Oxy requests permission to transition from 12.25" to 9.875" Intermediate at some point during the hole section. Cement volumes will be updated on C103 submission.

All casing strings will be tested in accordance with 43 CFR part 3170 Subpart 3172





All Casing SF Values will meet or							
exceed those below							
SF	SF SF Body SF Joint SF						
Collapse	Burst	Tension	Tension				

§Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement. Please see Annular Clearance Variance attachment for further details.

§Annular Clearance Variance Request may not apply to all connections used or presented.

2. Trajectory / Boundary Conditions

	ME)	TV	D		
Section	Deepest KOP (ft)	End Build (ft)	Deepest KOP (ft)	End Build (ft)	Max. Angle	Max. Planned DLS
Surface	0	1200	0	1200	5°	1°/100 ft
Intermediate	5000 (inside Cherry Canyon)	6500	4980	6390	20°	2°/100 ft
	12211	13111	12202	12775	92°‡	12°/100 ft ‡
Production	12211 (~100' MD past ICP)	13111	12202	12775	92°‡	12°/100 ft ‡

[‡] Applies only when intermediate casing depth is deepened to landing point to match TVD of production in some areas where required to accommodate higher MWs in depleted areas.

Oxy has reviewed casing burst, collapse, and axial loadcases in Landmark StressCheck with the boundary conditions in the table above which satisfies Oxy and BLM minimum design criteria. Triaxial plots for each casing string is shown in Section 7 and intermediate load case inputs are shown in Section 8.





3. Cementing Program

NOTE: Blanket design is for technical review only. The cement volumes will be adjusted to ensure cement tops meet BLM requirements.

Design Variation "A1"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	819	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1111	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

^{*}Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

Design Variation "A2"

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	1023	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	658	1.68	13.2	5%	7,206	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1293	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	665	1.84	13.3	25%	11,611	Circulate	Class C+Ret.
Prod.	2*	Production - Tail BH*	TBD	1.84	13.3	50%	500' inside prev csg	Circulate	Class C+Ret.

^{*}Only applies in scenario where planned single stage job TOC is not 500' above previous shoe as designed/programmed requiring bradenhead 2nd stage to meet requirements

<u>As Reviewed and Approved by BLM on Feb 8, 2024</u>: Oxy uses a Class C / Pozzolan mix on its production cement slurry, which has the same fluid properties as Class H, and has been pilot and field blend tested to have as good or better compressive strength development at our target densities.

Offline Cementing Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365. Please see Offline Cementing Variance attachment for further details.

Bradenhead CBL Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see Bradenhead CBL Variance attachment for further details.





4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		1	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
	13-5/8"		Blind Ram ✓				
9.875" Hole		5M	Pipe Ram			250 psi / 5000 psi	12775**
		JIVI	Double Ram		✓	230 psi / 3000 psi	
			Other*				
	5M		Annular		✓	100% of working pressure	
	13-5/8"	" 10M	Blind Ram		✓		12775
6.75" Hole			Pipe Ram			250 psi / 10000 psi	
			Double Ram		√	200 psi / 10000 psi	
			Other*				

^{*}Specify if additional ram is utilized

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

5M Annular BOP Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are

^{**}Curve could be in intermediate or production section





Formation integrity test will be performed per 43 CFR part 3170 Subpart 3172.

On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR part 3170 Subpart 3172.

A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. Coflex hoses are in compliance with API 16C and meets inspection and testing requirements. See attached for specs and hydrostatic test chart.

Υ

Are anchors required by manufacturer?

A multibowl or a unionized multibowl wellhead system will be employed. The wellhead and connection to the BOPE will meet all API 6A requirements. The BOP will be tested per 43 CFR part 3170 Subpart 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. We will test the flange connection of the wellhead with a test port that is directly in the flange. We are proposing that we will run the wellhead through the rotary prior to cementing surface casing as discussed with the BLM on October 8, 2015.

See attached Schematics.

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. Please see BOP Break Testing Variance attachment for further details.

Hammer Union Variance

Oxy requests permission for hammer unions behind the choke to be routed to the gas buster. The hammer unions will not be subject to wellbore pressure in compliance with API STD 53.

Oxy will use Cameron ADAPT wellhead system that uses an OEC top flange connection. This connection has been fully vetted and verified by API to Spec 6A and carries an API monogram.





5. Mud Program & Drilling Conditions

Section	Depth	- MD	Depth	- TVD	Tuno	Weight	Viscosity	Water Loss
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)		
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

^{*}Curve could be in intermediate or production section*

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

Drilling Blind Request

In the event total losses are encountered in the intermediate section, Oxy requests permission to drill blind due to depleted formations where risk of hydrocarbon kicks are unlikely.

- Oxy will first attempt to cure losses before proceeding with drilling blind
- Drilling blind will only be allowed in the Castille and formations below
- While drilling blind, will monitor backside by filling-up on connections and utilize gas monitors
- Depths at which losses occurred and attempt to cure losses with relevant details (LCM sweep info, etc.) will be documented in the drillers log and Subsequent Reports to the BLM.
- If a well control event (hydrocarbon kick) occurs while drilling blind, the BLM will be notified after the well is secured and returned to static.

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	F V 1/1VID TOLCO/ VISUAL IVIOLITO III

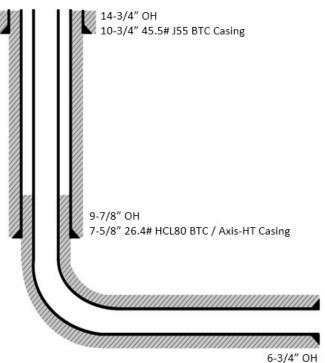
Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential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





6. Wellbore Diagram(s)

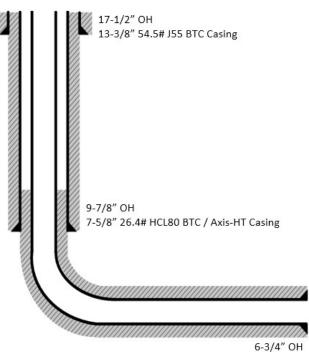
Design Variation "A1"



5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG

Design Variation "A2"



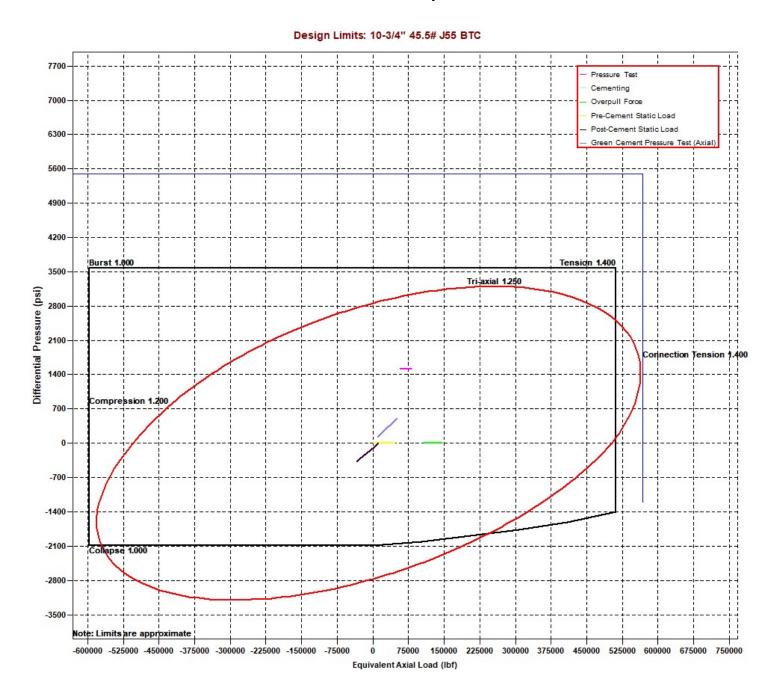
5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG



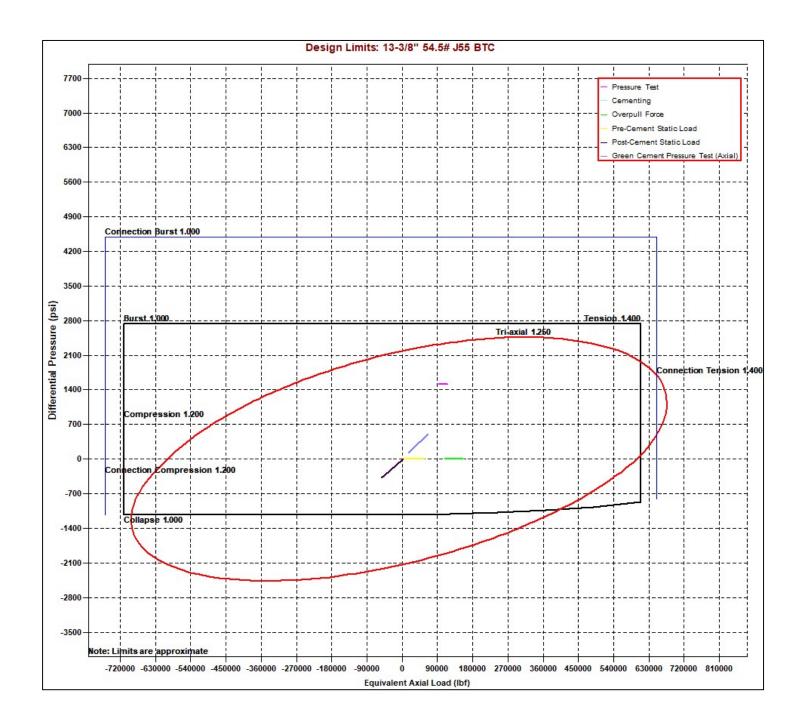


7. Landmark StressCheck Screenshots - Triaxial Output



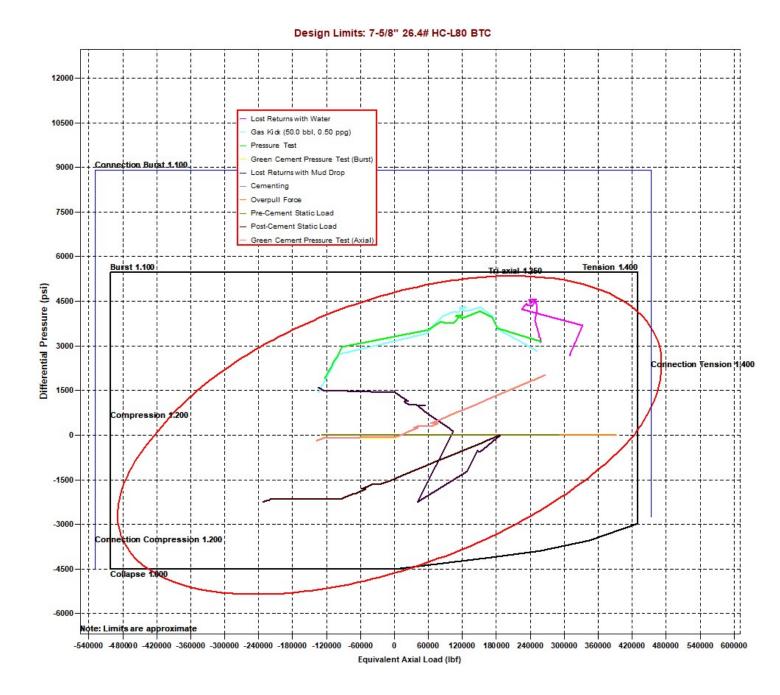








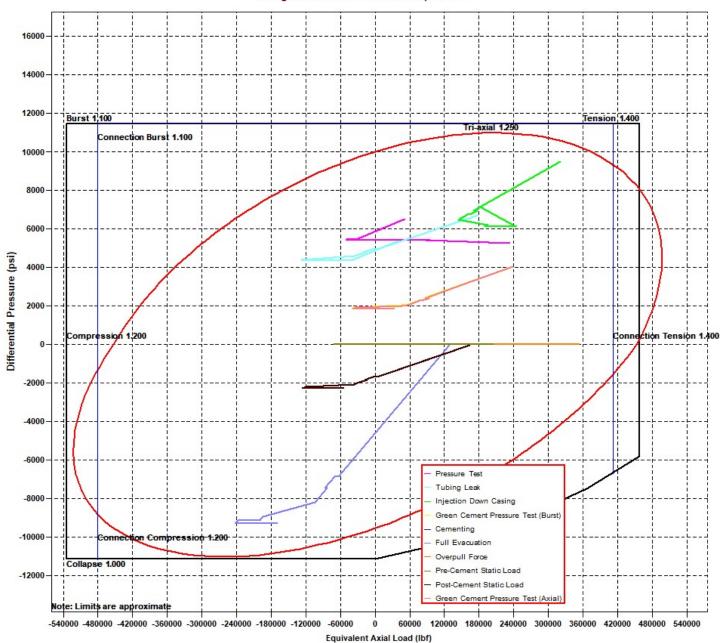










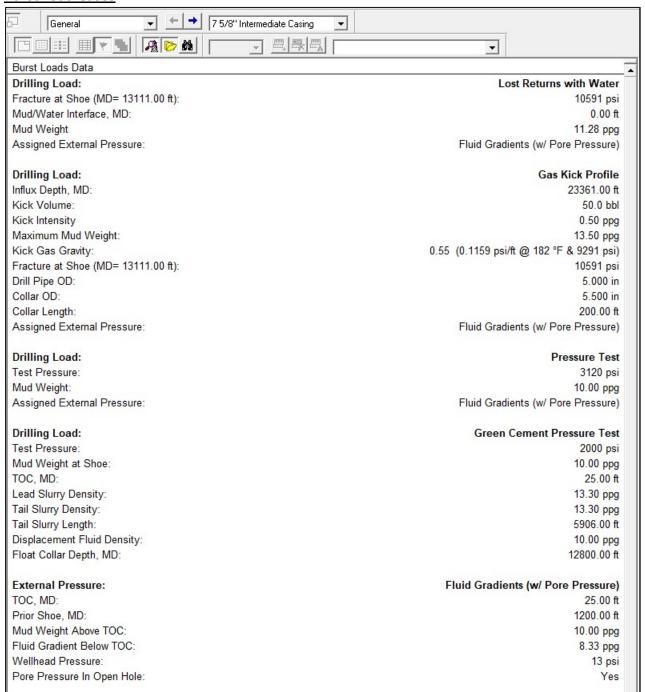






8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

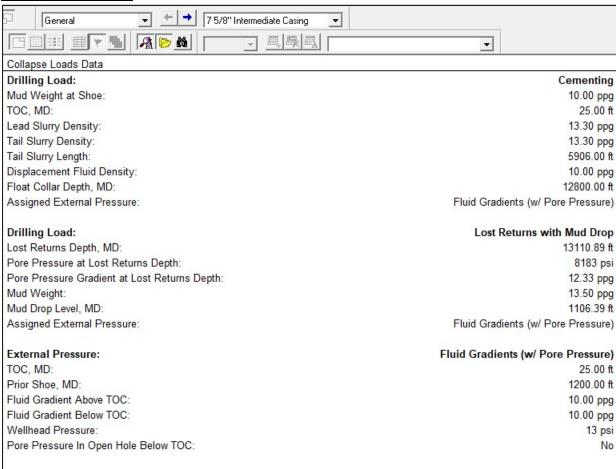
Burst Load Cases



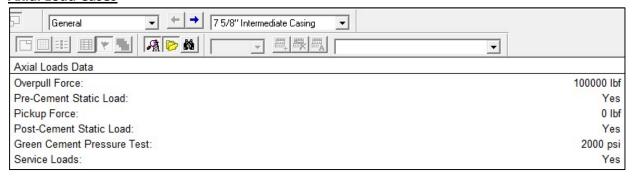




Collapse Load Cases



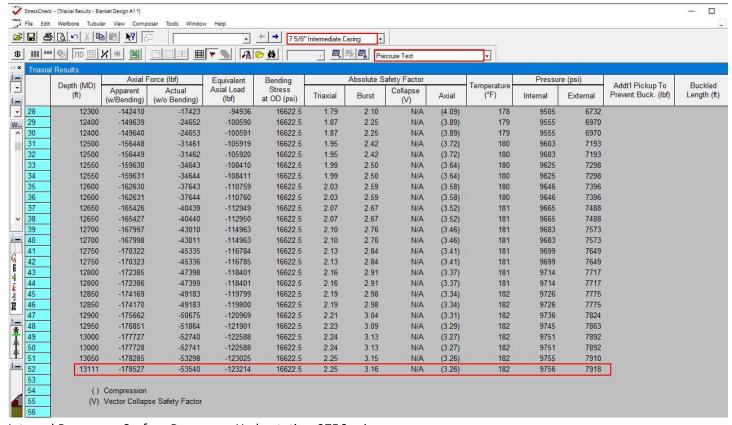
Axial Load Cases







9. Landmark StressCheck Screenshot – Int. Casing Triaxial Results Table (Pressure Test)



Internal Pressure = Surface Pressure + Hydrostatic = 9756 psi External Pressure = Fluid Gradient w/ Pore Pressure = 7918 psi Burst SF = 3.16

NOTE: Specific load case inputs for the pressure test can be seen in **Section 8** above. The test pressure does not exceed 70% of the minimum internal yield.





10. Intermediate Non-API Casing Spec Sheet



Technical Data Sheet

7 5/8" 26.40 lbs/ft. L80HC - Axis HT

Mec	hanica	l Properties			
Minimum Yield Strength	psi.	psi. 80,000			
Maximum Yield Strength	psi.	95,000			
Minimum Tensile Strength	psi.	95,000			
	Dime	nsions			
		Pipe	AXIS HT		
Outside Diameter	in.	7.625	8.500		
Wall Thickness	in.	0.328	020		
Inside Diameter	in.	6.969			
Standard Drift	in.	6.844	6.844		
Alternate Drift	in.	5728	121		
Plain End Weight	lbs/ft.	-	-		
Nominal Linear Weight	lbs/ft.	26.40	100		
	Perfor	тапсе			
		Pipe	AXIS HT		
Minimum Collapse Pressure	psi.	4,320	5 8 3		
Minimum Internal Yield Pressure	psi.	6,020	6,020		
Minimum Pipe Body Yield Strength	lbs.	602 x 1,000	020		
Joint Strength	lbs.	(5)	635 x 1,000		
M	ake-Up	Torques			
		Pipe	AXIS HT		
Optimum Make-Up Torque	ft/lbs.	151	8,000		
Maximum Operational Torque	ft/lbs.	(#)	25,000		

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11. Production Non-API Casing Spec Sheets





Coupling	Pipe Body
Grade: P1104CY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: •
	6th Band: -

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-ICY
Min. Wall Thickness	87.50 %	Pipe Body Drift	API Standard	Туре	Casing
Connection OD Option	MS				

Pipe Body Data

Geometry			
Nominal OD	5.500 in.	Wall Thickness	0.361 in.
Nominal Weight	20 lb/ft	Plain End Weight	19.83 lb/ft
Drift	4.653 in.	OD Tolerance	API
Nominal ID	4.778 in.		

Performance	
Body Yield Strength	729 x1000 lb
Min. Internal Yield Pressure	14,360 psi
SMYS	125,000 psi
Collapse Pressure	12,300 psi

Connection Data

	0.0501
Connection OD	6.050 in
Coupling Length	7.714 in
Connection ID	4.778 in
Make-up Loss	3.775 in
Threads per inch	3.40
Connection OD Option	Ms

Tension Efficiency	100 %
Joint Yield Strength	729 x1000 lb
Internal Pressure Capacity	14,360 psi
Compression Efficiency	100 %
Compression Strength	729 x1000 lb
Max. Allowable Bending	104 °/100 fi
External Pressure Capacity	12,300 psi
Coupling Face Load	273,000 lb

Make-Up Torques	
Minimum	17,000 ft-lb
Optimum	18,000 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	43,000 ft-lb
Yield Torque	51,000 ft-lb
Buck-On	
Minimum	21,600 ft-lb
Maximum	23,100 ft-lb

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 / 0.361 in.
Wedge 461® - 5.5 in. - 0.304 / 0.415 / 0.476 in.
Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the lastest performance data, always visit our website: www.tenaris.com

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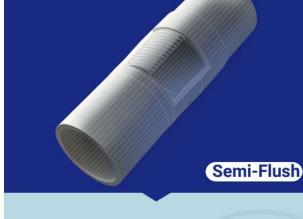


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CONNECTION DATA SHEET





Field Torque Values Make-up Torque (ft-lb) 20,000 MIN 22,500 OPTI 25,000 MAX Torque with Sealability (ft-lb) 36,000 MTS Locked Flank Torque (ft-lb) 4,500 MIN 15,750 MAX (2) MTS: Maximum Torque with Sealability:

PIPE BODY PROPERTIES =

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	API 5CT	
Minimum Yield Strength	110	ksi
Maximum Yield Strength	140	ksi
Minimum Ultimate Tensile Strength	125	ksi
Pipe Body Yield Strength	641	klb
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,100	psi

CONNECTION PROPERTIES

Connection Type	Semi-Pr	remium Integral Semi-F
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,100	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



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DNG/C-UT-LES

Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	API DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	‡VST P110MY	4.653	87.5	DWC/C-HT-IS

PIPE PROPERTIES		
Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield Pressure	14,360	psi
Collapse Pressure	12,090	psi

Connection Type	Semi-Premium T&0	
Connection OD (nom)	6.050	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	89.1%	of pipe
Compression Efficiency	88.0%	of pipe
Internal Pressure Efficiency	86.1%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	649	klt
Parting Load	729	klb
Compression Rating	641	klt
Min. Internal Yield Pressure	12,360	ps
External Pressure Resistance	12,090	psi
Maximum Uniaxial Bend Rating	91.7	°/100 ff
Reference String Length w 1.4 Design Factor	22,890	ft.

FIELD TORQUE VALUES		
Min. Make-up torque	16,600	ft.ll
Opti. Make-up torque	17,950	ft.lt
Max. Make-up torque	19,300	ft.lt
Min. Shoulder Torque	1,660	ft.lt
Max. Shoulder Torque	13,280	ft.lt
Max. Delta Turn	0.200	Turns
†Maximum Operational Torque	23,800	ft.lt
†Maximum Torsional Value (MTV)	26,180	ft.lt

† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material.

‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

"VST = Vallourec Star as the mill source for the pipe, "P110EC" is the grade name"

Need Help? Contact: tech.support@vam-usa.com

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3230
Fax: 713-479-3234
VAM® USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support Email: tech.support@vam-usa.com

DWC Connection Data Sheet Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- 10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

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5M Annluar BOP Variance Request

Per BLM's Memorandum No. NM-2017-008: *Decision and Rationale for a Variance Allowing the Use of a 5M Annular Preventer with a 10M BOP Stack*, Oxy requests to employ a 5M annular with a 10M BOPE stack in the pilot and lateral sections of the well and will ensure that two barriers to flow are maintained at all times. Please see Well Control Plan below.

Oxy Well Control Plan

A. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the >5M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Pilot hole and Lateral sections, 10M requirement

Component	OD	Preventer	RWP
Drillpipe	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
HWDP	4-1/2"-5"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Drill collars and MWD tools	4-3/4" – 5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Mud Motor	4-3/4"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
Production casing	5-1/2"	Lower 3-1/2 - 5-1/2" VBR	10M
		Upper 3-1/2 - 5-1/2" VBR	
ALL	0" - 13-5/8"	Annular	5M
Open-hole	6-3/4"	Blind Rams	10M

VBR = Variable Bore Ram. Compatible range listed in chart.

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the Bottom Hole Assembly (BHA) through the Blowout Preventers (BOP). The pressure at which control is swapped from the annular to another compatible ram will occur when the anticipated pressure is approaching or envisioned to exceed 70% of the 5M annular Rated Working Pressure (RWP) or 3500 PSI.

General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. The Hydraulic Control Remote (HCR) valve and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or expected to reach 70% of the annular RWP during kill operations, crew will reconfirm spacing and swap to the upper pipe ram

General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position)
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram

General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. The HCR and choke will already be in the closed position).
- 5. Confirm shut-in
- 6. Notify tool pusher/company representative
- 7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan.
 - e. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (The HCR and choke will already be in the closed position)
- 3. Confirm shut-in
- 4. Notify tool pusher/company representative
- 5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
- 6. Regroup and identify forward plan

General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drill pipe thru the stack.
 - a. Perform flow check, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram
 - e. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify tool pusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram
 - d. Shut-in using compatible pipe ram. (The HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify tool pusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - iv. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.

- a. Sound alarm (alert crew)
- b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario
- c. If impossible to pick up high enough to pull the string clear of the stack
- d. Stab crossover, make up one joint/stand of drill pipe, and full opening safety valve and close
- e. Space out drill string with tool joint just beneath the upper pipe ram
- f. Shut-in using upper pipe ram. (The HCR and choke will already be in the closed position)
- g. Confirm shut-in
- h. Notify tool pusher/company representative
- i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
- j. Regroup and identify forward plan

BOP Break Testing Request

Oxy requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

BOP break test under the following conditions:

- After a full BOP test is conducted
- When skidding to drill an intermediate section where ICP is set into the third Bone Spring or shallower.
- When skidding to drill a production section that does not penetrate into the third Bone Spring or deeper.

If the kill line is broken prior to skid, two tests will be performed.

- 1) Wellhead flange, co-flex hose, kill line connections and upper pipe rams
- 2) Wellhead flange, HCR valve, check valve, upper pipe rams

If the kill line is not broken prior to skid, only one test will be performed.

1) Wellhead flange, co-flex hose, check valve, upper pipe rams

See supporting information below:

Subject: Request for a Variance Allowing Break Testing of a Blowout Preventer Stack

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads. This practice entails retesting only the connections of the **BOP** stack that have been disconnected during this operation and not a complete **BOP** test.

Background

43 CFR part 3170 Subpart 3172 states that a **BOP** test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) is this requires a complete **BOP** test and not just a test of the affected component. 43 CFR part 3170 Subpart 3172, Section I.D.2. states, "Some situations may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this Order. This situation can be resolved by requesting a variance...". OXY feels the practice of break testing the **BOP** stack is such a situation. Therefore, as per 43 CFR part 3170 Subpart 3172, Section IV., OXY submits this request for the variance.

Supporting Rationale

43 CFR part 3170 Subpart 3172 became effective on December 19, 1988, and has remained the standard for regulating BLM onshore drilling operations for almost 30 years. During this time there have been significant changes in drilling technology. **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 part 3170 Subpart 3172 was originally released. The drilling rig fleet OXY utilizes in New Mexico was built with many modern upgrades. One of which allows the rigs to skid between wells on multi-well pads. A part of this rig package is a hydraulic winch system which safely installs and removes the BOP from the wellhead and carries it during skidding operations. This technology has made break testing a safe and reliable procldure.

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry. 43 CFR part 3170 Subpart 3172 recognized API Recommended Practices (RP) 53 in its original development. API Standard 53,

Blowout Prevention Equipment Systems for Drilling Wells (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the **BOP** stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specifications and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations. BSEE issued new offshore regulations under 30 CFR Part 250, *Oil and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout Preventer Systems and Well Control*, which became effective on July 28, 2016. Section 250.737(d.1) states "Follow the testing requirements of API Standard 53". In addition, Section 250.737(d.8) has adopted language from **API** Standard 53 as it states "Pressure test affected **BOP** components following the disconnection or repair of any well-pressure containment seal in the wellhead or **BOP** stack assembly".

Break testing has been approved by the BLM in the past. See the Appendix for a Sundry Notice that was approved in 2015 by the Farmington Field Office. This approval granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads.

Oxy feels break testing and our current procedures meet the intent of 43 CFR part 3170 Subpart 3172 and often exceed it. We have not seen any evidence that break testing results in more components failing tests than seen on full BOP tests. As skidding operations take place within the 30-day full BOPE test window, the BOP shell and components such as the pipe rams and check valve get tested to the full rated working pressure more often. Therefore, there are more opportunities to ensure components are in good working order. Also, Oxy's standard requires complete BOP tests more often than that of 43 CFR part 3170 Subpart 3172. In addition to function testing the annular at least weekly and the pipe and blind rams on each trip, Oxy also performs a choke drill prior to drilling out every casing shoe. As a crew's training is a vital part of well control, this procedure to simulate step one of the Driller's Method exceeds the requirements of 43 CFR part 3170 Subpart 3172.

Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing (See Appendix for examples)
- 2) OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the 30-day BOP test window
- 3) After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP.
 - > Between the check valve and the kill line
 - ➤ Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - ➤ Between the BOP flange and the wellhead
- 4) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 5) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 8) A shell teit is performed against the upper pipe rams testing all thlee breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10) These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

Notes:

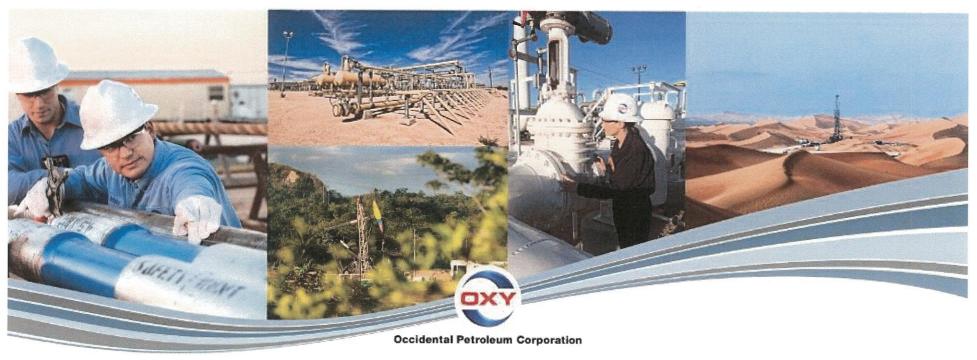
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step 8 above, no further testing of the manifold is done until the next full BOP test.

Summary

OXY requests a variance to allow break testing of the BOP stack when skidding drilling rigs between wells on multi-well pads. API standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry and the BLM. API Standard 53 recognizes break testing as an acceptable practice and BSEE adopted language from this standard into its newly created 30 CFR Part 250 which also supports break testing. Due to this, OXY feels this request meets the intent of 43 CFR part 3170

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

OXY USA Inc. (OXY) requests a variance to allow break testing of the Blowout Preventer (BOP) stack when skidding a drilling rig between wells on multi-well pads

- This practice entails retesting only the connections of the BOP stack that have been disconnected during this operation and not a complete BOP test.
- As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested, no further testing of the manifold is done until the next full BOP test.
- This request is being made as per Section IV of the Onshore Oil and Gas Order (OOGO) No. 2

Rationale for Allowing BOP Break Testing

American Petroleum Institute (API) standards, specifications and recommended practices are considered industry standards and are consistently utilized and referenced by the industry

- (Fourth Edition, November 2012, Addendum 1, July 2016) recognizes break API Standard 53, Blowout Prevention Equipment Systems for Drilling Wells testing as an acceptable practice.
- Specifically, API Standard 53, Section 6.5.3.4.1.b states "Pressure tests on the well control equipment shall be conducted after the disconnection or repair of any pressure containment seal in the BOP stack, choke line, kill line, choke manifold, or wellhead assembly but limited to the affected component."



Rationale for Allowing BOP Break Testing

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

- BSEE issued new offshore regulations in July 2016 under 30 CFR Part 250, Oil Preventer Systems and Well Control. Within these regulations is language and Gas and Sulphur Operations in the Outer Continental Shelf - Blowout adopted from API Standard 53 which also supports break testing.
- components following the disconnection or repair of any well-pressure Specifically, Section 250.737(d.8) states "Pressure test affected BOP containment seal in the wellhead or BOP stack assembly."



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

- The Farmington Field Office approved a Sundry Notice (SN) to allow break testing
- This SN granted permission for the operator to break test when skidding its Aztec 1000 rig on multi-well pads

Oxy feels break testing and our current procedures meet or exceed the intent of OOGO

- BOP shell and components such as the pipe rams and check valve get tested to As skidding operations take place within the 30-day full BOPE test window, the the full rated working pressure more often
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- training is a vital part of well control, this procedure to simulate step one of the - Oxy performs a choke drill prior to drilling out every casing shoe. As a crew's Driller's Method exceeds the requirements of OOGO No. 2



Break Testing Procedures

- 1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing
- OXY would perform BOP break testing on multi-well pads where multiple intermediate sections can be drilled and cased within the full BOP test window 5
- After performing a complete BOP test on the first well and drilling and casing the hole section, three breaks would be made on the BOP. 3
 - Between the check valve and the kill line
- Between the HCR valve and the co-flex hose or the co-flex hose and the manifold
 - Between the BOP flange and the wellhead
- The BOP is then lifted and removed from the wellhead by the hydraulic winch system 4
- After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed 2
- 6) The choke line and kill line are reconnected
- 7) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed

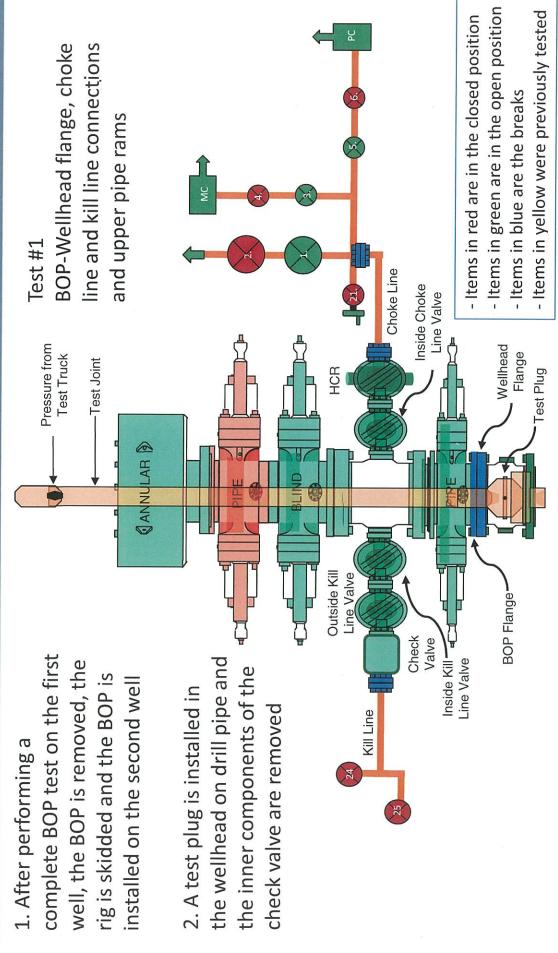


Break Testing Procedures

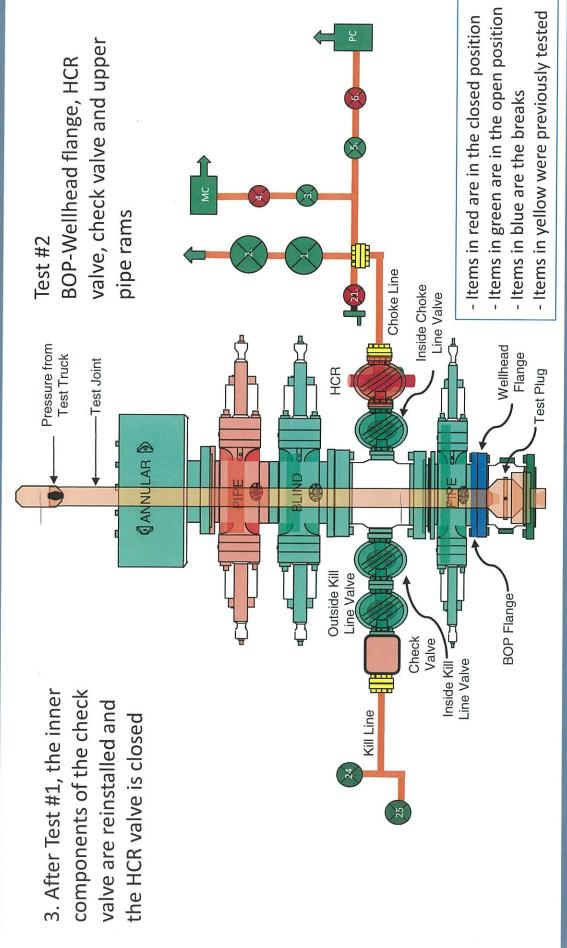
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD or SN (e.g., 5000 psi)
- 11) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 12) If this were a three well pad, the same three breaks on the BOP would be made and steps 4 through 11 would be repeated
- 13) A second break test would only be done if the third hole section could be completed within the 30-day BOP test window
- 14) If a second break test is performed, additional components that were not tested on the first break test will be tested



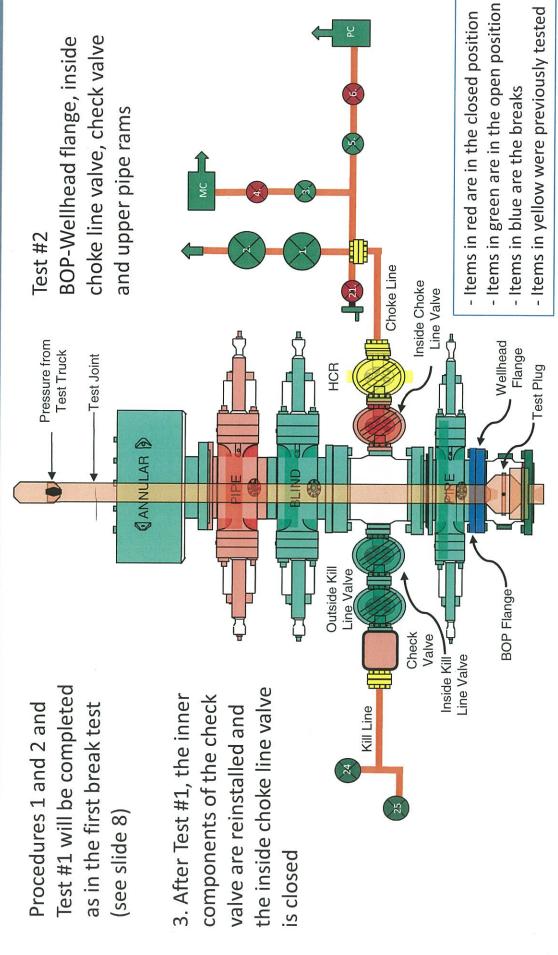
Break Testing Procedures and Tests



Break Testing Procedures and Tests

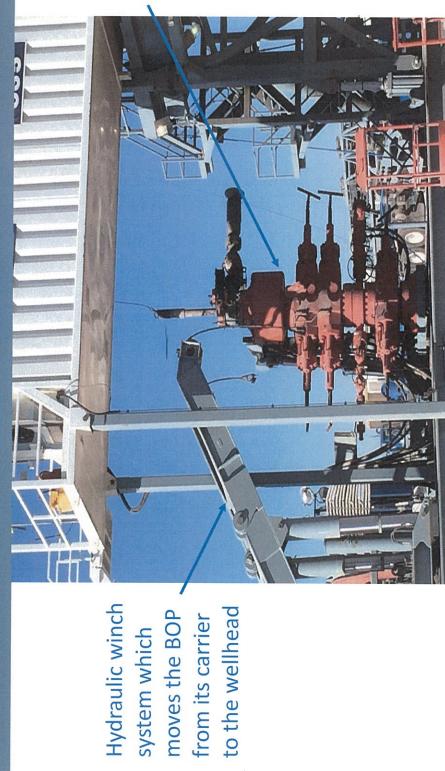


Second Break Testing Procedures and Tests



=

BOP standing in its carrier



Released to Imaging: 9/2/2025 1:34:58 PM

BOP Handling System

12

Wellhead

system moving the BOP over to the wellhead

Hydraulic winch

BOP Handling System

Released to Imaging: 9/2/2025 1:34:58 PM

Summary for Variance Request for Break Testing

- API standards, specifications and recommended practices are considered industry standards
- OOGO No. 2 recognized API Recommended Practices (RP) 53 in its original development
- API Standard 53 recognizes break testing as an acceptable practice
- standards, specifications and best practices in the development of its offshore The Bureau of Safety and Environmental Enforcement has utilized API oil and gas regulations
- API Standard 53 recognizes break testing as an acceptable practice
- OXY feels break testing meets the intent of OOGO No. 2 to protect public health and safety and the environment



Bradenhead Cement CBL Variance Request

Oxy requests permission to adjust the CBL requirement after bradenhead cement jobs, on 7-5/8" intermediate casings, as per the agreement reached in the OXY/BLM meeting on September 5, 2019.

Three string wells:

- CBL will be required on one well per pad
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Four string wells:

- CBL is not required
- If the pumped volume of cement is less than permitted in the APD, BLM will be notified and a CBL may be run
- Echometer will be used after bradenhead cement job to determine TOC before pumping top-out cement

Offline Cementing Variance Request

Oxy requests a variance to cement the 9.625" and/or 7.625" intermediate casing strings offline in accordance to the approved variance, EC Tran 461365.

1. Cement Program

No changes to the cement program will take place for offline cementing.

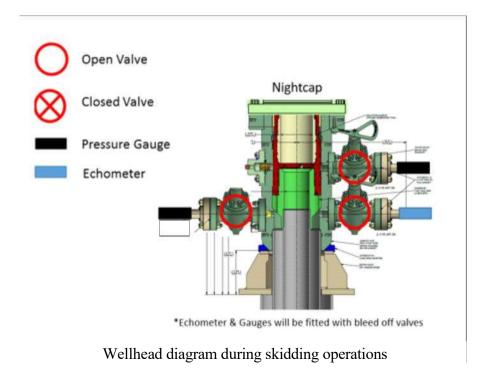
2. Offline Cementing Procedure

The operational sequence will be as follows:

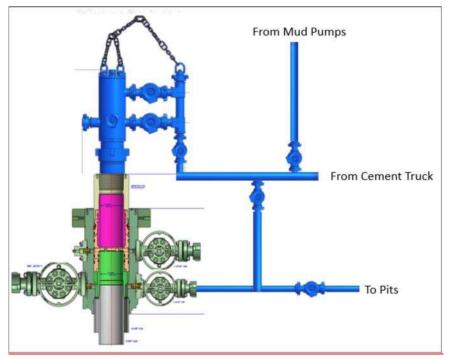
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi

Annular packoff with both external and internal seals





- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a $3^{\rm rd}$ party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

PRD NM DIRECTIONAL PLANS (NAD 1983) Corral Gorge 12_13 Corral Gorge 12-13 Fed Com 51H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

17 September, 2024

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference:

Survey Calculation Method:

Well Corral Gorge 12-13 Fed Com 51H

RKB=25' @ 3131.20ft

Grid

Minimum Curvature

RKB=25' @ 3131.20ft

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Corral Gorge 12_13

 Site Position:
 Northing:
 418,266.21 usft
 Latitude:
 32.149287

 From:
 Map
 Easting:
 662,457.18 usft
 Longitude:
 -103.941976

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Corral Gorge 12-13 Fed Com 51H

Well Position +N/-S 0.00 ft Northing: 418.282.56 usf Latitude: 32.149332 662,499.86 usf +E/-W 0.00 ft Easting: Longitude: -103.941838 **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,106.20 ft

Grid Convergence: 0.21 °

Wellbore Wellbore #1

Magnetics Model Name Sample Date Declination (°) (°) (nT)

Field Strength (nT)

HDGM_FILE 9/16/2019 6.80 59.82 47,843.5000000 HDGM_FILE 9/17/2024 6.37 59.65 47,288.2000000

Design Permitting Plan

Audit Notes:

Version:Phase:PROTOTYPETie On Depth:0.00

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

 -2.60
 0.00
 0.00
 182.88

Plan Survey Tool Program Date 9/17/2024

Depth From Depth To

(ft) Survey (Wellbore) Tool Name Remarks

1 0.00 21,624.73 Permitting Plan (Wellbore #1) B001Mc_MWD+HRGM_R5

MWD+HRGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,285.00	0.00	0.00	4,285.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,284.66	10.00	331.58	5,279.60	76.50	-41.40	1.00	1.00	0.00	331.58	
10,656.67	10.00	331.58	10,570.05	896.64	-485.22	0.00	0.00	0.00	0.00	
11,644.73	90.00	179.71	11,228.45	330.16	-537.02	10.00	8.10	-15.37	-151.51	
21,624.73	90.00	179.71	11,228.45	-9,649.70	-485.85	0.00	0.00	0.00	0.00 F	BHL (Corral Gorge

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

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TVD Reference: MD Reference: North Reference:

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RKB=25' @ 3131.20ft RKB=25' @ 3131.20ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
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700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
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900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
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2 000 00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
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2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
,			,						
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2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,500.00	0.00	0.00	3.500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00			3,800.00				0.00		
,	0.00	0.00	,	0.00	0.00	0.00		0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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	5.15						1.00		0.00
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5,204.00	10.00	331.30	5,218.00	10.50	-41.40	-74.32	1.00	1.00	0.00

Planning Report

Database: Company: Project:

Site:

HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12-13 Fed Com 51H

RKB=25' @ 3131.20ft RKB=25' @ 3131.20ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	10.00	331.58	5,294.70	78.84	-42.67	-76.60	0.00	0.00	0.00
5,400.00 5,500.00	10.00 10.00	331.58 331.58	5,393.18 5,491.67	94.11 109.38	-50.93 -59.19	-91.43 -106.26	0.00 0.00	0.00 0.00	0.00 0.00
5,600.00	10.00	331.58	5,590.15	124.65	-59.19 -67.45	-100.20	0.00	0.00	0.00
5,700.00	10.00	331.58	5,688.63	139.91	-75.71	-135.93	0.00	0.00	0.00
5,800.00	10.00	331.58	5,787.11	155.18	-83.98	-150.76	0.00	0.00	0.00
5,900.00	10.00	331.58	5,885.59	170.45	-92.24	-165.59	0.00	0.00	0.00
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6,100.00	10.00	331.58	6,082.56	200.98	-108.76	-195.26	0.00	0.00	0.00
6,200.00	10.00	331.58	6,181.04	216.25	-117.02	-210.09	0.00	0.00	0.00
6,300.00	10.00	331.58	6,279.52	231.51	-125.28	-224.92	0.00	0.00	0.00
6,400.00	10.00	331.58	6,378.00	246.78	-133.55	-239.75	0.00	0.00	0.00
6,500.00 6,600.00	10.00 10.00	331.58 331.58	6,476.48 6,574.97	262.05 277.31	-141.81 -150.07	-254.59 -269.42	0.00 0.00	0.00 0.00	0.00 0.00
6,700.00	10.00	331.58	6,673.45	292.58	-150.07	-209.42 -284.25	0.00	0.00	0.00
6,800.00	10.00	331.58	6,771.93	307.85	-166.59	-299.08	0.00	0.00	0.00
6,900.00	10.00	331.58	6,870.41	323.11	-174.85	-313.91	0.00	0.00	0.00
7,000.00	10.00	331.58	6,968.89	338.38	-183.12	-328.75	0.00	0.00	0.00
7,100.00	10.00	331.58	7,067.38	353.65	-191.38	-343.58	0.00	0.00	0.00
7,200.00	10.00	331.58	7,165.86	368.92	-199.64	-358.41	0.00	0.00	0.00
7,300.00	10.00	331.58	7,264.34	384.18	-207.90	-373.24	0.00	0.00	0.00
7,400.00	10.00	331.58	7,362.82	399.45	-216.16	-388.07	0.00	0.00	0.00
7,500.00	10.00	331.58	7,461.30	414.72	-224.42	-402.91	0.00	0.00	0.00
7,600.00	10.00	331.58	7,559.78	429.98	-232.69	-417.74	0.00	0.00	0.00
7,700.00	10.00	331.58	7,658.27	445.25	-240.95	-432.57	0.00	0.00	0.00
7,800.00	10.00	331.58	7,756.75	460.52	-249.21	-447.40	0.00	0.00	0.00
7,900.00 8,000.00	10.00 10.00	331.58 331.58	7,855.23 7,953.71	475.78 491.05	-257.47 -265.73	-462.24 -477.07	0.00 0.00	0.00 0.00	0.00 0.00
8,000.00	10.00	331.58	8,052.19	506.32	-205.73 -273.99	-477.07 -491.90	0.00	0.00	0.00
8,200.00	10.00	331.58	8,150.68	521.58	-282.26	-506.73	0.00	0.00	0.00
8,300.00	10.00	331.58	8,249.16	536.85	-290.52	-521.56	0.00	0.00	0.00
8,400.00	10.00	331.58	8,347.64	552.12	-298.78	-536.40	0.00	0.00	0.00
8,500.00	10.00	331.58	8,446.12	567.39	-307.04	-551.23	0.00	0.00	0.00
8,600.00	10.00	331.58	8,544.60	582.65	-315.30	-566.06	0.00	0.00	0.00
8,700.00	10.00	331.58	8,643.08	597.92	-323.56	-580.89	0.00	0.00	0.00
8,800.00	10.00	331.58	8,741.57	613.19	-331.83	-595.72	0.00	0.00	0.00
8,900.00	10.00	331.58	8,840.05	628.45	-340.09	-610.56	0.00	0.00	0.00
9,000.00 9,100.00	10.00	331.58	8,938.53	643.72	-348.35	-625.39	0.00	0.00	0.00
9,100.00	10.00 10.00	331.58 331.58	9,037.01 9,135.49	658.99 674.25	-356.61 -364.87	-640.22 -655.05	0.00 0.00	0.00 0.00	0.00 0.00
9,300.00	10.00	331.58	9,233.98	689.52	-373.13	-669.89	0.00	0.00	0.00
9,400.00	10.00	331.58	9,233.98	704.79	-373.13 -381.40	-669.89 -684.72	0.00	0.00	0.00
9,500.00	10.00	331.58	9,430.94	720.05	-389.66	-699.55	0.00	0.00	0.00
9,600.00	10.00	331.58	9,529.42	735.32	-397.92	-714.38	0.00	0.00	0.00
9,700.00	10.00	331.58	9,627.90	750.59	-406.18	-729.21	0.00	0.00	0.00
9,800.00	10.00	331.58	9,726.38	765.85	-414.44	-744.05	0.00	0.00	0.00
9,900.00	10.00	331.58	9,824.87	781.12	-422.70	-758.88	0.00	0.00	0.00
10,000.00	10.00	331.58	9,923.35	796.39	-430.97	-773.71	0.00	0.00	0.00
10,100.00 10,200.00	10.00 10.00	331.58 331.58	10,021.83 10,120.31	811.66 826.92	-439.23 -447.49	-788.54 -803.37	0.00 0.00	0.00 0.00	0.00 0.00
10,300.00	10.00	331.58	10,218.79	842.19 857.46	-455.75 464.01	-818.21	0.00	0.00	0.00
10,400.00 10,500.00	10.00 10.00	331.58 331.58	10,317.28 10,415.76	857.46 872.72	-464.01 -472.28	-833.04 -847.87	0.00 0.00	0.00 0.00	0.00 0.00
10,600.00	10.00	331.58	10,415.76	887.99	-472.20 -480.54	-862.70	0.00	0.00	0.00
10,656.67	10.00	331.58	10,570.05	896.64	-485.22	-871.11	0.00	0.00	0.00
.5,555.51			,						

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Corral Gorge 12-13 Fed Com 51H

RKB=25' @ 3131.20ft RKB=25' @ 3131.20ft

Grid

elibore: sign:	Permitting Pla	an							
anned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
10,700.00	6.52	313.08	10,612.93	901.63	-488.81	-875.91	10.00	-8.02	-42.70
10,800.00	7.28	220.26	10,712.46	900.67	-497.07	-874.54	10.00	0.76	-92.81
10,900.00	16.22	196.30	10,810.31	882.38	-505.11	-855.87	10.00	8.94	-23.96
11,000.00	25.94	189.54	10,903.52	847.32	-512.68	-820.47	10.00	9.72	-6.76
11,100.00	35.80	186.32	10,989.26	796.56	-519.54	-769.42	10.00	9.87	-3.22
11,200.00	45.72	184.35	11,064.91	731.63	-525.49	-704.28	10.00	9.92	-1.97
11,300.00	55.66	182.96	11,128.18	654.51	-530.36	-627.01	10.00	9.94	-1.39
11,400.00	65.62	181.86	11,177.15	567.54	-533.98	-539.97	10.00	9.95	-1.10
11,500.00	75.58	180.93	11,210.33	473.37	-536.25	-445.80	10.00	9.96	-0.93
11,600.00	85.54	180.08	11,226.71	374.85	-537.11	-347.37	10.00	9.96	-0.85
11,644.73	90.00	179.71	11,228.45	330.16	-537.02	-302.74	10.00	9.97	-0.83
11,700.00	90.00	179.71	11,228.45	274.89	-536.74	-247.56	0.00	0.00	0.00
11,800.00	90.00	179.71	11,228.45	174.90	-536.23	-147.71	0.00	0.00	0.00
11,900.00	90.00	179.71	11,228.45	74.90	-535.72	-47.86	0.00	0.00	0.00
12,000.00	90.00	179.71	11,228.45	-25.10	-535.20	51.98	0.00	0.00	0.00
12,100.00	90.00	179.71	11,228.45	-125.10	-534.69	151.83	0.00	0.00	0.00
12,200.00	90.00	179.71	11,228.45	-225.10	-534.18	251.68	0.00	0.00	0.00
12,300.00	90.00	179.71	11,228.45	-325.10	-533.66	351.52	0.00	0.00	0.00
12,400.00	90.00	179.71	11,228.45	-425.10	-533.15	451.37	0.00	0.00	0.00
12,500.00	90.00	179.71	11,228.45	-525.10	-532.64	551.21	0.00	0.00	0.00
12,600.00	90.00	179.71	11,228.45	-625.09	-532.13	651.06	0.00	0.00	0.00
12,700.00	90.00	179.71	11,228.45	-725.09	-531.61	750.91	0.00	0.00	0.00
12,800.00	90.00	179.71	11,228.45	-825.09	-531.10	850.75	0.00	0.00	0.00
12,900.00	90.00	179.71	11,228.45	-925.09	-530.59	950.60	0.00	0.00	0.00
13,000.00	90.00	179.71	11,228.45	-1,025.09	-530.07	1,050.45	0.00	0.00	0.00
13,100.00	90.00	179.71	11,228.45	-1,125.09	-529.56	1,150.29	0.00	0.00	0.00
13,200.00	90.00	179.71	11,228.45	-1,225.09	-529.05	1,250.14	0.00	0.00	0.00
13,300.00	90.00	179.71	11,228.45	-1,325.08	-528.54	1,349.99	0.00	0.00	0.00
13,400.00	90.00	179.71	11,228.45	-1,425.08	-528.02	1,449.83	0.00	0.00	0.00
13,500.00	90.00	179.71	11,228.45	-1,525.08	-527.51	1,549.68	0.00	0.00	0.00
13,600.00	90.00	179.71	11,228.45	-1,625.08	-527.00	1,649.52	0.00	0.00	0.00
13,700.00	90.00	179.71	11,228.45	-1,725.08	-526.48	1,749.37	0.00	0.00	0.00
13,800.00	90.00	179.71	11,228.45	-1,825.08	-525.97	1,849.22	0.00	0.00	0.00
13,900.00	90.00	179.71	11,228.45	-1,925.08	-525.46	1,949.06	0.00	0.00	0.00
14,000.00	90.00	179.71	11,228.45	-2,025.08	-524.95	2,048.91	0.00	0.00	0.00
14,100.00	90.00	179.71	11,228.45	-2,125.07	-524.43	2,148.76	0.00	0.00	0.00
14,200.00	90.00	179.71	11,228.45	-2,225.07	-523.92	2,248.60	0.00	0.00	0.00
14,300.00	90.00	179.71	11,228.45	-2,325.07	-523.41	2,348.45	0.00	0.00	0.00
14,400.00	90.00	179.71	11,228.45	-2,425.07	-522.90	2,448.30	0.00	0.00	0.00
14,500.00	90.00	179.71	11,228.45	-2,525.07	-522.38	2,548.14	0.00	0.00	0.00
14,600.00	90.00	179.71	11,228.45	-2,625.07	-521.87	2,647.99	0.00	0.00	0.00
14,700.00	90.00	179.71	11,228.45	-2,725.07	-521.36	2,747.84	0.00	0.00	0.00
14,800.00	90.00	179.71	11,228.45	-2,825.06	-520.84	2,847.68	0.00	0.00	0.00
14,900.00	90.00	179.71	11,228.45	-2,925.06	-520.33	2,947.53	0.00	0.00	0.00
15,000.00	90.00	179.71	11,228.45	-3,025.06	-519.82	3,047.37	0.00	0.00	0.00
15,100.00	90.00	179.71	11,228.45	-3,125.06	-519.31	3,147.22	0.00	0.00	0.00
15,200.00	90.00	179.71	11,228.45	-3,225.06	-518.79	3,247.07	0.00	0.00	0.00
15,300.00	90.00	179.71	11,228.45	-3,325.06	-518.28	3,346.91	0.00	0.00	0.00
15,400.00	90.00	179.71	11,228.45	-3,425.06	-517.77	3,446.76	0.00	0.00	0.00
15,500.00	90.00	179.71	11,228.45	-3,525.06	-517.25	3,546.61	0.00	0.00	0.00
15,600.00	90.00	179.71	11,228.45	-3,625.05	-516.74	3,646.45	0.00	0.00	0.00
15,700.00	90.00	179.71	11,228.45	-3,725.05	-516.23	3,746.30	0.00	0.00	0.00
15,800.00	90.00	179.71	11,228.45	-3,825.05	-515.72	3,846.15	0.00	0.00	0.00
15,900.00	90.00	179.71	11,228.45	-3,925.05	-515.20	3,945.99	0.00	0.00	0.00
16,000.00	90.00	179.71	11,228.45	-4,025.05	-514.69	4,045.84	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12-13 Fed Com 51H

RKB=25' @ 3131.20ft RKB=25' @ 3131.20ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.00	179.71	11,228.45	-4,125.05	-514.18	4,145.68	0.00	0.00	0.00
16,200.00	90.00	179.71	11,228.45	-4,225.05	-513.66	4,245.53	0.00	0.00	0.00
16,300.00	90.00	179.71	11,228.45	-4,325.05	-513.15	4,345.38	0.00	0.00	0.00
16,400.00	90.00	179.71	11,228.45	-4,425.04	-512.64	4,445.22	0.00	0.00	0.00
16,500.00	90.00	179.71	11,228.45	-4,525.04	-512.13	4,545.07	0.00	0.00	0.00
16,600.00	90.00	179.71	11,228.45	-4,625.04	-511.61	4,644.92	0.00	0.00	0.00
16,700.00	90.00	179.71	11,228.45	-4,725.04	-511.10	4,744.76	0.00	0.00	0.00
16,800.00	90.00	179.71	11,228.45	-4,825.04	-510.59	4,844.61	0.00	0.00	0.00
16,900.00	90.00	179.71	11,228.45	-4,925.04	-510.08	4,944.46	0.00	0.00	0.00
17,000.00	90.00	179.71	11,228.45	-5,025.04	-509.56	5,044.30	0.00	0.00	0.00
17,100.00	90.00	179.71	11,228.45	-5,125.03	-509.05	5,144.15	0.00	0.00	0.00
17,200.00	90.00	179.71	11,228.45	-5,225.03	-508.54	5,244.00	0.00	0.00	0.00
17,300.00	90.00	179.71	11,228.45	-5,325.03	-508.02	5,343.84	0.00	0.00	0.00
17,400.00	90.00	179.71	11,228.45	-5,425.03	-507.51	5,443.69	0.00	0.00	0.00
17,500.00	90.00	179.71	11,228.45	-5,525.03	-507.00	5,543.53	0.00	0.00	0.00
17,600.00	90.00	179.71	11,228.45	-5,625.03	-506.49	5,643.38	0.00	0.00	0.00
17,700.00	90.00	179.71	11,228.45	-5,725.03	-505.97	5,743.23	0.00	0.00	0.00
17,800.00	90.00	179.71	11,228.45	-5,825.03	-505.46	5,843.07	0.00	0.00	0.00
17,900.00	90.00	179.71	11,228.45	-5,925.02	-504.95	5,942.92	0.00	0.00	0.00
18,000.00	90.00	179.71	11,228.45	-6,025.02	-504.43	6,042.77	0.00	0.00	0.00
18,100.00	90.00	179.71	11,228.45	-6,125.02	-503.92	6,142.61	0.00	0.00	0.00
18,200.00	90.00	179.71	11,228.45	-6,225.02	-503.41	6,242.46	0.00	0.00	0.00
18,300.00	90.00	179.71	11,228.45	-6,325.02	-502.90	6,342.31	0.00	0.00	0.00
18,400.00	90.00	179.71	11,228.45	-6,425.02	-502.38	6,442.15	0.00	0.00	0.00
18,500.00	90.00	179.71	11,228.45	-6,525.02	-501.87	6,542.00	0.00	0.00	0.00
18,600.00	90.00	179.71	11,228.45	-6,625.02	-501.36	6,641.84	0.00	0.00	0.00
18,700.00	90.00	179.71	11,228.45	-6,725.01	-500.84	6,741.69	0.00	0.00	0.00
18,800.00	90.00	179.71	11,228.45	-6,825.01	-500.33	6,841.54	0.00	0.00	0.00
18,900.00	90.00	179.71	11,228.45	-6,925.01	-499.82	6,941.38	0.00	0.00	0.00
19,000.00	90.00	179.71	11,228.45	-7,025.01	-499.31	7,041.23	0.00	0.00	0.00
19,100.00	90.00	179.71	11,228.45	-7,125.01	-498.79	7,141.08	0.00	0.00	0.00
19,200.00	90.00	179.71	11,228.45	-7,225.01	-498.28	7,240.92	0.00	0.00	0.00
19,300.00	90.00	179.71	11,228.45	-7,325.01	-497.77	7,340.77	0.00	0.00	0.00
19,400.00	90.00	179.71	11,228.45	-7,425.00	-497.26	7,440.62	0.00	0.00	0.00
19,500.00	90.00	179.71	11,228.45	-7,525.00	-496.74	7,540.46	0.00	0.00	0.00
19,600.00	90.00	179.71	11,228.45	-7,625.00	-496.23	7,640.31	0.00	0.00	0.00
19,700.00	90.00	179.71	11,228.45	-7,725.00	-495.72	7,740.15	0.00	0.00	0.00
19,800.00	90.00	179.71	11,228.45	-7,825.00	-495.20	7,840.00	0.00	0.00	0.00
19,900.00	90.00	179.71	11,228.45	-7,925.00	-494.69	7,939.85	0.00	0.00	0.00
20,000.00	90.00	179.71	11,228.45	-8,025.00	-494.18	8,039.69	0.00	0.00	0.00
20,100.00	90.00	179.71	11,228.45	-8,125.00	-493.67	8,139.54	0.00	0.00	0.00
20,200.00	90.00	179.71	11,228.45	-8,224.99	-493.15	8,239.39	0.00	0.00	0.00
20,300.00	90.00	179.71	11,228.45	-8,324.99	-492.64	8,339.23	0.00	0.00	0.00
20,400.00	90.00	179.71	11,228.45	-8,424.99	-492.13	8,439.08	0.00	0.00	0.00
20,500.00	90.00	179.71	11,228.45	-8,524.99	-491.61	8,538.93	0.00	0.00	0.00
20,600.00	90.00	179.71	11,228.45	-8,624.99	-491.10	8,638.77	0.00	0.00	0.00
20,700.00	90.00	179.71	11,228.45	-8,724.99	-490.59	8,738.62	0.00	0.00	0.00
20,800.00	90.00	179.71	11,228.45	-8,824.99	-490.08	8,838.47	0.00	0.00	0.00
20,900.00	90.00	179.71	11,228.45	-8,924.98	-489.56	8,938.31	0.00	0.00	0.00
21,000.00	90.00	179.71	11,228.45	-9,024.98	-489.05	9,038.16	0.00	0.00	0.00
21,100.00	90.00	179.71	11,228.45	-9,124.98	-488.54	9,138.00	0.00	0.00	0.00
21,200.00	90.00	179.71	11,228.45	-9,224.98	-488.02	9,237.85	0.00	0.00	0.00
21,300.00	90.00	179.71	11,228.45	-9,324.98	-487.51	9,337.70	0.00	0.00	0.00
21,400.00	90.00	179.71	11,228.45	-9,424.98	-487.00	9,437.54	0.00	0.00	0.00
21,500.00	90.00	179.71	11,228.45	-9,524.98	-486.49	9,537.39	0.00	0.00	0.00

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Corral Gorge 12_13

Well: Corral Gorge 12-13 Fed Com 51H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Corral Gorge 12-13 Fed Com 51H

RKB=25' @ 3131.20ft RKB=25' @ 3131.20ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,600.00 21,624.73	90.00 90.00	179.71 179.71	11,228.45 11,228.45	-9,624.98 -9,649.70	-485.97 -485.85	9,637.24 9,661.93	0.00 0.00	0.00 0.00	0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Corral Gorge - plan misses targe - Point	0.00 t center by 10	0.00 053.17ft at 0.	0.00 .00ft MD (0.	904.15 00 TVD, 0.00	-540.07 N, 0.00 E)	419,186.64	661,959.83	32.151822	-103.943572
PBHL (Corral Gorge - plan hits target ce - Point	0.00 enter	0.00	11,228.45	-9,649.70	-485.85	408,633.59	662,014.05	32.122813	-103.943520
FTP (Corral Gorge - plan misses targe - Point	0.00 t center by 20		11,228.45 209.70ft MD	854.16 (11071.62 T	-539.71 VD, 724.65 N	419,136.65 , -526.02 E)	661,960.19	32.151685	-103.943571

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	376.20	376.20	RUSTLER			
	775.20	775.20	SALADO			
	1,750.20	1,750.20	CASTILE			
	3,295.20	3,295.20	BELL CANYON			
	3,304.20	3,304.20	DELAWARE			
	4,198.20	4,198.20	CHERRY CANYON			
	5,572.64	5,563.20	BRUSHY CANYON			
	7,113.02	7,080.20	BONE SPRING			
	8,050.25	8,003.20	BONE SPRING 1ST			
	8,915.39	8,855.20	BONE SPRING 2ND			
	10,036.40	9,959.20	BONE SPRING 3RD			
	10,355.25	10,273.20	WOLFCAMP			
	10,502.48	10,418.20	WOLFCAMP A			

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
4,285.0	4,285.00	0.00	0.00	Build 1°/100'
5,284.60	5,279.60	76.50	-41.40	Hold 10° Tangent
10,656.6	7 10,570.05	896.64	-485.22	KOP, Build & Turn 10°/100'
11,644.73	3 11,228.45	330.16	-537.02	Landing Point
21,624.73	3 11,228.45	-9,649.70	-485.85	TD at 21624.73' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC.

WELL NAME & NO.: CORRAL GEORGE 12-13 FEDERAL COM 51H

LOCATION: SEC12 T25S R29E - NMP

COUNTY: Eddy County, New Mexico

Create COAs

H_2S	Cave / Karst	Waste Prevention Rule					
Present	Low	Waste Minimization Plan					
Potash	R-111-Q	Design					
None							
Wellhead	Casi 3-Strin						
Multibowl	☐ Liner ☐ Fluid Filled ☐ Casing Clearance						
✓ Flex Hose	Cemer	nting					
✓ Break Testing	☐ DV Tool	nhead Fchometer					
₩ bleak resulig	✓ Offline Cement ☐ Open A	Annulus					
	Special Requirements						
☐ Capitan Reef	☐ Water Disposal	▼ COM □ Unit					

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

WELL APPROVED FOR THE TWO "A" BLANKET DESIGNS (A1 AND A2.) PARAMETERS WITHIN BOUNDARY CONDITIONS.

DESIGN A1:

- 1. The **10-3/4** inch surface casing shall be set at approximately **715** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - 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 **8 hours** or **500 pounds compressive strength**, whichever is greater (including 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 minimum required fill of cement behind the **7-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon.
- b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is at least 200 feet into previous casing string. Operator shall provide method of verification.
 - If cement does not circulate to surface on the previous casing, this string must come to surface. BLM must be notified with updated cementing and ECD monitoring plans.

DESIGN A2:

- 1. The 13-3/8 inch surface casing shall be set at approximately 715 feet (a minimum of 70' into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - 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 **8 hours** or **500 pounds compressive strength**, whichever is greater (including 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 minimum required fill of cement behind the **7-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

Bradenhead Squeeze: Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon.
- b. **Second stage:** Operator to squeeze and top-out. Cement to meet requirements listed for this casing string. If cement does not circulate see B.1.a, c-d above.

Operator has proposed to pump down **Surface X Intermediate 1** annulus. Submit results to the BLM. If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is at least 200 feet into previous casing string. Operator shall provide method of verification.
 - If cement does not circulate to surface on the previous casing, this string must come to surface. BLM must be notified with updated cementing and ECD monitoring plans.

C. PRESSURE CONTROL

- 1. Operator has proposed a multi-bowl wellhead assembly. 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 and below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) annular which shall be tested to 3500 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 43 CFR 3172 must be followed.
- 2. 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).

BOPE Break Testing Variance

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

- BOPE Break Testing is ONLY permitted for hole sections with 5M MASP or less.
- The break test should involve a shell test that includes testing the upper pipe rams as proposed.
- Variance only pertains to the hole-sections in and shallower than the Wolfcamp formation. Break testing is NOT allowed when planning to penetrate the Penn group.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle in accordance with API STD 53.
- Any well control event while drilling require notification to the BLM Petroleum Engineer.
- A full BOPE test is required prior to drilling the first intermediate section.
- If a hole section tends to show more background gas than normal, please notify BLM Engineer prior to proceeding with break testing on the next well.
- The BLM PET is to be contacted 4 hours prior to BOPE tests.
 - Eddy County Petroleum Engineering Inspection Staff: (575) 361-2822
 - Lea County Petroleum Engineering Inspection Staff: (575) 689-5981
- 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 43 CFR 3172. Function test is NOT adequate when repairs or replacement of BOPE is needed. Function test is NOT adequate in the event of repairs or replacements.

• If in the event break testing is not utilized, then a full BOPE test would be conducted.

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 43 CFR 3171 and 3172.
- 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.

Offline Cementing

Offline cementing has been approved for **all hole sections**, **excluding production**. Contact the BLM prior to the commencement of any offline cementing procedure.

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)

Contact Lea County Petroleum Engineering Inspection Staff:

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822

- 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
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. 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.
 - iii. BOP/BOPE test to be conducted per **43 CFR 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. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q 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 3172.
- 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:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. 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.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. 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.
 - i. 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).
 - ii. 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.)

- iii. 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 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 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. 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.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. 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.
- vii. 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.
- viii. 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 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.

KPI 7/17/2025

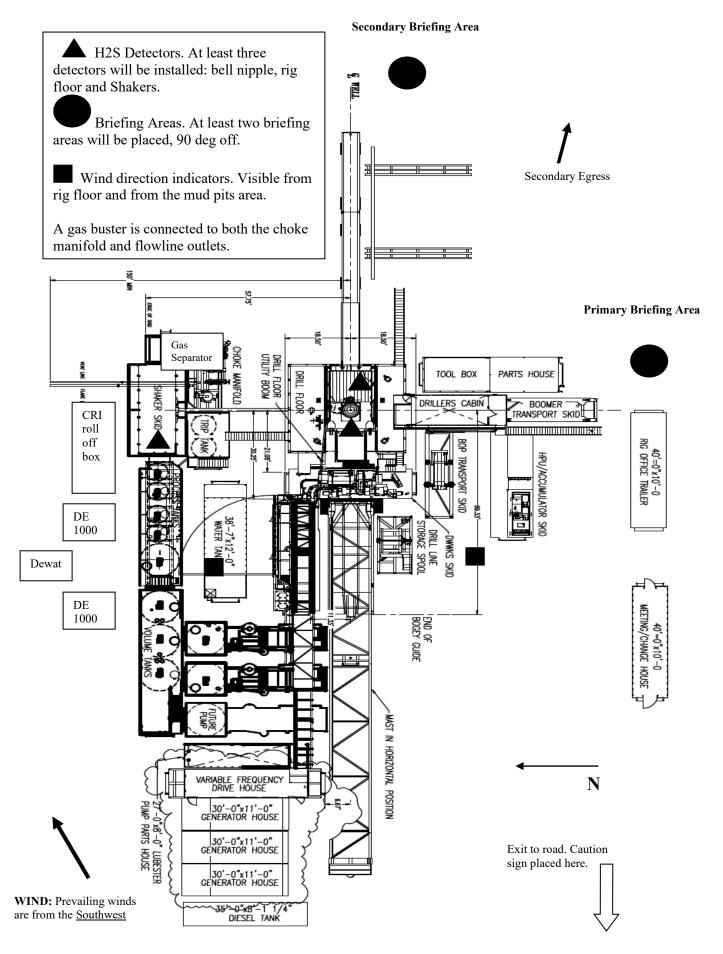


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

Open drill site. No homes or buildings are near the proposed location.

1. Escape

Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction, then a secondary egress route should be taken.





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

This contingency plan establishes guidelines for the public, all company employees, and contract employees who's work activities may involve exposure to hydrogen sulfide (H2S) gas.

While drilling this well, it is possible to encounter H2S bearing formations. At all times, the first barrier to control H2S emissions will be the drilling fluid, which will have a density high enough to control influx.

Objective

- 1. Provide an immediate and predetermined response plan to any condition when H2S is detected. All H2S detections in excess of 10 parts per million (ppm) concentration are considered an Emergency.
- 2. Prevent any and all accidents, and prevent the uncontrolled release of hydrogen sulfide into the atmosphere.
- 3. Provide proper evacuation procedures to cope with emergencies.
- 4. Provide immediate and adequate medical attention should an injury occur.

Discussion

Implementation: This plan with all details is to be fully implemented

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that

must be adhered to prior to drilling.

Drilling emergency call lists: Included are the telephone numbers of all persons to

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

Public safety: Public safety personnel will be made aware of any

potential evacuation and any additional support

needed.

Check lists: Status check lists and procedural check lists have been

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

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

- 1. The hazards and characteristics of H2S.
- 2. Proper use and maintenance of personal protective equipment and life support systems.
- 3. H2S detection.
- 4. Proper use of H2S detectors, alarms, warning systems, briefing areas, evacuation procedures and prevailing winds.
- 5. Proper techniques for first aid and rescue procedures.
- 6. Physical effects of hydrogen sulfide on the human body.
- 7. Toxicity of hydrogen sulfide and sulfur dioxide.
- 8. Use of SCBA and supplied air equipment.
- 9. First aid and artificial respiration.
- 10. Emergency rescue.

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

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

H2S training refresher must have been taken within one year prior to drilling the well. Specifics on the well to be drilled will be discussed during the pre-spud meeting. H2S and well control (choke) drills will be performed while drilling the well, at least on a weekly basis. This plan shall be available in the well site. All personnel will be required to carry the documentation proving that the H2S training has been taken.

Service company and visiting personnel

- A. Each service company that will be on this well will be notified if the zone contains H2S.
- B. Each service company must provide for the training and equipment of their employees before they arrive at the well site.
- C. Each service company will be expected to attend a well site

Emergency Equipment Requirements

1. Well control equipment

The well shall have hydraulic BOP equipment for the anticipated pressures. Equipment is to be tested on installation and follow Oxy Well Control standard, as well as 43 CFR part 3170 Subpart 3172.

Special control equipment:

- A. Hydraulic BOP equipment with remote control on ground. Remotely operated choke.
- B. Rotating head
- C. Gas buster equipment shall be installed before drilling out of surface pipe.

2. <u>Protective equipment for personnel</u>

- A. Four (4) 30-minute positive pressure air packs (2 at each briefing area) on location.
- B. Adequate fire extinguishers shall be located at strategic locations.
- C. Radio / cell telephone communication will be available at the rig.
 - Rig floor and trailers.
 - Vehicle.

3. Hydrogen sulfide sensors and alarms

- A. H2S sensor with alarms will be located on the rig floor, at the bell nipple, and at the flow line. These monitors will be set to alarm at 10 ppm with strobe light, and audible alarm.
- B. Hand operated detectors with tubes.
- C. H2S monitor tester (to be provided by contract Safety Company.)
- D. There shall be one combustible gas detector on location at all times.

4. <u>Visual Warning Systems</u>

A. One sign located at each location entrance with the following language:

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

Wind sock – wind streamers:

- A. One 36" (in length) wind sock located at protection center, at height visible from rig floor.
- B. One 36" (in length) wind sock located at height visible from pit areas.

Condition flags

A. One each condition flag to be displayed to denote conditions.

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green – normal conditions
yellow – potential danger
red – danger, H2S present
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B. Condition flag shall be posted at each location sign entrance.

5. <u>Mud Program</u>

The mud program is designed to minimize the risk of having H2S and other formation fluids at surface. Proper mud weight and safe drilling practices will be applied. H2S scavengers will be used to minimize the hazards while drilling. Below is a summary of the drilling program.

Mud inspection devices:

Garrett gas train or hatch tester for inspection of sulfide concentration in mud system.

6. <u>Metallurgy</u>

- A. Drill string, casing, tubing, wellhead, blowout preventers, drilling spools or adapters, kill lines, choke manifold, lines and valves shall be suitable for the H2S service.
- B. All the elastomers, packing, seals and ring gaskets shall be suitable for H2S service.

7. Well Testing

No drill stem test will be performed on this well.

8. Evacuation plan

Evacuation routes should be established prior to well spud for each well and discussed with all rig personnel.

9. <u>Designated area</u>

- A. Parking and visitor area: all vehicles are to be parked at a predetermined safe distance from the wellhead.
- B. There will be a designated smoking area.
- C. Two briefing areas on either side of the location at the maximum allowable distance from the well bore so they offset prevailing winds perpendicularly, or at a 45-degree angle if wind direction tends to shift in the area.

Emergency procedures

- A. In the event of any evidence of H2S level above 10 ppm, take the following steps:
 - 1. The Driller will pick up off bottom, shut down the pumps, slow down the pipe rotation.
 - 2. Secure and don escape breathing equipment, report to the upwind designated safe briefing / muster area.
 - 3. All personnel on location will be accounted for and emergency search should begin for any missing, the Buddy System will be implemented.
 - 4. Order non-essential personnel to leave the well site, order all essential personnel out of the danger zone and upwind to the nearest designated safe briefing / muster area.
 - 5. Entrance to the location will be secured to a higher level than our usual "Meet and Greet" requirement, and the proper condition flag will be displayed at the entrance to the location.
 - 6. Take steps to determine if the H2S level can be corrected or suppressed and, if so, proceed as required.

B. If uncontrollable conditions occur:

1. Take steps to protect and/or remove any public in the down-wind area from the rig – partial evacuation and isolation. Notify necessary public safety personnel and appropriate regulatory entities (i.e. BLM) of the situation.

- 2. Remove all personnel to the nearest upwind designated safe briefing / muster area or off location.
- 3. Notify public safety personnel of safe briefing / muster area.
- 4. An assigned crew member will blockade the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- 5. Proceed with best plan (at the time) to regain control of the well. Maintain tight security and safety procedures.

C. Responsibility:

- 1. Designated personnel.
 - a. Shall be responsible for the total implementation of this plan.
 - b. Shall be in complete command during any emergency.
 - c. Shall designate a back-up.

All personnel:

- 1. On alarm, don escape unit and report to the nearest upwind designated safe briefing / muster area upw
- 2. Check status of personnel (buddy system).
- 3. Secure breathing equipment.
- 4. Await orders from supervisor.

Drill site manager:

- 1. Don escape unit if necessary and report to nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparations of individuals to return to point of release with tool pusher and driller (using the buddy system).
- 3. Determine H2S concentrations.
- 4. Assess situation and take control measures.

Tool pusher:

- 1. Don escape unit Report to up nearest upwind designated safe briefing / muster area.
- 2. Coordinate preparation of individuals to return to point of release with tool pusher drill site manager (using the buddy system).
- 3. Determine H2S concentration.
- 4. Assess situation and take control measures.

Driller:

1. Don escape unit, shut down pumps, continue

rotating DP.

- 2. Check monitor for point of release.
- 3. Report to nearest upwind designated safe briefing / muster area.
- 4. Check status of personnel (in an attempt to rescue, use the buddy system).
- 5. Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
- 6. Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.

Derrick man Floor man #1 Floor man #2 1. Will remain in briefing / muster area until instructed by supervisor.

Mud engineer:

- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for ph and H2S level. (Garett gas train.)

Safety personnel:

1. Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

When taking a kick during an H2S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

Open-hole logging

All unnecessary personnel off floor. Drill Site Manager and safety personnel should monitor condition, advise status and determine need for use of air equipment.

Running casing or plugging

Following the same "tripping" procedure as above. Drill Site Manager and safety personnel should determine if all personnel have access to protective equipment.

Ignition procedures

The decision to ignite the well is the responsibility of the operator (Oxy Drilling Management). The decision should be made only as a last resort and in a situation where it is clear that:

- 1. Human life and property are endangered.
- 2. There is no hope controlling the blowout under the prevailing conditions at the well.

<u>Instructions for igniting the well</u>

- 1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man (tool pusher or safety engineer) will check the atmosphere for explosive gases with the gas monitor. The other man is responsible for igniting the well.
- 2. Primary method to ignite: 25 mm flare gun with range of approximately 500 feet.
- 3. Ignite upwind and do not approach any closer than is warranted.
- 4. Select the ignition site best for protection, and which offers an easy escape route.
- 5. Before firing, check for presence of combustible gas.
- 6. After lighting, continue emergency action and procedure as before.
- 7. All unassigned personnel will remain in briefing area until instructed by supervisor or directed by the Drill Site Manager.

<u>Remember</u>: After well is ignited, burning hydrogen sulfide will convert to sulfur dioxide, which is also highly toxic. <u>Do not assume the area is safe after the well is ignited.</u>

Status check list

Note: All items on this list must be completed before drilling to production casing point.

- 1. H2S sign at location entrance.
- 2. Two (2) wind socks located as required.
- 3. Four (4) 30-minute positive pressure air packs (2 at each Briefing area) on location for all rig personnel and mud loggers.
- 4. Air packs inspected and ready for use.
- 5. Cascade system and hose line hook-up as needed.
- 6. Cascade system for refilling air bottles as needed.
- 7. Condition flag on location and ready for use.
- 8. H2S detection system hooked up and tested.
- 9. H2S alarm system hooked up and tested.
- 10. Hand operated H2S detector with tubes on location.
- 11. 1-100' length of nylon rope on location.
- 12. All rig crew and supervisors trained as required.
- 13. All outside service contractors advised of potential H2S hazard on well.
- 14. No smoking sign posted and a designated smoking area identified.
- 15. Calibration of all H2S equipment shall be noted on the IADC report.

Checked by:	Date:
encenca by.	Bates

Procedural check list during H2S events

Perform each tour:

- 1. Check fire extinguishers to see that they have the proper charge.
- 2. Check breathing equipment to ensure that it in proper working order.
- 3. Make sure all the H2S detection system is operative.

Perform each week:

- 1. Check each piece of breathing equipment to make sure that demand or forced air regulator is working. This requires that the bottle be opened and the mask assembly be put on tight enough so that when you inhale, you receive air or feel air flow.
- 2. BOP skills (well control drills).
- 3. Check supply pressure on BOP accumulator stand by source.
- 4. Check breathing equipment mask assembly to see that straps are loosened and turned back, ready to put on.
- 5. Check pressure on breathing equipment air bottles to make sure they are charged to full volume. (Air quality checked for proper air grade "D" before bringing to location)
- 6. Confirm pressure on all supply air bottles.
- 7. Perform breathing equipment drills with on-site personnel.
- 8. Check the following supplies for availability.
 - A. Emergency telephone list.
 - B. Hand operated H2S detectors and tubes.

General evacuation plan

- 1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H2S gas cannot be limited to the well location and the public will be involved, he will activate the evacuation plan.
- 2. Drill Site Manager or designee will notify local government agency that a hazardous condition exists and evacuation needs to be implemented.
- 3. Company or contractor safety personnel that have been trained in the use of H2S detection equipment and self-contained breathing equipment will monitor H2S concentrations, wind directions, and area of exposure. They will delineate the outer perimeter of the hazardous gas area. Extension to the evacuation area will be determined from information gathered.
- 4. Law enforcement personnel (state police, police dept., fire dept., and sheriff's dept.) Will be called to aid in setting up and maintaining road blocks. Also, they will aid in evacuation of the public if necessary.
- 5. After the discharge of gas has been controlled, company safety personnel will determine when the area is safe for re-entry.

<u>Important:</u> Law enforcement personnel will not be asked to come into a contaminated area. Their assistance will be limited to uncontaminated areas. Constant radio contact will be maintained with them.

Emergency actions

Well blowout – if emergency

- 1. Evacuate all personnel to "Safe Briefing / Muster Areas" or off location if needed.
- 2. If sour gas evacuate rig personnel.
- 3. If sour gas evacuate public within 3000 ft radius of exposure.
- 4. Don SCBA and shut well in if possible using the buddy system.
- 5. Notify Drilling Superintendent and call 911 for emergency help (fire dept and ambulance) if needed.
- 6. Implement the Blowout Contingency Plan, and Drilling Emergency Action Plan.
- 6. Give first aid as needed.

Person down location/facility

- 1. If immediately possible, contact 911. Give location and wait for confirmation.
- 2. Don SCBA and perform rescue operation using buddy system.

Toxic effects of hydrogen sulfide

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure is 10 ppm, which is .001% by volume. Hydrogen sulfide is heavier than air (specific gravity – 1.192) and colorless. It forms an explosive mixture with air between 4.3 and 46.0 percent by volume. Hydrogen sulfide is almost as toxic as hydrogen cyanide and is between five and six times more toxic than carbon monoxide. Toxicity data for hydrogen sulfide and various other gases are compared in table i. Physical effects at various hydrogen sulfide exposure levels are shown in table ii.

Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity (sc=1)	Threshold limit (1)	Hazardous limit (2)	Lethal concentration (3)
Hydrogen Cvanide	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

- 1) threshold limit concentration at which it is believed that all workers may be repeatedly exposed day after day without adverse effects.
- 2) hazardous limit concentration that will cause death with short-term exposure.
- 3) lethal concentration concentration that will cause death with short-term exposure.

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

		Concentration	Physical effects
Percent (%)	Ppm	Grains	
, ,	-	100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

0.002	10	01.30	Safe for 8 hours of exposure.
0.010	100	06.48	Kill smell in $3 - 15$ minutes. May sting eyes and throat.
0.020	200	12.96	Kills smell shortly; stings eyes and throat.
0.050	500	32.96	Dizziness; breathing ceases in a few minutes; needs prompt artificial respiration.
0.070	700	45.36	Unconscious quickly; death will result if not rescued promptly.
0.100	1000	64.30	Unconscious at once; followed by death within minutes.

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper facepiece to face seal. They shall wear SCBA's in normal air and then wear them in a
 test atmosphere. (note: such items as facial hair {beard or sideburns} and
 eyeglasses will not allow proper seal.) Anyone that may be reasonably expected
 to wear SCBA's should have these items removed before entering a toxic
 atmosphere. A special mask must be obtained for anyone who must wear
 eyeglasses or contact lenses.
- 4. Maintenance and care of SCBA's:
 - a. A program for maintenance and care of SCBA's shall include the following:
 - 1. Inspection for defects, including leak checks.
 - 2. Cleaning and disinfecting.
 - 3. Repair.
 - 4. Storage.
 - b. Inspection, self-contained breathing apparatus for emergency use shall be inspected monthly.
 - 1. Fully charged cylinders.
 - 2. Regulator and warning device operation.
 - 3. Condition of face piece and connections.
 - 4. Rubber parts shall be maintained to keep them pliable and prevent deterioration.
 - c. Routinely used SCBA's shall be collected, cleaned and disinfected as frequently as necessary to insure proper protection is provided.
- 5. Persons assigned tasks that requires use of self-contained breathing equipment shall be certified physically fit (medically cleared) for breathing equipment usage at least annually.
- 6. SCBA's should be worn when:
 - A. Any employee works near the top or on top of any tank unless test reveals less than 10 ppm of H2S.

- B. When breaking out any line where H2S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H2S exists.
- D. When working in areas where over 10 ppm H2S has been detected.
- E. At any time there is a doubt as to the H2S level in the area to be entered.

Rescue First aid for H2S poisoning

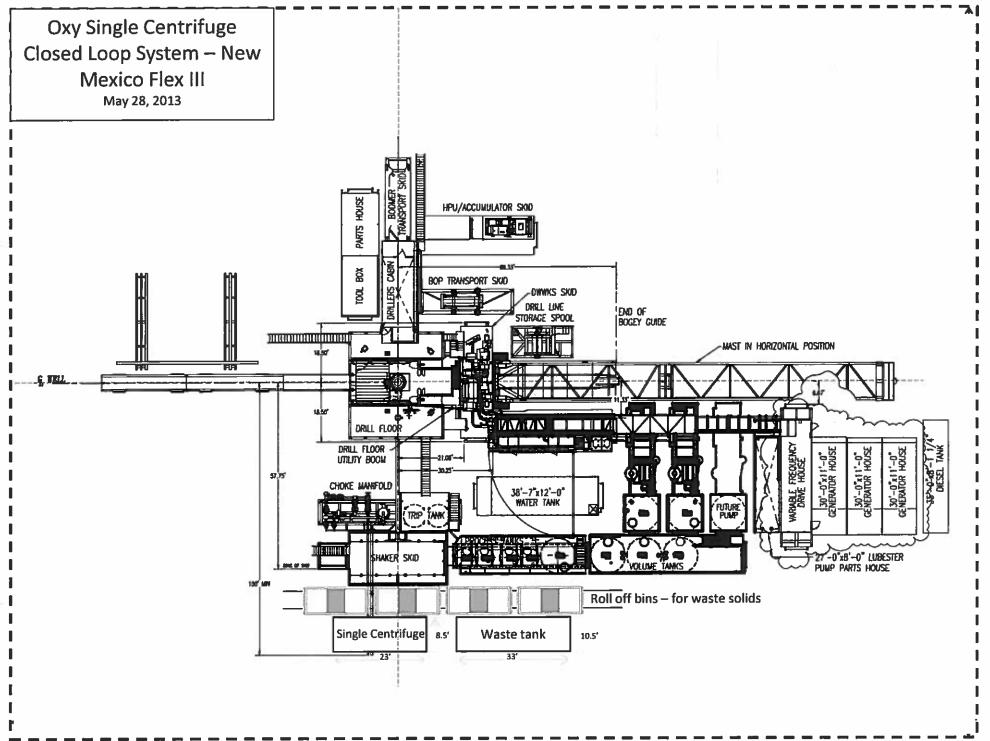
Do not panic!

Remain calm – think!

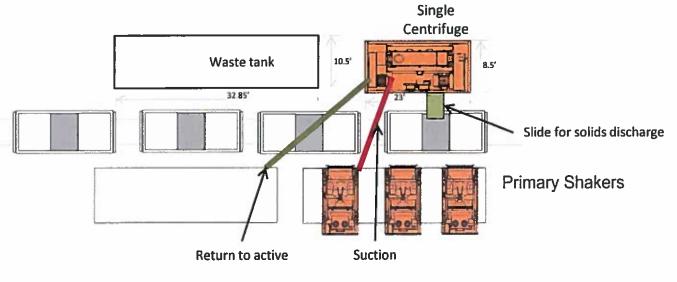
- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid inhaling any toxic gas directly from the victim's lungs.
- 4. Provide for prompt transportation to the hospital, and continue giving artificial respiration if needed.
- 5. Hospital(s) or medical facilities need to be informed, before-hand, of the possibility of H2S gas poisoning no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012



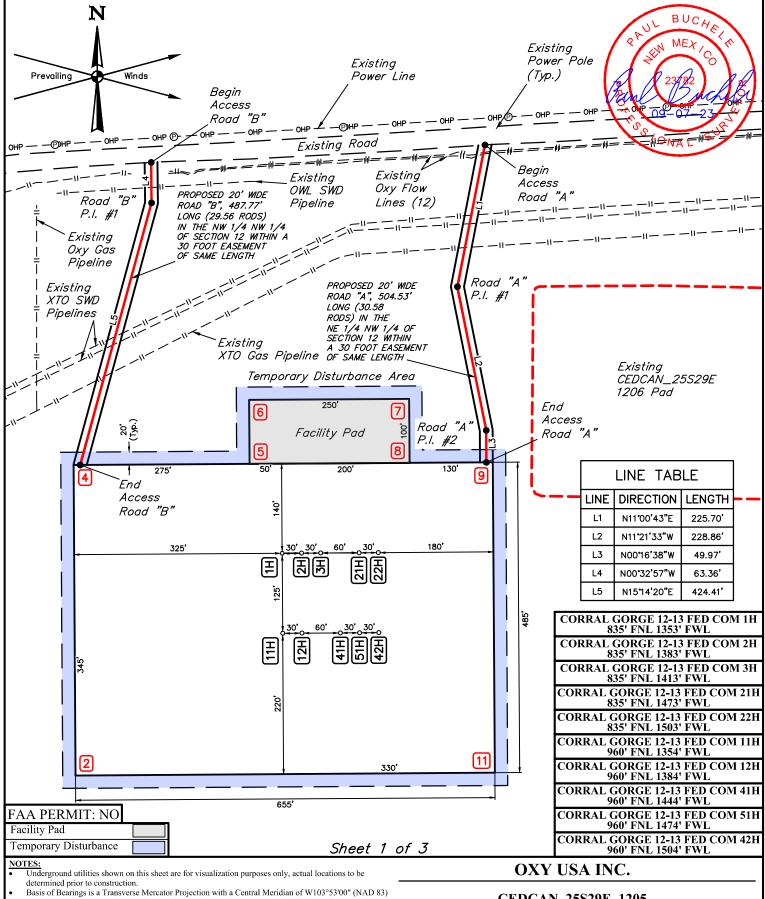








Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013



OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO





UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

CORRAL G	JRGE 12-13 FED COM IH
EL: 3104.1'	
NAD 83	
T A TRITTINE	20000150 008 (20.140(520)

LONGITUDE = -103°56'32.02" (-103.942228°)

LATITUDE = 32°08'58.38" (32.149549°) LONGITUDE = -103°56'30.27" (-103.941743°) STATE PLANE NAD 83 (N.M. EAST)

CORRAL GORGE 12-13 FED COM 21H -

LONGITUDE = -103°56'30.63" (-103.941840°)

LONGITUDE = -103°56'28.88" (-103.941355°)

LATITUDE = 32°08'58.83" (32.149675°)

LATITUDE = $32^{\circ}08'58.39''$ (32.149552)

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

N: 418407.53' E: 662498.52

N: 418349.15' E: 621313.86'

N: 418406.24' E: 662378.56 STATE PLANE NAD 27 (N.M. EAST)

N: 418347.87' E: 621193.89'

CORRAL GORGE 12-13 FED COM 2H -

LATITUDE = 32°08'58.82" (32.149674 LONGITUDE = -103°56'31.67" (-103.942131°)

LATITUDE = 32°08'58.38" (32.149550°) LONGITUDE = -103°56'29.93" (-103.941646°) STATE PLANE NAD 83 (N.M. EAST)

N: 418406.57' E: 662408.55'

N: 418348.19' E: 621223.88

CORRAL GORGE 12-13 FED COM 22H -

STATE PLANE NAD 27 (N.M. EAST)

NAD 83

LATITUDE = 32°08'58.83" (32.149676° LONGITUDE = -103°56'30.28" (-103.941743°)

LATITUDE = 32°08'58.39" (32.149552 LONGITUDE = -103°56'28.53" (-103.941258°)

STATE PLANE NAD 83 (N.M. EAST) N: 418407.85' E: 662528.52

STATE PLANE NAD 27 (N.M. EAST)

N: 418349.47' E: 621343.85'

CORRAL GORGE 12-13 FED COM 3H -EL: 3104.7

NAD 83

LATITUDE LONGITUDE = -103°56'31.32" (-103.942034°)

LATITUDE = 32°08'58.38" (32.149550°) LONGITUDE = -103°56'29.58" (-103.941549°)

STATE PLANE NAD 83 (N.M. EAST) N: 418406.89' E: 662438.54

STATE PLANE NAD 27 (N.M. EAST)

N: 418348.51' E: 621253.8

CORRAL GORGE 12-13 FED COM 11H -EL: 3105.7'

NAD 83

LATITUDE = 32°08'57.59" (32.149329°)

LONGITUDE = -103°56'32.01" (-103.942225°)

LATITUDE = 32°08'57.14" (32.149206

LONGITUDE = -103°56'30.26" (-103.941740°)

STATE PLANE NAD 83 (N.M. EAST) N: 418281.28' E: 662379.89'

STATE PLANE NAD 27 (N.M. EAST)

N: 418222.90' E: 621195.22

CORRAL GORGE 12-13 FED COM 12H -

LATITUDE = 32°08'57.59" (32.149330°) LONGITUDE = -103°56'31.66" (-103.942128°)

NAD 27

LATITUDE = 32°08'57.14" (32.149206°)

LONGITUDE = -103°56'29.92" (-103.941643°)

STATE PLANE NAD 83 (N.M. EAST)

N: 418281.60' E: 662409.88 STATE PLANE NAD 27 (N.M. EAST)

N: 418223.22' E: 621225

CORRAL GORGE 12-13 FED COM 41H -EL: 3105.6

LATITUDE = 32°08'57.59" (32.149331°) LONGITUDE = -103°56'30.96" (-103.941934°)

NAD 27

LATITUDE = 32°08'57.15" (32.149207°)

LONGITUDE = -103°56'29.22" (-103.941449°) STATE PLANE NAD 83 (N.M. EAST)

N: 418282.24' E: 662469

STATE PLANE NAD 27 (N.M. EAST)

N: 418223.86' E: 621285.20'

CORRAL GORGE 12-13 FED COM 51H -

EL: 3106.2

LATITUDE = 32°08'57.59" (32.149332°)

NAD 27

LATITUDE = 32°08'57.15" (32.149208°)

N: 418282.56' E: 662499.86

CORRAL GORGE 12-13 FED COM 42H -

EL: 3106.5'

NAD 83

LATITUDE = 32°08'57.60" (32.149332°) LONGITUDE = -103°56'30.27" (-103.941741°)

LATITUDE = 32°08'57.15" (32.149209°) LONGITUDE = -103°56'28.52" (-103.941256°)

STATE PLANE NAD 83 (N.M. EAST)

N: 418282.88' E: 662529.85'

STATE PLANE NAD 27 (N.M. EAST)

N: 418224.51' E: 621345.18

LONGITUDE = -103°56'30.61" (-103.941837°)

LONGITUDE = $-103^{\circ}56'28.87''$ (-103.941353°

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

N: 418224.19' E: 621315.19'

BUCHE 09 - 07 - 23ONAL

Sheet 2 of 3

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

OXY USA INC.

CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY C.T., K.H. 08-10-23 SCALE **DRAWN BY** 09-07-23 N/A SITE PLAN



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

2 - EL: 3102.4'
NAD 83
LATITUDE = 32°08'55.39" (32.148718°)
LONGITUDE = -103°56'35.77" (-103.943270°)
NAD 27
LATITUDE = 32°08'54.94" (32.148595°)
LONGITUDE = -103°56'34.03" (-103.942785°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418057.86' E: 662057.33'
STATE PLANE NAD 27 (N.M. EAST)
N: 417999.49' E: 620872.66'

NAD 83

NAD 27

8 - EL: 3104.8'

NAD 83

NAD 27

NAD 83

LATITUDE = 32°09'00.18" (32.150051°)

LATITUDE = 32°08'59.74" (32.149928°)

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

LATITUDE = 32°09'00.22" (32.150062°)

LATITUDE = 32°08'59.78" (32.149938°

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

PI #1 ACCESS ROAD "A" - EL: 3109.5

LATITUDE = 32°09'02.94" (32.150818°)

LATITUDE = 32°09'02.50" (32.150694°)

STATE PLANE NAD 83 (N.M. EAST)

LONGITUDE = -103°56'28.84" (-103.941344°)

LONGITUDE = -103°56'27.09" (-103.940859°)

LONGITUDE = -103°56'29.71" (-103.941585°)

LONGITUDE = $-103^{\circ}56'27.96''$ (-103.941100°)

N: 418542 73' E: 662052 15

N: 418484.35' E: 620867.49'

N: 418548.35' E: 66257

N: 418489.96' E: 621392.34'

LONGITUDE = -103°56'35.81" (-103.943281°)

LONGITUDE = -103°56'34.07" (-103.942796°)

N: 417999.49' E: 620872.66'
7 - EL: 3105.3'
NAD 83
LATITUDE = 32°09'01.21" (32.150336°)
LONGITUDE = -103°56'29.71" (-103.941587°)
NAD 27
LATITUDE = 32°09'00.77" (32.150213°)

EONGITODE -103 3027.71 (-103.741307)
NAD 27
LATITUDE = 32°09'00.77" (32.150213°)
LONGITUDE = -103°56'27.97" (-103.941102°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418648.32' E: 662575.94'
STATE PLANE NAD 27 (N.M. EAST)
N: 418589.94' E: 621391.28'
BEGIN ACCESS ROAD "A" - EL: 3111.6'

NAD 83
LATITUDE = 32°09'05.14" (32.151427°)
LONGITUDE = -103°56'28.34" (-103.941205°)
NAD 27
LATITUDE = 32°09'04.69" (32.151303°)
LONGITUDE = -103°56'26.59" (-103.940721°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419045.40' E: 662692.67'

STATE PLANE NAD 27 (N.M. EAST)

N: 418987.01' E: 621508.02'

BEGIN ACCESS ROAD "B" - EL: 3096.2'
NAD 83
LATITUDE = 32°09'04.86" (32.151351°)
LONGITUDE = -103°56'34.41" (-103.942891°)
NAD 27
LATITUDE = 32°09'04.42" (32.151228°)
LONGITUDE = -103°56'32.66" (-103.942406°)
STATE PLANE NAD 83 (N.M. EAST)
N: 419016.05' E: 662171.25'
STATE PLANE NAD 27 (N.M. EAST)
N: 418957.66' E: 620986.61'

IN: 4	18823.72 E: 002030.49
STA	TE PLANE NAD 27 (N.M. EAST)
N: 4	18765.33' E: 621465.84'
PI #:	1 ACCESS ROAD "B" - EL: 3095.8'
NAI	83
LAT	TTUDE = 32°09'04.24" (32.151177°)
LON	IGITUDE = -103°56'34.40" (-103.942889°)
NAL	27
LAT	TTUDE = 32°09'03.79" (32.151053°)
LON	IGITUDE = -103°56'32.65" (-103.942404°)
STA	TE PLANE NAD 83 (N.M. EAST)
N: 4	18952.71' E: 662172.13'
STA	TE PLANE NAD 27 (N.M. EAST)
N· 4	18894 32' E: 620987 48'

LONGITUDE = -103°56'28.19" (-103.941165°)
NAD 27
LATITUDE = 32°08'59.79" (32.149940°)
LONGITUDE = -103°56'26.45" (-103.940680°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418549.73' E: 662706.97'
STATE PLANE NAD 27 (N.M. EAST)
N: 418491.35' E: 621522.31'
PI #2 ACCESS ROAD "A" - EL: 3107.7'
PI #2 ACCESS ROAD "A" - EL: 3107.7' NAD 83
NAD 83
NAD 83 LATITUDE = 32°09'00.72" (32.150201°)
NAD 83 LATITUDE = 32°09'00.72" (32.150201°) LONGITUDE = -103°56'28.31" (-103.941198°)
NAD 83 LATITUDE = 32°09'00.72" (32.150201°) LONGITUDE = -103°56'28.31" (-103.941198°) NAD 27

LATITUDE = 32°09'00.20" (32.150057°)

LATITUDE = 32°08'59.76" (32.149933°)

STATE PLANE NAD 83 (N.M. EAST)

STATE PLANE NAD 27 (N.M. EAST)

LATITUDE = 32°09'00.23" (32.150064°)

N: 418545.67' E: 662327.07

N: 418487.29' E: 621142.41'

LONGITUDE = -103°56'32.61" (-103.942393°)

LONGITUDE = -103°56'30.87" (-103.941908°)

5 - EL: 3100.7

9 - EL: 3108.2'

NAD 83

NAD 83

NAD 27

LATITUDE = 32°09'00.28" (32.150078°)
LONGITUDE = -103°56'26.57" (-103.940713°)
STATE PLANE NAD 83 (N.M. EAST)
N: 418599.58' E: 662696.50'
STATE PLANE NAD 27 (N.M. EAST)
N: 418541.20' E: 621511.83'
END ACCESS ROAD "B" - EL: 3095.4'
NAD 83
LATITUDE = 32°09'00.19" (32.150052°)
EATTICDE 32 09 00.19 (32.130032)
LONGITUDE = -103°56'35.69" (-103.943248°)

LONGITUDE = -103°56'33.95" (-103.942763°) STATE PLANE NAD 83 (N.M. EAST) N: 418542.84' E: 662062.31' STATE PLANE NAD 27 (N.M. EAST N: 418484.46' E: 620877.65

6 - EL: 3100.2 NAD 83 LATITUDE = 32°09'01.19" (32.150332°) LONGITUDE = -103°56'32.62" (-103.942395°) NAD 27 LATITUDE = 32°09'00.75" (32.150208°) LONGITUDE = -103°56'30.88" (-103.941910°) STATE PLANE NAD 83 (N.M. EAST) N: 418645 65' E: 662326 00' STATE PLANE NAD 27 (N.M. EAST) N: 418587.26' E: 621141.34'

11 - EL: 3112.3' NAD 83 LATITUDE = 32°08'55.43" (32.148731°) LONGITUDE = -103°56'28.15" (-103.941154°) NAD 27 LATITUDE = 32°08'54.99" (32.148607° LONGITUDE = -103°56'26.41" (-103.940669°) STATE PLANE NAD 83 (N.M. EAST) N: 418064.86' E: 662712.16' STATE PLANE NAD 27 (N.M. EAST) N: 418006.49' E: 621527.48'

END ACCESS ROAD "A" - EL: 3108.2 NAD 83 LATITUDE = 32°09'00.23" (32.150064°) LONGITUDE = -103°56'28.31" (-103.941197° LATITUDE = 32°08'59.78" (32.149940°) LONGITUDE = -103°56'26.57" (-103.940713°) STATE PLANE NAD 83 (N.M. EAST) N: 418549.63' E: 662696.95 STATE PLANE NAD 27 (N.M. EAST) N: 418491.25' E: 621512.28'

> BUCHE 09-07-23 ONAL

> > Sheet 3 of 3

NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- OXY USA INC. personnel to provide any site specific requirements needed at the time of construction.

OXY USA INC.

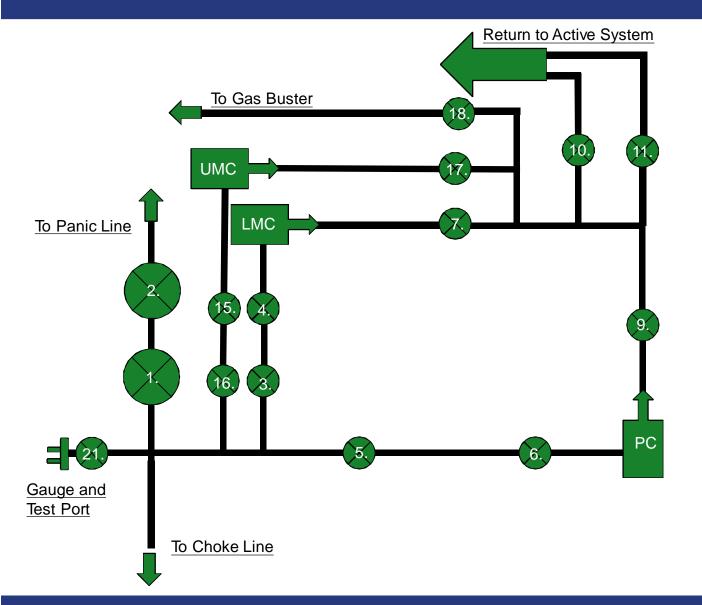
CEDCAN 25S29E 1205 NE 1/4 NW 1/4, SECTION 12, T25S, R29E, N.M.P.M. EDDY COUNTY, NEW MEXICO

SURVEYED BY C.T., K.H. 08-10-23 SCALE **DRAWN BY** 09-07-23 N/A SITE PLAN



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017

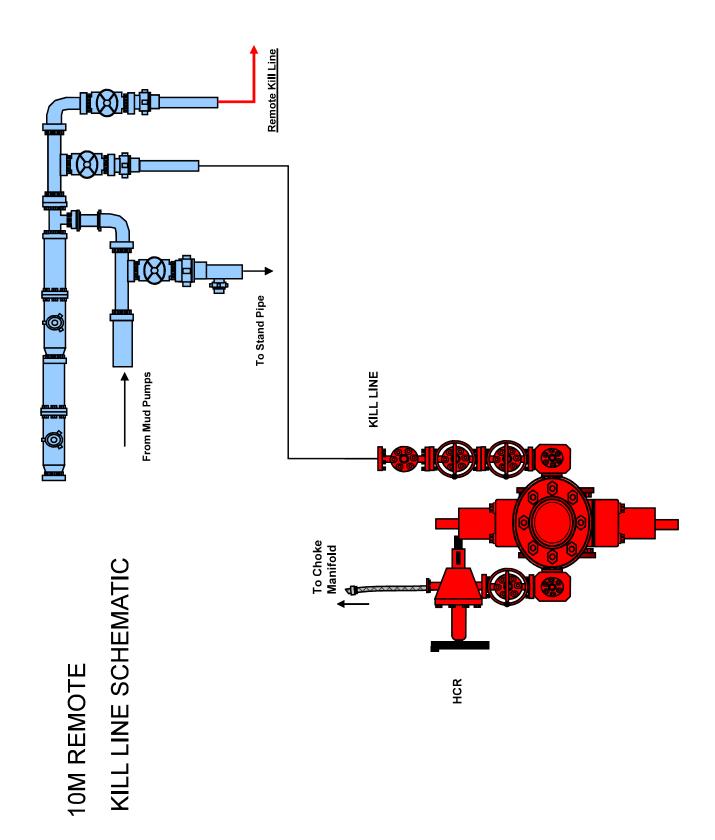
10M Choke Panel

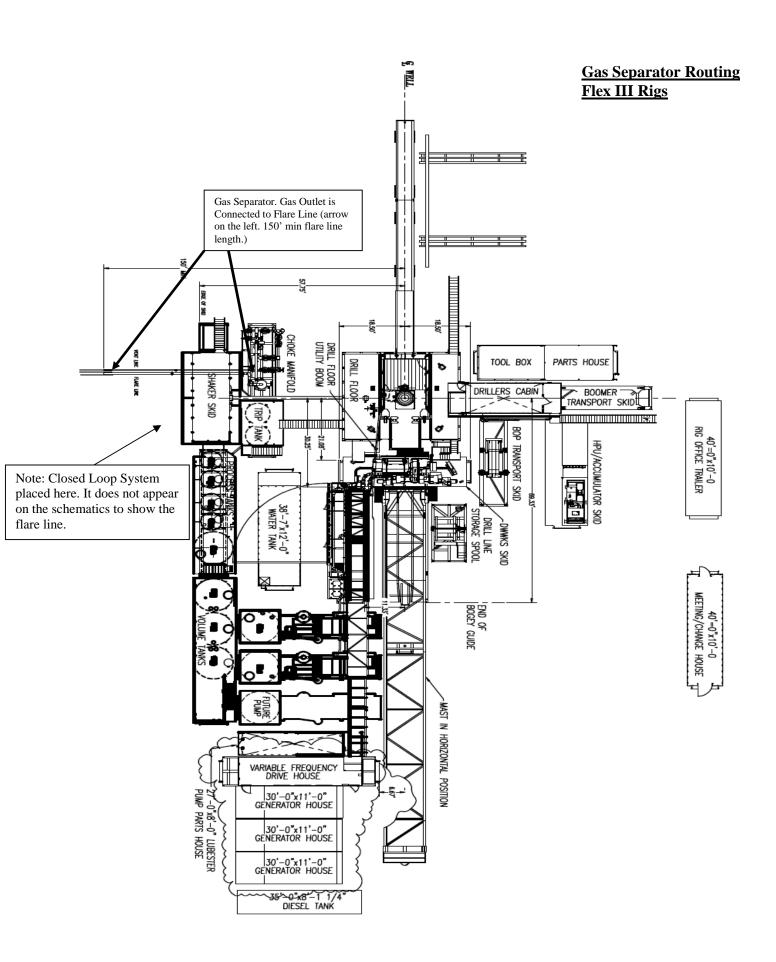


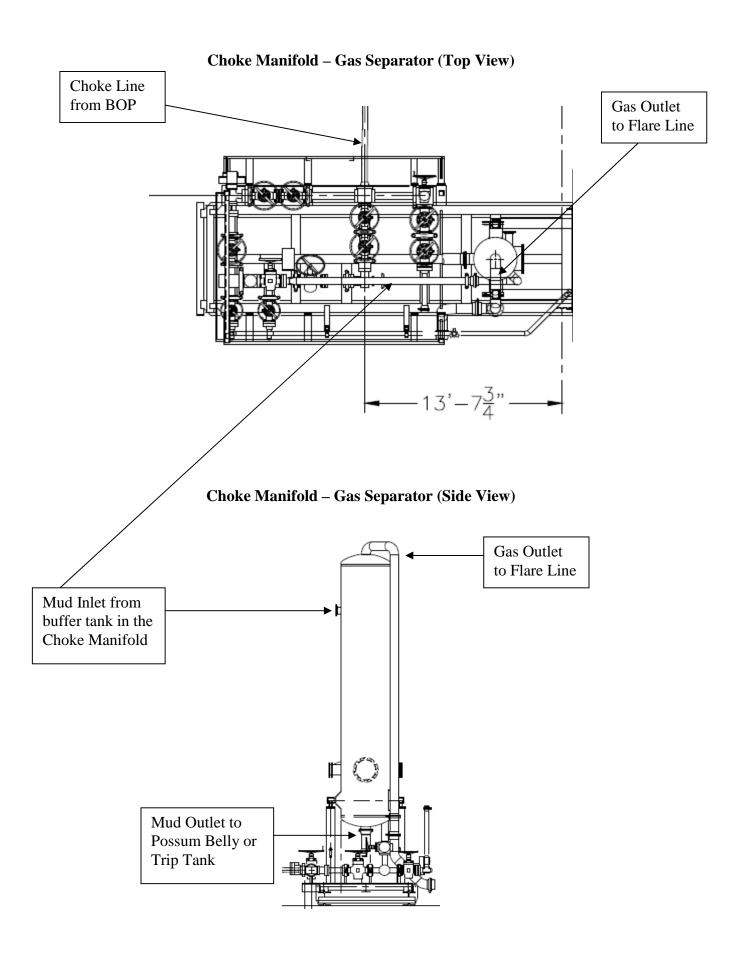
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual Choke
- 13. UMC Upper manual choke
- 15. Choke Manifold Valve
- 16. Choke Manifold Valve
- 17. Choke Manifold Valve
- 18. Choke Manifold Valve
- 21. Vertical Choke Manifold Valve

*All Valves 3" minimum









Certificate of Conformity



ContiTech Certificate Number COM Order Reference **Customer Name & Address** H100161 1429702 HELMERICH & PAYNE DRILLING CO Customer Purchase Order No: 740382384 1434 SOUTH BOULDER AVE TULSA, OK 74119 Project: USA **Test Center Address** Accepted by COM Inspection Accepted by Client Inspection ContiTech Oil & Marine Corp. Gerson Mejia-Lazo 11535 Brittmoore Park Drive Signed: Houston, TX 77041 USA Date: 06/27/22

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

Hydrostatic Test Certificate



ContiTech Certificate Number COM Order Reference **Customer Name & Address** H100161 1429702 HELMERICH & PAYNE DRILLING CO Customer Purchase Order No: 740382384 1434 SOUTH BOULDER AVE TULSA, OK 74119 Project: USA **Test Center Address** Accepted by COM Inspection Accepted by Client Inspection ContiTech Oil & Marine Corp. Gerson Mejia-Lazo 11535 Brittmoore Park Drive Signed: Houston, TX 77041 USA Date: 06/27/22

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)	Test Time (minutes)
--	------	----------	-------------	------	---------------	-----------------------	----------------------	------------------------

30 RECERTIFICATION

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

70024

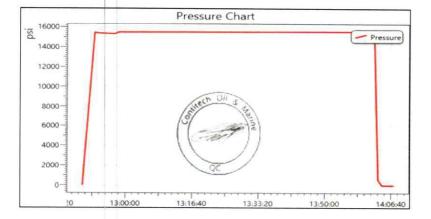
10,000

15,000

60

Record In	nformation
Start Time	6/8/2022 12:49:19
End Time	6/8/2022 14:07:25
Interval	00:01:00
Number	79
MaxValue	15762
MinValue	-7
AvgValue	14395
RecordName	70024-sh
RecordNumber	235

Gauge II	Gauge Information					
Model	ADT680					
SN	21817380014					
Range	(0-40000)psi					
Unit	psi					



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120001

THE8 ENED EC 23/25



SERIAL #:

SALES ORDER #:

Gates Engineering & Services North America

7603 Prairie Oak Dr.

Houston, TX. 77086 PHONE : (281) 602-411

EAX: PHONE: (281) 602-4119

EMAIL: Troy.Schmidt@gates.com

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

SALES ORDER #:	286915
	CLAMPS
:NOIT4I8DS3G T8A	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
. NOT DECEMBED.	ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
CUSTOMERS P.O.#: CUSTOMER P/N:	A-7 AUSTIN INC DBA AUSTIN HOSE ASSEMBLY WITH STRINLESS STEEL 10KFR3.012.0CK411610KFIXXFLT SSA SC LE 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STRINLESS STEEL

H2-112019-4

SIGNATURE:
QUALITY ASSURANCE

11/20/2019
E105/05/11

Houston, TX 7086 7603 Prairie Oak Dr. GATES ENGINEERING & SERVICES NORTH AMERICA

286915 4128128 (RIG 1 PO 002773) **BEOH NITZUA ABO DNI NITZUA V-A**

Created By: Hose Serial No.: Test Date:

FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS

3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X PLOAT H2S SUITED

10,000 PSI. 'ISA 000'SI Assembly Code: F41545 113018 End Fitting 2: 4 1/10 TOK ELANGES FLOAT

Working Pressure: Test Pressure:

: aumeuőis : 9160 Production:

SIØZ/OZ/TT YTIJAUD

Revision 1_022819 41/20/2019 иоптойводяч

: andengi2 : ested

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

F-PRD-005

Quality:

management system.

AN23D ont in that has been calibrated in accordance with the requirements set-forth in the GESNA certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies), which include reference to The following hose assembly has successfully passed all pressure testing requirements set forth in Gates

Gates Engineering & Services North America certifies that:

10KFR3.012.0CK411610KF1XXFLT SSA SC LE

6246486-01000689

4 1/10 10K FLANGES FIXED

PRESSURE TEST CERTIFICATE

www.gates.com EMAIL: Troy.Schmidt@gates.com

Norma Cabrera

HZ-112019-4

6102/02/11

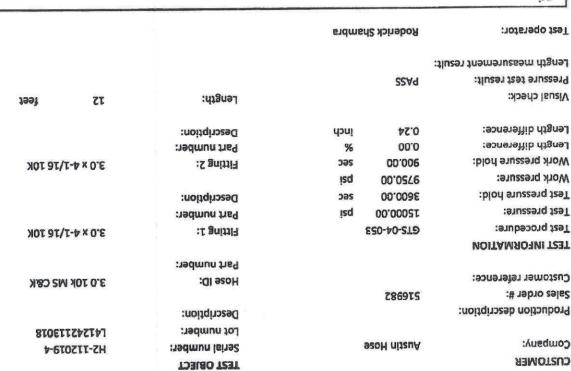
PHONE: (281) 602 - 4119

Page 1/2

H2-1987

TEST REPORT





18000 1 00001 10000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 0000 1 00000 1 00

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H2-1987

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TEST REPORT

GAUGE TRACEABILITY

31 00 000		Serial number	noitqinse 9
2020-03-15	Z079-03-17	TIOAMCLO	W-A-25-6
2020-04-14	2019-04-16	TTOPPOZK	W-A-25-
			Comment

Page 2/2

Filename: D:/Certificates/Report_112019-4.pdf

Certificate of Conformance

DW INDUSTRIES INC.

6287 Long Drive Houston, TX 77087

Tel. 713 644-8372 Fax 713-644-4947

3" 10,000 psi WP CHOKE HOSE		Part Description:	-2181-0192-AO 1-2001	Customer Part Number:	Purchase	
0707/97/70	:936 AldmassA L		CTY Ordered:	ise Ord		
OSS620DW-2	Serial Number:	4-2001-2184-0492-A0		DW Industries Part Number:	er info	
20020763	DW Industries Work Order Number:	CONTACT PAUL HOFFMAN FOR		Customer Purchase Order Number:	Order Information	
	PAUL HOI	Customer Contact:	DRILLING	CITADEL	Customer Name:	

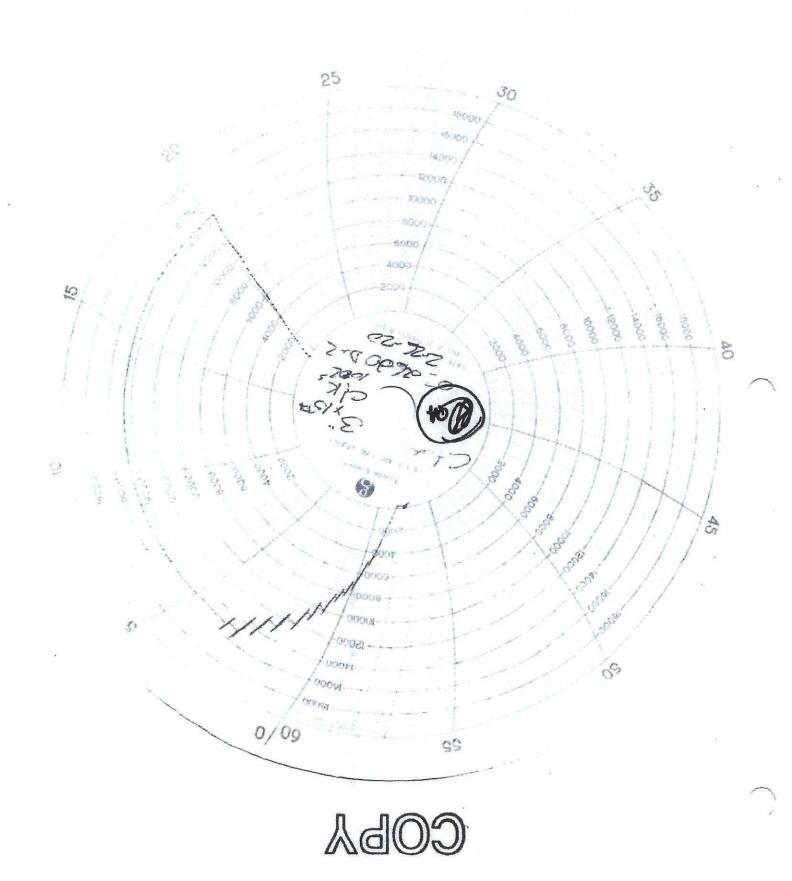
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Carrett Crawford, Director of Quality

DW Industries Inc.

- 1/2 - 1/2 - 1/3 - 1/3 - 1/4



Certificate of Conformance

COBA

Houston, TX 77087

DW INDUSTRIES INC.

Tel. 713 644-8372 Fax 713-644-4947

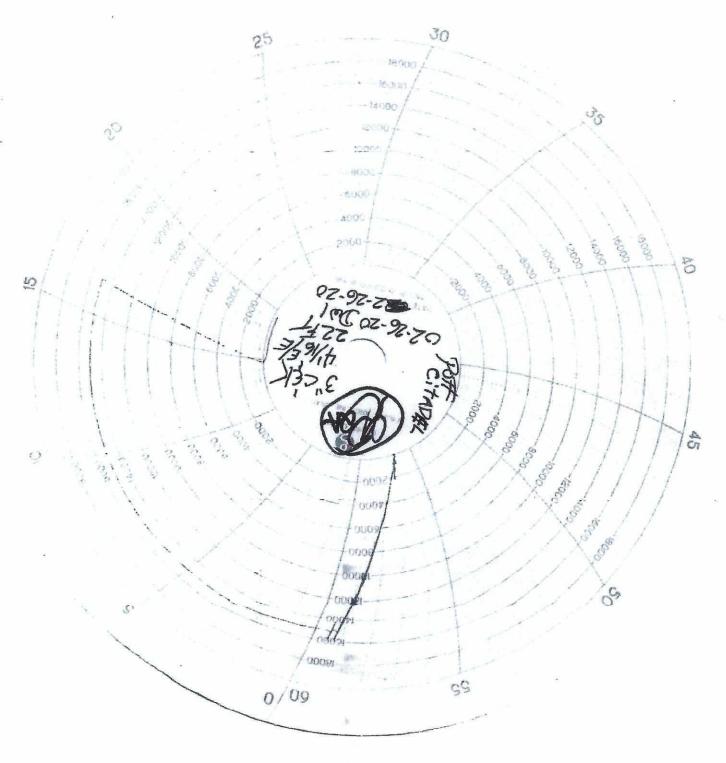
FLOAT FLANGES	C/M 25 ARMOR 4-1/16" FIXED BY 3" 10,000 psi W	Part Description:	-A-S640-4822-4-	Customer Part Number:	Purcha	
07)797/70	:93e@ Vidm9ssA	ī		QTY Ordered:	se Ord	
T-MQ0Z9ZZ0	Serial Number:	3/4-14X76FXFL-A-£		DW Industries	ler Info	
79102007	W Industries Work Order Number:	CONTACT PAUL HOFFMAN FOR		Customer Purchase Order Number:	Purchase Order Information	
	PAUL HOI 142-264	Customer Contact:	סצודרואפ	CITADEL	Customer Name:	

I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 2/27/2020

Garrett Crawford, Director of Quality

DW Industries Inc.



COBA

Certificate of Conformance

DW INDUSTRIES INC.

Tel. 713 644-8372 Fax 713-644-4947

ל" FIG 602 MXF	U: d"XT24" 3K M\	Part Description		Customer Part Number:	Purcha	
1/27/2023	Ssembly Date:		τ	QTY Ordered:	ise Ord	
73010062	Serial Number:	709-"45It	9-85038-AO	DW Industries	ler Info	
53010065	DW Industries Work Order Number:	77640700		Customer Purchase Order Number:	Purchase Order Information	
АЯЗ	10DA FC	Contamer:	JSOF	1 NITU2A	Sustomer Name:	

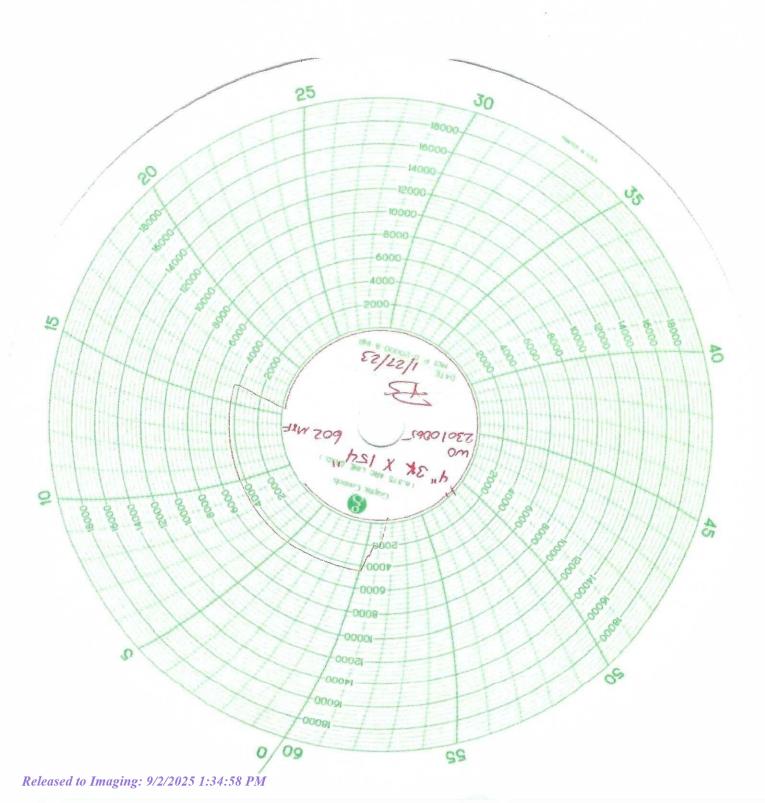
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PACKING, MARKING, AND PHYSICAL OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, MARKING, AND PHYSICAL ORDER, INCLUDING: WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Certificate Issue Date: 1/27/2023

P. Sand Some

Quality Assurance, DW Industries, Inc.

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IN SERVICE 12-20-21



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086

PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

PRESSURE TEST CERTIFICATE

Customer:

A-7 AUSTIN INC DBA AUSTIN HOSE

10/15/2021

Customer Ref.:

00595477

Hose Serial No.:

H3-101521-2

Invoice No.:

521925

Created By:

Test Date:

Micky Mhina

Product Description:

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

End Fitting 1:

Oracle Star No.:

CUSTOMER P/N:

4 1/16 10K FIXED FLANGE 68703010-10074881

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

End Fitting 2:

Assembly Code:

Test Pressure:

Working Pressure:

4 1/16 10K FLOAT HEAT TREATED FLANGES

L41975 091719

15,000 PSI.

10,000 PSI.

Gates Engineering & Services North America certifies that:

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-04-052 (for 5K assemblies) or GTS-04-053 (10K assemblies) or GTS-04-048 (15K assemblies), which include reference to Specification API 16C (2nd Edition); sections 7.5.4, 7.5.9, and 10.8.7. A test graph will accompany this test certificate to illustrate conformity to test requirements. This hose assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set-forth in the GESNA management system.

Quality:

Date:

Signature:

QUALITY

10/15/2021 nkul Production:

Date:

Signature:

PRODUCTION

10/15/2021

F-PRD-005B

Revision 6_05032021



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Houston, TX. 77086

PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to certify that all parts and materials included in this shipment have manufactured and/or processed in accordance with various Gates and API assembly and test specifications. Records of required tests are on-file and subject to examination. Test reports and subsequent test graphs have been made available with this shipment. Additional supporting documentation related to materials, welding, weld inspections, and heat-treatment activities are available upon request.

CUSTOMER:

A-7 AUSTIN INC DBA AUSTIN HOSE

CUSTOMER P.O.#:

00595477

CUSTOMER P./N.#:

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S

PART DESCRIPTION: SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH

STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

SALES ORDER #:

521925

QUANTITY:

1

SERIAL #:

H3-101521-2

SIGNATURE:	Muly wnew	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company:

Austin Distributing

TEST OBJECT

Serial number:

H3-101521-2

Lot number:

L41975091719

Description:

Sales order #:

521925

Customer reference:

Production description:

Hose ID: Part number:

Fitting 1:

3" 10k ck

3.0 x 4-1/16 10K

3.0 x 4-1/16 10K

TEST INFORMATION

Test procedure:

Test pressure hold:

Work pressure hold:

Length difference:

Length difference:

Work pressure:

Test pressure:

3600.00

15000.00 psi sec

psi sec

%

inch

900.00 0.00

GTS-04-053

0.00

10000.00

Part number: Description:

Fitting 2:

Part number:

Description:

Length:

35

feet

Visual check:

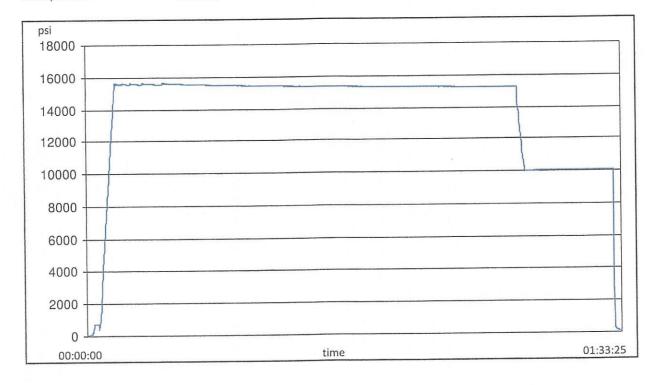
Pressure test result:

PASS

Length measurement result:

Test operator:

francisco



Filename: D:\Certificates\Report_101521-H3-101521-2.pdf

Page 1/2



H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

GAUGE TRACEABILITY

Description	scription Serial number		Calibration due date		
S-25-A-W	110AQA1S	2021-02-24	2022-02-24		
S-25-A-W	110D3PHQ	2021-03-11	2022-03-11		
Comment					

Filename: D:\Certificates\Report_101521-H3-101521-2.pdf

Hydrostatic Test Certificate

Hydrostatic Test Certifi	cate	ContiTech
Certificate Number H100163	ate Number COM Order Reference HELMERICH & PAYNE DRILLING CO	
Customer Purchase Order No:	7-7000000	TULSA, OK 74119 USA
Project:		Accepted by Client Inspection
Test Center Address	Accepted by COM Inspection [Gerson Mejia-Lazo	
ContiTech Oll & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041	Signed: Date: 07/14/22	Last the heat of OUT

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

Item	knowledge are foul	Description	Qnty	Serial Number	Work, Press. (psi)	Test Press. (psi)	Test Time (minutes)	-
					40.000	15 000	60	

RECERTIFICATION 50

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

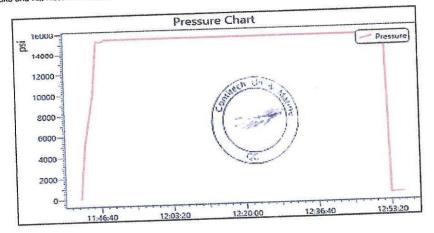
70025

10,000

15,000

Record In	iformation
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237

Gauge In	formation
Model	ADT680
SN	21817380014
Range	(0-40000)psi
Unit	psi



intinenta

Certificate of Conformity

derundate of dome.		ContiTech
Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	740382384	1434 SOUTH BOULDER AVE
Customer Furchase order No.		TULSA, OK 74119
Project:		USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp.	Gerson Mejia-Lazo	23
11535 Brittmoore Park Drive	Signed:	
Houston, TX 77041	(The state of	
USA	Date: 07/14/22	

We certify that the items detailed below meet the requirements of the customer's Purchase Order referenced above, and are in conformance with the specifications given below.

Item	Part No.	Description	Qnty	Serial Number	Specifications
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	ContiTech Standard

ARMORED CHOKE HOSE

FIRSTALLAN

4-29-22



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

Page: 16 / 91

ContiTech

QUAL INSPECTION A	ITY CON		ATE		CERT. N	lo:	75819	
PURCHASER:	ContiTech (Oil & Marine (Dil & Marine Corp. P.O. N		P.O. N°:	P.O. N°: 4501225327		
CONTITECH RUBBER order N°	HOSE TYPE:	3"	ID		Choke an	d Kill Hose		
HOSE SERIAL N°:	NOMINAL / AC	TUAL LE	NGTH:		10,67 r	n / 10,68 m		
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	00 psi	Duration:	60	min.
Pressure test with water at ambient temperature		See attachm	nent (1	page)			
COUPLINGS Typ	е	Seria	l Nº		Qua	ality	Heat N°	
3" coupling with	1	602	26		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	lange end				AISI	4130	040841	
Hub					AISI	4130	54194	
3" coupling with	1	601	16		AISI 4130		A0607J	
4 1/16" 10K API b.w. Fla	ange end				AISI	4130	040431	
Not Designed For Wo	Not Designed For Well Testing API Spec 16 C 2 nd Edition—FSL2 Temperature rate: "B"							
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO						H THE TERM	IS OF THE ORDER	
STATEMENT OF CONFORMITY conditions and specifications of accordance with the referenced st	: We hereby the above Purc tandards, codes	certify that the ab	ove items/e that these s and meet	equipme items/e the rele	nt supplied equipment vant accep	were fabricat	ed inspected and tes	sted in
Date: 08. April 2019.	Inspector			y Contr	ol Coz	ntiTech Rub adustrial Kf lity Coatrol I	L	5



Prepared by	C	Cristian Rivera		Date:	8/27/2022		QIN:	N/A	
Customer:	HELI	MERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK,TX,77547-2738			A	
User contact:	MI	TCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hp	oinc.com
		Parame	ete	ers		Н	ose Deta	ils	Test Status
		PO			740398454 (88000240 Si	N:700	035)		
		Gates SO			525035				
		Serial #:			88000240 SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
		Hose ID:			3 IN				
Annlingting		Hose type:			INSPECT AND RETEST CUST C/W 4-1/16 FLANGES BX15			35FT CHOKE & KILL ASSEMBLY ACH END	
Application									DACC
Informatio	n	Working press	ure	e :	10000 PSI.				PASS

1. Visual Examination

An API 16C, IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END received from HELMERICH & PAYNE, INC for inspection, testing and external cosmetic repairs. The hydrostatic pressure testing was requested to 15000 PSI., by the customer HELMERICH & PAYNE, INC

Visual inspection and examination of external hose assembly showed some cosmetic dents and repairabledamages to the external armor at distance 32ft 9in. from EF2. (Need to fix a part of the hose.)

Both external & internal hose body and couplings of the hose were examined. Visual Inspection photos are in Table 2, while post inspection/testing pictures are in Table 4.

The hose was hydrostatically tested at 15000 PSI. test pressure with an hour-long hold. On completion of hydrostatic testing, an internal baroscopic examination was carried out, to check the condition of internal hose areas, mainly hose tube and coupling hose interface.

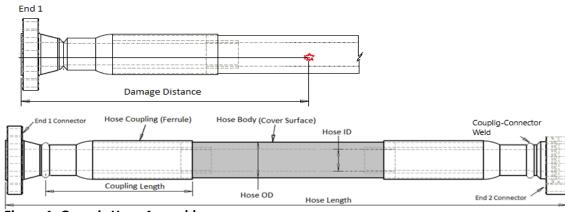
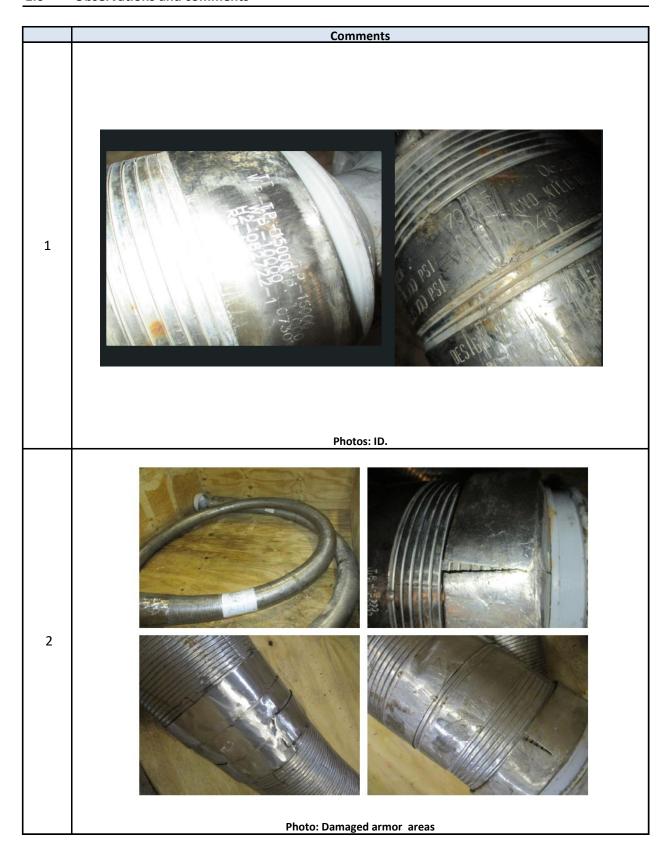


Figure 1: Generic Hose Assembly



1.0 Observations and comments



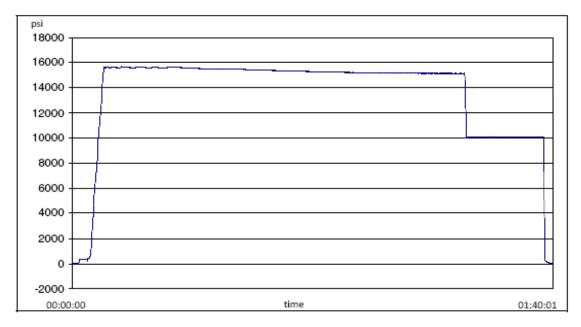








2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL	3 10K C&K	2022-08-27	Martin Orazca
	ASSEMBLY C/W 4-1/16	3 10k C&k	2022-06-27	Martin Orozco

2.2 Gates Hydrostatic Pressure tester

	Test Equipment	Serial No	Last Cal Date	Cal Due Date
1	S-25-A-W	110AMCLO	2022-01-10	2023-01-10
2	S-25-A-W	110BSEUZ	2022-03-09	2023-03-09

Gates).

Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Re	sults
1	Hydrostatic Test Results (1)	Pass	Fail
2	Failure Mode	None	
3	Hose Dispatched to the customer?	Yes	No

Note:

1. Hydrostatic Pressure report is given in Appendix 1

3. Hose borescope inspection

3.2 Internal Failure Details

	Type of Failure	Location of Defect	Ref. Photo	Defect Details
1	Liner breach/ collapse	None		None
2	Bulges/ Blisters	None		None
3	Other breach/failures	None		None





Photos: Liner/Coupling Interface END 1

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Photos: Liner/Coupling Interface END 2

<u>Note</u>

Borescope completed? Yes

4. Summary

Hose assembly successfully tested to requested test pressure of 15000 PSI. with an hour hold. It was then serialized and stamped, as H2-082722-1 RE-TEST. The bore scope showed no blisters or delamination in the internal lining/tube area. External damages were repaired as agreed with the customer.

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APPENDIX 1: Pressure Chart



H2-8316

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feet

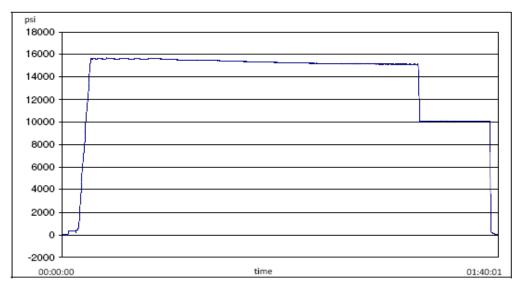
TEST REPORT

TEST OBJECT CUSTOMER Company: Serial number: H2-082722-1 Lot number: Production description: Description: Sales order #: 525035 740398454 (88000240 | Customer reference: Hose ID: 3 10k C&K SN:70035) Part number: TEST INFORMATION 3 10K C&K 3.0 x 4-1/16 10K Test procedure: Fitting 1: 15000.00 Test pressure: Part number: psi Test pressure hold: 3600.00 Description: Work pressure: 10000.00 Work pressure hold: 900.00 Fitting 2: 3.0 x 4-1/16 10K sec Length difference: 0.00 % Part number: Length difference: 0.00 Description:

Visual check: Length: 35

Pressure test result: PASS Length measurement result:

Test operator: Martin



Filename: D:\Certificates\Report_082722-H2-082722-1.pdf Page 1/2





H2-8316

8/27/2022 8:51:22 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2022-01-10	2023-01-10
S-25-A-W	110BSEUZ	2022-03-09	2023-03-09
Comment			

Filename: D:\Certificates\Report_082722-H2-082722-1.pdf Page 2/2



APPENDIX 2: Certificate of Conformance



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr.

Houston, TX. 77086

PHONE: +1 (281) 602-4100

FAX: +1 (281) 602-4147

EMAIL: gesna.quality@gates.com

WEB: www.gates.com/ollandgas

CERTIFICATE OF CONFORMANCE

This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically tested at **Gates Engineering & Services North America** facilities in Houston, TX, USA.

CUSTOMER:

HELMERICH & PAYNE, INC

CUSTOMER P.O.#:

740398454 (88000240 | SN:70035)

CUSTOMER P/N:

88000240 | SN:70035

PART DESCRIPTION:

INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16

FLANGES BX155 RING GROOVE EACH END

SALES ORDER #:

525035

QUANTITY: SERIAL #:

H2-082722-1 RE-TEST

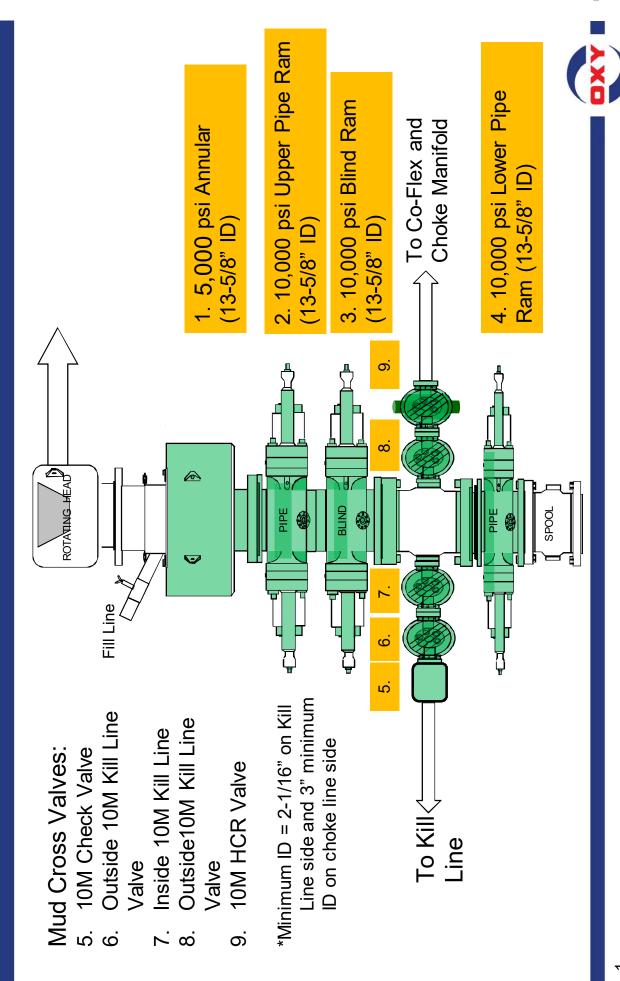
SIGNATURE: QUALITY ASSURANCE

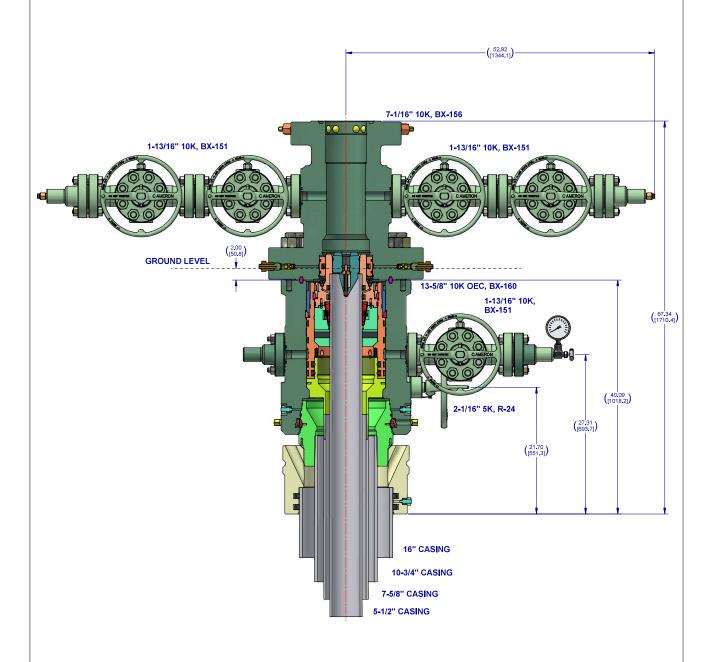
DATE: 8/27/2022

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5/10M BOP Stack

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Notes:

1. THIS IS A PROPOSAL DRAWING AND DIMENSIONS SHOWN ARE SUBJECT TO CHANGE DURING THE FINAL DESIGN PROCESS.

	CONF	IDEN	TIAL	
DO NOT SC.	ALE		CAMERON	SURFACE
DRAWN BY:	DATE			
D. GOTTUNG	2 Dec 21		A Schlumberger Company	
CHECKED BY:	DATE			
D, GOTTUNG	2 Dec 21		OXY 13-5/8" 10K AD/	APT
APPROVED BY:	DATE	1	16" X 10-3/4" X 7-5/8" >	C5-1/2"
D. GOTTUNG	2 Dec 21			
5.617 LBS INITIAL USE BM: 55 434 KG		SHEET 4 of 4	SD-053434-94-	.05 REV:
	DRAWN BY: D. GOTTUNG CHECKED BY: D. GOTTUNG APPROVED BY: D. GOTTUNG	D. GOTTUNG 2 Dec 21	DATE DATE DATE D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 3 CHECKED BY: SHEET SHEET SHEET SHEET CHECKED BY: SHEET SHEET SHEET CHECKED BY: SHEET SHEET CHECKED BY: SHEET SHEET CHECKED BY: SHEET CHEC	DAVID DATE DATE

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.
 - CSG Test (Intermediate)
- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
 - For Production: The design pressure test should be the greater of (1) the planned test pressure prior to stimulation down the casing. (2) the regulatory test pressure, and (3) the expected gas lift system pressure. The design test fluid should be the fluid associated with pressure test having the greatest pressure.

External:

- For Drilling: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.
- For Production: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Column (Surface)

- Internal: Assumes a full column of gas in the casing with a Gas/Oil Gradient of 0.1 psi/ft
 in the absence of better information. It is limited to the controlling pressure based on the
 fracture pressure at the shoe or the maximum expected pore pressure within the next
 drilling interval, whichever results in a lower surface pressure.
- External: Fluid gradient below TOC, pore pressure from the TOC to the Intermediate CSG shoe (if applicable), and MW of the drilling mud that was in the hole when the CSG was run from Intermediate CSG shoe to surface.

Bullheading (Surface / Intermediate)

- Internal: The string must be designed to withstand a pressure profile based on the fracture pressure at the casing shoe with a column of water above the shoe plus an additional surface pressure (in psi) of 0.02 X MD of the shoe to account for pumping friction pressure.
- External: Mud weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Gas Kick (Intermediate)

- The string must be designed to at least a gas kick load case unless the rig is unable to detect a kick. For the gas kick load case, the internal pressure profile must be based on a minimum volume of 50 bbl or the minimum kick detection capability of the rig, whichever is greater, and a kick intensity of 2.0 ppg for Class 1, 1.0 ppg of Class 2, and 0.5 ppg for Class 3 and 4 wells.
- Internal: Influx depth of the maximum pore pressure of 0.55 "gas kick gravity" of gas to surface while drilling the next hole section.
- External: Mud weight to the TOC, cement mix water gradient below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Producing (Production)

- Internal: SITP plus a packer fluid gradient to the shoe or top of packer.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Tubing Leak Near Surface While Stimulating (Production)

- Internal: Surface pressure or pressure-relief system pressure, whichever is lower plus packer fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

Injection / Stimulation Down Casing (Production)

- Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run. Cementing (Surface / Intermediate / Production)
- o Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

Axial: Buoyant weight of the string plus cement plug bump pressure load.



CONNECTION DATA SHEET



Make-up Torque (ft-lb) 20,000 MIN 22,500 OPTI 25,000 MAX Torque with Sealability (ft-lb) 36,000 MTS Locked Flank Torque (ft-lb) 4,500 MIN 15,750 MAX

PIPE BODY PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Wall Thickness	0.361	in.
Minimum Wall Thickness	87.5	%
Nominal Weight (API)	20.00	lb/ft
Plain End Weight	19.83	lb/ft
Drift	4.653	in.
Grade Type	Controlle	ed Yield
Grade Type Minimum Yield Strength	Controlle	ed Yield <i>ksi</i>
Minimum Yield Strength	110	ksi
Minimum Yield Strength Maximum Yield Strength	110 125	ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength	110 125 140	ksi ksi ksi
Minimum Yield Strength Maximum Yield Strength Minimum Ultimate Tensile Strength Pipe Body Yield Strength	110 125 140 641	ksi ksi ksi klb

CONNECTION PROPERTIES

Connection Type	Semi-Pr	emium Integral Semi-Flu
Nominal Connection OD	5.783	in.
Nominal Connection ID	4.718	in.
Make-up Loss	5.965	in.
Tension Efficiency	90	% Pipe Body
Compression Efficiency	90	% Pipe Body
Internal Pressure Efficiency	100	% Pipe Body
External Pressure Efficiency	100	% Pipe Body

JOINT PERFORMANCES

Tension Strength	577	klb
Compression Strength	577	klb
Internal Pressure Resistance	12,640	psi
External Pressure Resistance	11,110	psi
Maximum Bending, Structural	78	°/100 ft
Maximum Bending, with Sealability(1)	30	°/100 ft

(1) Sealability rating demonstrated as per API RP 5C5 / ISO 13679



(2) MTS: Maximum Torque with Sealability.

BOOST YOUR EFFICIENCY, REDUCE COSTS AND ENSURE 100% WELL INTEGRITY WITH VAM® FIELD SERVICE

Scan the QR code to contact us



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

ACKNOWLEDGMENTS

Action 489575

ACKNOWLEDGMENTS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	489575	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

ACKNOWLEDGMENTS

I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.

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 489575

CONDITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	489575	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
lesliereeves	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/29/2025
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/29/2025
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	9/2/2025
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	9/2/2025
jeffrey.harrison	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	9/2/2025
jeffrey.harrison	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	9/2/2025
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	9/2/2025