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Operator Certification Data Report

01/27/2026

Operator

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: SARA GUTHRIE **Signed on:** 06/04/2025

Title: Regulatory Advisor

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON **State:** TX **Zip:** 77046

Phone: (713)497-2851

Email address: SARA_GUTHRIE@OXY.COM

Field

Representative Name: Michael Wilson

Street Address:

City: **State:** **Zip:**

Phone: (575)631-6618

Email address: michael_wilson@oxy.com

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BUREAU OF LAND MANAGEMENT

Application Data
01/27/2026

APD ID: 10400105263
Submission Date: 06/12/2025
Operator Name: OXY USA INCORPORATED
Well Name: SAPPHIRE CC 22_34 FEDERAL COM
Well Number: 13H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Section 1 - General

APD ID: 10400105263
Tie to previous NOS? N
Submission Date: 06/12/2025
BLM Office: Carlsbad
User: SARA GUTHRIE
Title: Regulatory Advisor
Federal/Indian APD: FED
Is the first lease penetrated for production Federal or Indian? FED
Lease number: NMNM81586
Lease Acres:
Surface access agreement in place?
Allotted?
Reservation:
Agreement in place? NO
Federal or Indian agreement:
Agreement number:
Agreement name:
Keep application confidential? N
Permitting Agent? NO
APD Operator: OXY USA INCORPORATED
Operator letter of

Operator Info

Operator Organization Name: OXY USA INCORPORATED
Operator Address: P.O. BOX 1002
Zip: 93276-1002
Operator PO Box:
Operator City: TUPMAN
State: CA
Operator Phone: (661)763-6046
Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO
Master Development Plan name:
Well in Master SUPO? NO
Master SUPO name:
Well in Master Drilling Plan? NO
Master Drilling Plan name:
Well Name: SAPPHIRE CC 22_34 FEDERAL COM
Well Number: 13H
Field/Pool or Exploratory? Field and Pool
Field Name: PIERCE CROSSING
Pool Name: BONE SPRING, EAST

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Is the proposed well in an area containing other mineral resources? USEABLE WATER,NATURAL GAS,OIL

Is the proposed well in a Helium production area? N **Use Existing Well Pad?** N **New surface disturbance?**

Type of Well Pad: MULTIPLE WELL **Multiple Well Pad Name:** CEDCAN_24S29E **Number:** 22_4

Well Class: HORIZONTAL **Number of Legs:** 1

Well Work Type: Drill

Well Type: OIL WELL

Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: **Distance to nearest well:** 30 FT **Distance to lease line:** 352 FT

Reservoir well spacing assigned acres Measurement: 1920 Acres

Well plat: SAPPHIRECC22_34FEDCOM13H_C102_20250603081053.pdf

SAPPHIRECC22_34FEDCOM13H_Site_Plan_20250603081102.pdf

Well work start Date: 06/03/2026 **Duration:** 45 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83 **Vertical Datum:** NAVD88

Survey number: **Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	352	FNL	872	FEL	24S	29E	22	Aliquot NENE	32.2092726	-103.9665702	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	2938			N
KOP Leg #1	300	FSL	1960	FEL	24S	29E	15	Aliquot SWSE	32.2110769	-103.9700866	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-4350	7450	7288	N

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP Leg #1-1	100	FNL	1960	FEL	24S	29E	22	Aliquot NWNE	32.2099774	-103.9700863	EDDY	NEW MEXICO	NEW MEXICO	F	FEE	-4999	8446	7937	Y
PPP Leg #1-2	1327	FNL	1958	FEL	24S	29E	22	Aliquot SWNE	32.2066049	-103.9700816	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 81586	-5000	9502	7938	Y
PPP Leg #1-3	1328	FNL	1934	FEL	24S	29E	27	Aliquot SWNE	32.192012	-103.9700611	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 94651	-5008	14811	7946	Y
EXIT Leg #1	100	FSL	1960	FEL	24S	29E	34	Aliquot SWSE	32.166806	-103.9700256	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 118714	-5021	23980	7959	Y
BHL Leg #1	20	FSL	1960	FEL	24S	29E	34	Aliquot SWSE	32.1665861	-103.9700216	EDDY	NEW MEXICO	NEW MEXICO	F	NMNM 118714	-5021	24061	7959	N

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Drilling Plan Data Report
01/27/2026

APD ID: 10400105263
Submission Date: 06/12/2025
Operator Name: OXY USA INCORPORATED
Well Name: SAPPHIRE CC 22_34 FEDERAL COM
Well Number: 13H
Well Type: OIL WELL
Well Work Type: Drill

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Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
17280136	RUSTLER	2938	261	261	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
17280137	SALADO	2287	651	651	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
17280138	CASTILE	1477	1461	1461	ANHYDRITE	OTHER : SALT	N
17280139	DELAWARE	-72	3010	3010	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
17280140	BELL CANYON	-109	3047	3047	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
17280141	CHERRY CANYON	-950	3888	3896	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
17280142	BRUSHY CANYON	-2184	5122	5186	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
17280143	BONE SPRING	-3786	6724	6861	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
17280144	BONE SPRING 1ST	-4800	7738	7947	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M
Rating Depth: 7959

Equipment: 13-5/8" 5M Annular, 5M Blind Ram, 5M Double Ram

Requesting Variance? YES

Variance request: Request for the use of a flexible choke line from the BOP to Choke Manifold.

Testing Procedure: 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. OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Choke Diagram Attachment:

SAPPHIRECC22_34FEDCOM13H_ChkManifolds_20250603120131.pdf

BOP Diagram Attachment:

SAPPHIRECC22_34FEDCOM13H_BOP_20250603120318.pdf

SAPPHIRECC22_34FEDCOM13H_FlexHoseCert_20250603120336.pdf

SAPPHIRECC22_34FEDCOM13H_13inADAPT_13.375in_7in_10x10_20250603120349.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	331	0	331	2938	2607	331	J-55	54.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	7350	0	7188	3698	-4250	7350	HCL-80	40	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
3	PRODUCTION	8.75	7.0	NEW	API	Y	0	7900	0	7624	3698	-4686	7900	P-110	32	OTHER - DWC/C	1	1.1	BUOY	1.4	BUOY	1.4
4	PRODUCTION	8.5	5.5	NEW	API	Y	7900	24061	7624	7959	-4686	-5021	16161	P-110	20	OTHER - DWC/C-HT-IS	1	1.1	BUOY	1.4	BUOY	1.4

Casing Attachments

Casing ID: 1 **String** SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SAPPHIRECC22_34FEDCOM13H_CsgCriteria_20250603135655.pdf

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Casing Attachments

Casing ID: 2 **String** INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SAPPHIRECC22_34FEDCOM13H_CsgCriteria_20250603135911.pdf

Casing ID: 3 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

SAPPHIRECC22_34FEDCOM13H_VAM_DWC_C_7.000in_32ppf_P110RY_20251028133845.pdf

Casing Design Assumptions and Worksheet(s):

SAPPHIRECC22_34FEDCOM13H_CsgCriteria_20250603140000.pdf

Casing ID: 4 **String** PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

SAPPHIRECC22_34FEDCOM13H_VAM_DWC_C_HT_IS_5.500in_20ppf_P110RY_20251028133937.pdf

Casing Design Assumptions and Worksheet(s):

SAPPHIRECC22_34FEDCOM13H_CsgCriteria_20250612115003.pdf

Section 4 - Cement

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	331	346	1.33	14.8	460	100	Class C	Accelerator
INTERMEDIATE	Lead	2	0	5436	1239	1.71	13.3	2119	25	Class C	Accelerator
INTERMEDIATE	Lead	2	5436	7350	375	1.68	13.2	630	5	Class C	Retarder, Dispersant
PRODUCTION	Lead		6850	24061	2873	1.84	13.3	5286	25	Class C	Retarder

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: PVT/MD Totco/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	331	WATER-BASED MUD	8.6	8.8							
331	7350	OTHER : SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
7350	24061	OTHER : WATER-BASED MUD OR OIL-BASED MUD	8	9.6							

Section 6 - Test, Logging, Coring

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

GR from TD to surface (horizontal well vertical portion of hole)
Mud Log from Bone Spring - TD
CBL (production string) - to be ran by completions.

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

GAMMA RAY LOG,CEMENT BOND LOG,DIRECTIONAL SURVEY,MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned at this time.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3974 **Anticipated Surface Pressure:** 2223

Anticipated Bottom Hole Temperature(F): 144

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

SAPPHIRECC22_34FEDCOM13H_H2S1_20250603145541.pdf

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

SAPPHIRECC22_34FEDCOM13H_H2S2_20250603145550.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SAPPHIRECC22_34FEDCOM13H_DirectPlan_20250603145614.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

SAPPHIRECC22_34FEDCOM13H_SpudRigData_20250603145634.pdf
SAPPHIRECC22_34FEDCOM13H_NGMP_WMP_20250603150625.pdf
SAPPHIRECC22_34FEDCOM13H_DrillPlan_20251028134407.pdf

Other Variance request(s)?: Y

Other Variance attachment:

SAPPHIRECC22_34FEDCOM13H_BOPBreakTestingVariance_20250604111932.pdf
SAPPHIRECC22_34FEDCOM13H_BradenheadCBLVariance_20250604111942.pdf
SAPPHIRECC22_34FEDCOM13H_OfflineCementVariance_20250604111955.pdf
SAPPHIRECC22_34FEDCOM13H_ProdCsgAnnClearanceVariance_20250604112002.pdf

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SUPO Data Report
01/27/2026

APD ID: 10400105263
Submission Date: 06/12/2025
Operator Name: OXY USA INCORPORATED
Well Name: SAPPHIRE CC 22_34 FEDERAL COM
Well Number: 13H
Well Type: OIL WELL
Well Work Type: Drill

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Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

SAPPHIRECC22_34FEDCOM13H_Existing_Roads_20250604112051.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT
Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

SAPPHIRECC22_34FEDCOM13H_New_Roads_20250604113220.pdf

New road type: LOCAL

Length: 10923 Feet
Width (ft.): 30

Max slope (%): 0
Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

New road access erosion control: Watershed diversion every 200', if needed.

New road access plan or profile prepared? N

New road access plan

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Access road engineering design? N

Access road engineering design

Turnout? N

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: CALICHE

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: If available

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: CULVERT

Drainage Control comments: Watershed diversion every 200', if needed.

Road Drainage Control Structures (DCS) description: Watershed diversion every 200', if needed.

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Existing Well map Attachment:

SAPPHIRECC22_34FEDCOM13H_1_Mile_Existing_Well_Map_20250604113621.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Production Facilities description: In the event the well is found productive, the Cedar Canyon 21 CTB would be utilized and the necessary production equipment will be installed at the well site.
Production Facilities map:

SAPPHIRECC22_34FEDCOM13H_Lease_Facility_20250604113829.pdf

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING

OTHER **Describe use type:** DRILLING

INTERMEDIATE/PRODUCTION CASING

Source latitude: **Source longitude:**

Source datum:

City:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

PIPELINE

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

Water source volume (barrels): 2000 **Source volume (acre-feet):** 0.25778619

Source volume (gal): 84000

Water source and transportation

SAPPHIRECC22_34FEDCOM13H_WtrSrcGRR_20250604114404.pdf

SAPPHIRECC22_34FEDCOM13H_Water___Caliche_Source_Map_20250604114356.pdf

SAPPHIRECC22_34FEDCOM13H_WtrSrcMesq_20250604114410.pdf

Water source comments: This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations (Gregory Rockhouse, Mesquite) in the area and will be hauled to location by transport truck using existing and proposed roads.
New water well? N

New Water Well Info

Well latitude: **Well Longitude:** **Well datum:**

Well target aquifer:

Est. depth to top of aquifer(ft): **Est thickness of aquifer:**

Aquifer comments:

Aquifer documentation:

Well depth (ft): **Well casing type:**

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Well casing outside diameter (in.):

Well casing inside diameter (in.):

New water well casing?

Used casing source:

Drilling method:

Drill material:

Grout material:

Grout depth:

Casing length (ft.):

Casing top depth (ft.):

Well Production type:

Completion Method:

Water well additional information:

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Using any construction materials: YES

Construction Materials description: Primary All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. Secondary The secondary way of obtaining caliche to build locations and roads will be by turning over the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel: a. The top 6 of topsoil is pushed off and stockpiled along the side of the location. b. An approximate 120 X 120 area is used within the proposed well site to remove caliche. c. Subsoil is removed and piled alongside the 120 X 120 within the pad site. d. When caliche is found, material will be stockpiled within the pad site to build the location and road. e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road. f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the site plan included with this APD.

Construction Materials source location

SAPPHIRECC22_34FEDCOM13H_Water___Caliche_Source_Map_20250604114447.pdf

Section 7 - Methods for Handling

Waste type: DRILLING

Waste content description: Water-Based Cuttings, Water-Based Mud, Oil-Based Cuttings, Oil-Based Mud, Produced Water

Amount of waste: 1504 barrels

Waste disposal frequency : Daily

Safe containment description: Haul-Off Bins

Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

Disposal type description:

Disposal location description: An approved facility that can process drill cuttings, drill fluids, flowback water, produced water, contaminated soils, and other non-hazardous wastes. Methods of Handling Waste Material: a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins.

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill. c. The supplier, including broken sacks, will pickup slats remaining after completion of well. d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete. e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) **Reserve pit width (ft.)**

Reserve pit depth (ft.) **Reserve pit volume (cu. yd.)**

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

Description of cuttings location A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility.

Cuttings area length (ft.) **Cuttings area width (ft.)**

Cuttings area depth (ft.) **Cuttings area volume (cu. yd.)**

Is at least 50% of the cuttings area in cut?

Cuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Section 9 - Well Site

Well Site Layout Diagram:

SAPPHIRECC22_34FEDCOM13H_Site_Plan_20250604114928.pdf

SAPPHIRECC22_34FEDCOM13H_ClosedLoop_20250604114939.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance **Multiple Well Pad Name:** CEDCAN_24S29E

Multiple Well Pad Number: 22_4

Recontouring

SAPPHIRECC22_34FEDCOM13H_Site_Plan_20250604115156.pdf

SAPPHIRECC22_34FEDCOM13H_Cut___Fill_20250604115204.pdf

Drainage/Erosion control construction: Reclamation to be wind rowed as needed to control erosion.

Drainage/Erosion control reclamation: Reclamation to be wind rowed as needed to control erosion.

Well pad proposed disturbance (acres): 7.16	**Well pad interim reclamation (acres):** 0.6	**Well pad long term disturbance (acres):** 6.56
Road proposed disturbance (acres): 7.52	**Road interim reclamation (acres):** 2.51	**Road long term disturbance (acres):** 5.02
Powerline proposed disturbance (acres): 2.64	**Powerline interim reclamation (acres):** 2.64	**Powerline long term disturbance (acres):** 0
Pipeline proposed disturbance (acres): 16.96	**Pipeline interim reclamation (acres):** 11.31	**Pipeline long term disturbance (acres):** 5.65
Other proposed disturbance (acres): 0	**Other interim reclamation (acres):** 0	**Other long term disturbance (acres):** 0
Total proposed disturbance: 34.28	**Total interim reclamation:** 17.060000000000002	**Total long term disturbance:** 17.229999999999997

Disturbance Comments:

Reconstruction method: If the well is deemed commercially productive, caliche from the areas of the pad site not required for operations will be reclaimed. The original topsoil will be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad will be contoured, as close as possible, to match the original topography, and the are will be seeded with an approved BLM mixture to re-establish vegetation. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche will be removed from the pad and transported to the original caliche pit or used for other drilling locations. The road will be reclaimed as directed by the BLM. the original topsoil will again be returned to the pad and contoured, as close as possible, to the original topography and the area will be seeded with an approved BLM mixture to re-establish vegetation.

Topsoil redistribution: The original topsoil will be returned to the area of the drill pad not necessary to operate the well.

Soil treatment: To be determined by BLM.

Existing Vegetation at the well pad: To be determined by BLM at onsite.

Existing Vegetation at the well pad

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Existing Vegetation Community at the road: To be determined by BLM at onsite.

Existing Vegetation Community at the road

Existing Vegetation Community at the pipeline: To be determined by BLM at onsite.

Existing Vegetation Community at the pipeline

Existing Vegetation Community at other disturbances: To be determined by BLM at onsite.

Existing Vegetation Community at other disturbances

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed

Seed Table

Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre

Seed reclamation

Operator Contact/Responsible Official

First Name: Michael **Last Name:** Wilson

Phone: (575)631-6618 **Email:** michael_wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Existing invasive species treatment

Weed treatment plan description: To be determined by BLM.

Weed treatment plan

Monitoring plan description: To be determined by BLM.

Monitoring plan

Success standards: To be determined by BLM.

Pit closure description: NA

Pit closure attachment:

Section 11 - Surface

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Surface use plan certification: YES

Surface use plan certification document:

SAPPHIRECC22_34FEDCOM13H_WarrantyDeed_20250710064654.pdf

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: The private owner of the property is Oxy USA Inc. which conveys to itself the use of the property.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Surface use plan certification: YES

Surface use plan certification document:

SAPPHIRECC22_34FEDCOM13H_WarrantyDeed_20250710063011.pdf

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: The private owner of the property is OXY USA Inc. which conveys to itself the use of the property.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Disturbance type: OTHER

Describe: ELECTRIC LINES

Surface Owner: BUREAU OF LAND MANAGEMENT,PRIVATE OWNERSHIP

Other surface owner description:

BIA Local Office:

BOR Local Office:

COE Local Office:

DOD Local Office:

NPS Local Office:

State Local Office:

Military Local Office:

USFWS Local Office:

Other Local Office:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

USFS Region:

USFS Forest/Grassland: **USFS Ranger District:**

Surface use plan certification: YES

Surface use plan certification document:

SAPPHIRECC22_34FEDCOM13H_WarrantyDeed_20250710063619.pdf

Surface access agreement or bond: AGREEMENT

Surface Access Agreement Need description: The Private owner of the property is OXY USA Inc. which conveys to itself the use of the property.

Surface Access Bond BLM or Forest Service:

BLM Surface Access Bond number:

USFS Surface access bond number:

Section 12 - Other

Right of Way needed? Y **Use APD as ROW?** Y

ROW Type(s): 281001 ROW - ROADS,285003 ROW – POWER TRANS,288100 ROW – O&G Pipeline,288101 ROW – O&G Facility Sites,289001 ROW- O&G Well Pad

ROW

SUPO Additional Information: Permian Basin MOA : To be submitted after APD acceptance. GIS shapefiles available for BLM.

Use a previously conducted onsite? N

Previous Onsite information:

Other SUPO

SAPPHIRECC22_34FEDCOM13H_Staking_Sheet_20250604132019.pdf

SAPPHIRECC22_34FEDCOM13H_NGMP_WMP_20250604132025.pdf

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

PWD Data Report
01/27/2026

APD ID: 10400105263 **Submission Date:** 06/12/2025

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Well Type: OIL WELL **Well Work Type:** Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined

Would you like to utilize Lined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Lined pit Monitor description:

Lined pit Monitor

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

Section 3 - Unlined

Would you like to utilize Unlined Pit PWD options? N

Produced Water Disposal (PWD) Location:

PWD disturbance (acres): **PWD surface owner:**

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

Unlined pit Monitor

Do you propose to put the produced water to beneficial use?

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

Precipitated Solids Permit

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

State

Unlined Produced Water Pit Estimated

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information

Section 4 -

Would you like to utilize Injection PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number: **Injection well name:**

Assigned injection well API number? **Injection well API number:**

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection

Underground Injection Control (UIC) Permit?

UIC Permit

Section 5 - Surface

Would you like to utilize Surface Discharge PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

Other PWD Surface Owner Description :

Surface discharge PWD discharge volume (bbl/day):

Surface Discharge NPDES Permit?

Surface Discharge NPDES Permit attachment:

Surface Discharge site facilities information:

Surface discharge site facilities map:

Operator Name: OXY USA INCORPORATED

Well Name: SAPPHIRE CC 22_34 FEDERAL COM **Well Number:** 13H

Section 6 -

Would you like to utilize Other PWD options? N

Produced Water Disposal (PWD) Location:

PWD surface owner: **PWD disturbance (acres):**

PWD Surface Owner Description:

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type

Have other regulatory requirements been met?

Other regulatory requirements

AFMSS
U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Bond Info Data
01/27/2026

APD ID: 10400105263
Submission Date: 06/12/2025
Operator Name: OXY USA INCORPORATED
Well Name: SAPPHIRE CC 22_34 FEDERAL COM
Well Number: 13H
Well Type: OIL WELL
Well Work Type: Drill

Highlighted data reflects the most recent changes
Show Final Text

Bond

Federal/Indian APD: FED

BLM Bond number: ESB000226

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Form 3160-3
(October 2024)

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NMNM81586

6. If Indian, Allotee or Tribe Name:

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☑ Multiple Zone

7. If Unit or CA Agreement, Name and No.:

8. Lease Name and Well No.: SAPPHIRE CC 22 34 FEDERAL COM 13H

2. Name of Operator: OXY USA INCORPORATED

9. API Well No.: 30-015-58113

3a. Address: 5 GREENWAY PLAZA SUITE 110, HOUSTON, TX 77046

3b. Phone No. *(include area code)*: (713) 366-5716

10. Field and Pool, or Exploratory: PIERCE CROSSING/BONE SPRING, EA

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NENE / 352 FNL / 872 FEL / LAT 32.2092726 / LONG -103.9665702

At proposed prod. zone: SWSE / 20 FSL / 1960 FEL / LAT 32.1665861 / LONG -103.9700216

11. Sec., T. R. M. or Blk. and Survey or Area: SEC 22/T24S/R29E/NMP

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: EDDY

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): 352 feet

16. No of acres in lease:

17. Spacing Unit dedicated to this well: 1920.0

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: 30 feet

19. Proposed Depth: 7959 feet / 24061 feet

20. BLM/BIA Bond No. in file: FED: ESB000226

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 2938 feet

22. Approximate date work will start*: 06/03/2026

23. Estimated duration: 45 days

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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date
(Electronic Submission)	SARA GUTHRIE / Ph: (713) 366-5716	06/12/2025

Title: Regulatory Advisor

Approved by *(Signature)*	Name *(Printed/Typed)*	Date
(Electronic Submission)	CHRISTOPHER WALLS / Ph: (575) 234-2234	01/22/2026

Title	Office
Petroleum Engineer	Carlsbad Field 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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 01/22/2026

Additional Operator Remarks

Location of Well

0. SHL: NENE / 352 FNL / 872 FEL / TWSP: 24S / RANGE: 29E / SECTION: 22 / LAT: 32.2092726 / LONG: -103.9665702 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 100 FNL / 1960 FEL / TWSP: 24S / RANGE: 29E / SECTION: 22 / LAT: 32.2099774 / LONG: -103.9700863 (TVD: 7937 feet, MD: 8446 feet)

PPP: SWNE / 1327 FNL / 1958 FEL / TWSP: 24S / RANGE: 29E / SECTION: 22 / LAT: 32.2066049 / LONG: -103.9700816 (TVD: 7938 feet, MD: 9502 feet)

PPP: SWNE / 1328 FNL / 1934 FEL / TWSP: 24S / RANGE: 29E / SECTION: 27 / LAT: 32.192012 / LONG: -103.9700611 (TVD: 7946 feet, MD: 14811 feet)

BHL: SWSE / 20 FSL / 1960 FEL / TWSP: 24S / RANGE: 29E / SECTION: 34 / LAT: 32.1665861 / LONG: -103.9700216 (TVD: 7959 feet, MD: 24061 feet)

BLM Point of Contact

Name: TENILLE C MOLINA
Title: Land Law Examiner
Phone: (575) 234-2224
Email: TCMOLINA@BLM.GOV

C-102

Submit Electronically
Via OCD Permitting

State of New Mexico
Energy, Minerals, & Natural Resources Department
OIL CONSERVATION DIVISION

Revised July 9, 2024
PAGE 1 OF 2

Submittal Type: [X] Initial Submittal [ ] Amended Report [ ] As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name
30-015-58113	96473	PIERCE CROSSING; BONESPRING, EAST

Property Code	Property Name	Well Number
338097	SAPPHIRE CC 22_34 FED COM	13H

OGRID No.	Operator Name	Ground Level Elevation
16696	OXY USA INC.	2938'

Surface Owner: [ ] State [ ] Fee [ ] Tribal [✓] Federal
Mineral Owner: [ ] State [ ] Fee [ ] Tribal [✓] Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
A	22	24S	29E		352' FNL	872' FEL	32.20927257	-103.96657027	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	34	24S	29E		20' FSL	1960' FEL	32.16658612	-103.97002169	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1920.00	INFILL	PENDING- Sapphire 5H	N	N/A

Order Numbers: N/A
Well setbacks are under Common Ownership: [ ] Yes [✓] No

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	15	24S	29E		300' FSL	1960' FEL	32.21107697	-103.97008661	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
B	22	24S	29E		100' FNL	1960' FEL	32.20997741	-103.97008636	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County
O	34	24S	29E		100' FSL	1960' FEL	32.16680603	-103.97002567	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type: [X] Horizontal [ ] Vertical	Ground Floor Elevation
N/A		2938'

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.

Sara Guthrie — Signature
5/8/2025 — Date

Sara Guthrie — Printed Name

sara_guthrie@oxy.com — Email Address

SURVEYOR CERTIFICATIONS

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Certificate Number	Date of Survey
21653	APRIL 10, 2025

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

ACREAGE DEDICATION PLATS

SAPPHIRE CC 22_34 FED COM 13H

SHL (NAD83)
X:654771.02' / Y:440060.99'
LAT:32.20927257 / LON:-103.96657027

SHL (NAD27)
X:613586.99' / Y:440002.15'
LAT:32.20914960 / LON:-103.96608243

KOP (NAD83)
X:653681.25' / Y:440713.70'
LAT:32.21107697 / LON:-103.97008661

KOP (NAD27)
X:612497.24' / Y:440654.85'
LAT:32.21095403 / LON:-103.96959861

FTP (NAD83)
X:653682.68' / Y:440313.70'
LAT:32.20997741 / LON:-103.97008636

FTP (NAD27)
X:612498.66' / Y:440254.86'
LAT:32.20985446 / LON:-103.96959840

PPP-1 (NAD83)
X:653688.29' / Y:439086.87'
LAT:32.20660498 / LON:-103.97008163

PPP-1 (NAD27)
X:612504.24' / Y:439028.05'
LAT:32.20648199 / LON:-103.96959379

PPP-2 (NAD83)
X:653700.43' / Y:436433.13'
LAT:32.19931010 / LON:-103.97007138

PPP-2 (NAD27)
X:612516.31' / Y:436374.37'
LAT:32.19918703 / LON:-103.96958381

PPP-3 (NAD83)
X:653712.57' / Y:433778.23'
LAT:32.19201203 / LON:-103.97006113

PPP-3 (NAD27)
X:612528.38' / Y:433719.52'
LAT:32.19188887 / LON:-103.96957381

PPP-4 (NAD83)
X:653730.78' / Y:429795.32'
LAT:32.18106338 / LON:-103.97004573

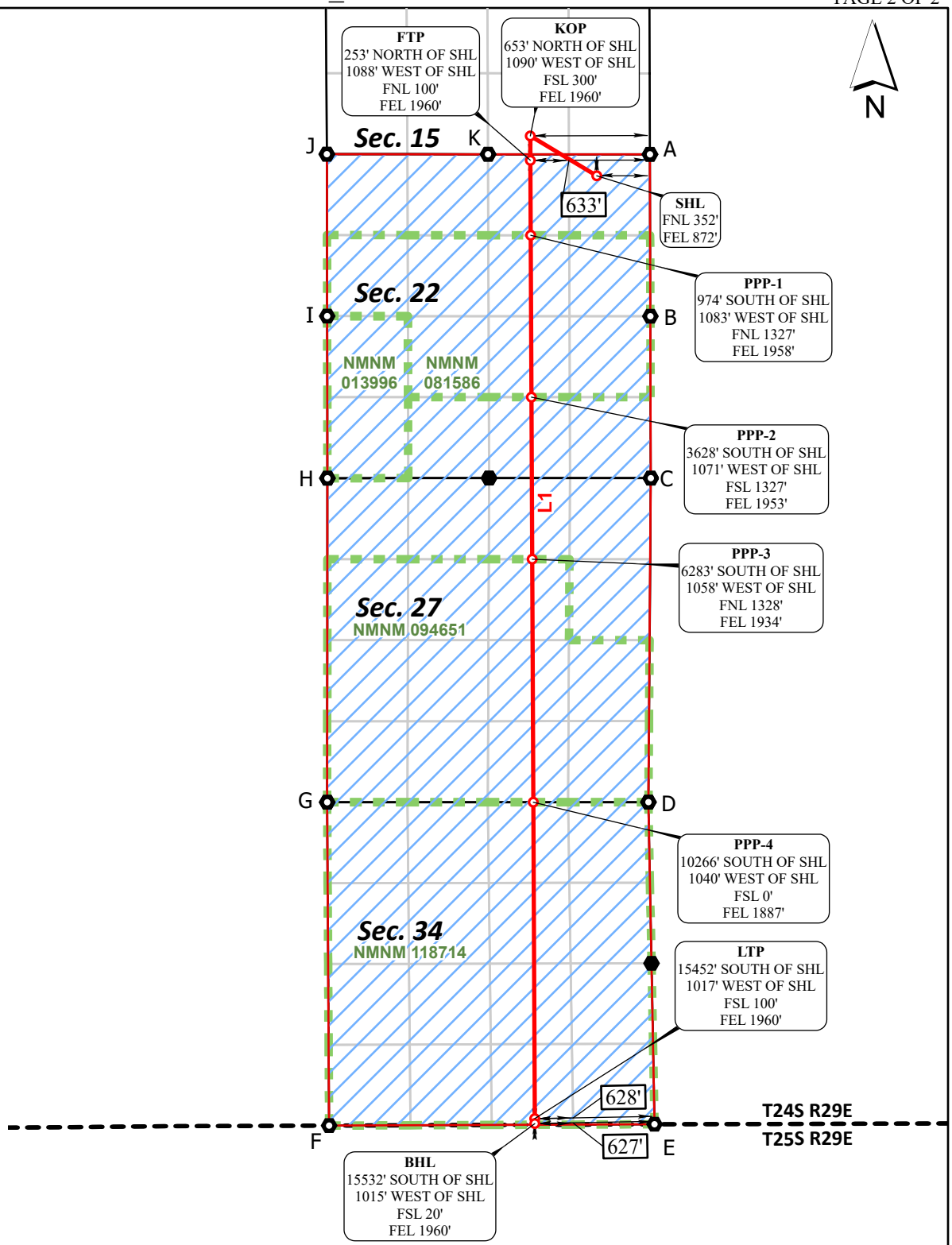
PPP-4 (NAD27)
X:612546.49' / Y:429736.70'
LAT:32.18094009 / LON:-103.96955882

LTP (NAD83)
X:653754.50' / Y:424608.79'
LAT:32.16680603 / LON:-103.97002567

LTP (NAD27)
X:612570.07' / Y:424550.27'
LAT:32.16668257 / LON:-103.96953927

BHL (NAD83)
X:653756.00' / Y:424528.79'
LAT:32.16658612 / LON:-103.97002169

BHL (NAD27)
X:612571.57' / Y:424470.27'
LAT:32.16646266 / LON:-103.96953529



CORNER COORDINATES NAD 83, SPCS NM EAST	CORNER COORDINATES NAD 27, SPCS NM EAST
A - X: 655642.43' / Y:440412.73'	A - X: 614458.41' / Y:440353.89'
B - X: 655649.27' / Y:437759.13'	B - X: 614465.17' / Y:437700.34'
C - X: 655656.67' / Y:435105.51'	C - X: 614472.50' / Y:435046.77'
D - X: 655617.33' / Y:429796.04'	D - X: 614433.02' / Y:429737.42'
E - X: 655716.57' / Y:424516.95'	E - X: 614532.13' / Y:424458.43'
F - X: 650385.27' / Y:424494.77'	F - X: 609200.86' / Y:424436.25'
G - X: 650353.41' / Y:429794.04'	G - X: 609169.14' / Y:429735.41'
H - X: 650357.20' / Y:435104.61'	H - X: 609173.06' / Y:435045.87'
I - X: 650353.19' / Y:437761.60'	I - X: 609169.13' / Y:437702.81'
J - X: 650347.93' / Y:440415.18'	J - X: 609163.93' / Y:440356.34'
K - X: 652989.19' / Y:440414.04'	K - X: 611805.17' / Y:440355.20'

*FTP TO LTP LINE BEARINGS

LINE	BEARING
L1	S 00°15'43" E ~ 15705.08'

*FTP TO LTP LEASE DISTANCES

TRACT	DISTANCE
NMNM 081586	2653.77'
NMNM 094651	3982.95'
NMNM 118714	5186.59'
TOTAL	11823.31'

Drill Line Events | Section Corners | Drill Line | Dimension Lines | Federal Leases | HSU | HSU Corners

JOB No. 20251082_15080
REV 3 NDS 4/10/2025

All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99978652 and a Convergence Angle: 0.18505000°

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

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: OXY USA INC. **OGRID:** 16696 **Date:** 5 / 13 / 2025

II. Type: ☑ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
SEE ATTACHED						

IV. Central Delivery Point Name: CEDAR CANYON 21 CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SEE ATTACHED						

VI. Separation Equipment: ☑ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☑ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☑ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. ☐ 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 ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

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

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

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;
- **(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.

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:	Sara Guthrie
Printed Name:	Sara Guthrie
Title:	Regulatory Advisor
E-mail Address:	sara_guthrie@oxy.com
Date:	5/13/2025
Phone:	713-497-2851

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
SAPPHIRE CC 22_34 FED COM 13H	Pending	A-22-T24S-R29E	352' FNL & 872' FEL	1900	7000	3500
SAPPHIRE CC 22_34 FED COM 14H	Pending	A-22-T24S-R29E	352' FNL & 842' FEL	1900	7000	3500
SAPPHIRE CC 22_34 FED COM 11H	Pending	C-22-T24S-R29E	621' FNL & 1569' FWL	1900	7000	3500
SAPPHIRE CC 22_34 FED COM 12H	Pending	C-22-T24S-R29E	651' FNL & 1573' FWL	1900	7000	3500

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SAPPHIRE CC 22_34 FED COM 13H	Pending	04/03/2027	05/19/2027	05/30/2027	06/24/2027	06/26/2027
SAPPHIRE CC 22_34 FED COM 14H	Pending	04/11/2027	05/04/2027	05/30/2027	06/24/2027	06/26/2027
SAPPHIRE CC 22_34 FED COM 11H	Pending	04/12/2027	05/29/2027	06/07/2027	06/25/2027	06/27/2027
SAPPHIRE CC 22_34 FED COM 12H	Pending	04/20/2027	05/14/2027	06/07/2027	06/25/2027	06/27/2027

Central Delivery Point Name : Cedar Canyon 21 CTB

Part VI. Separation Equipment

Operator will size the flowback separator to handle 4,000 Bbls of fluid and 6-7 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 production facility is dedicated to Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

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.

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

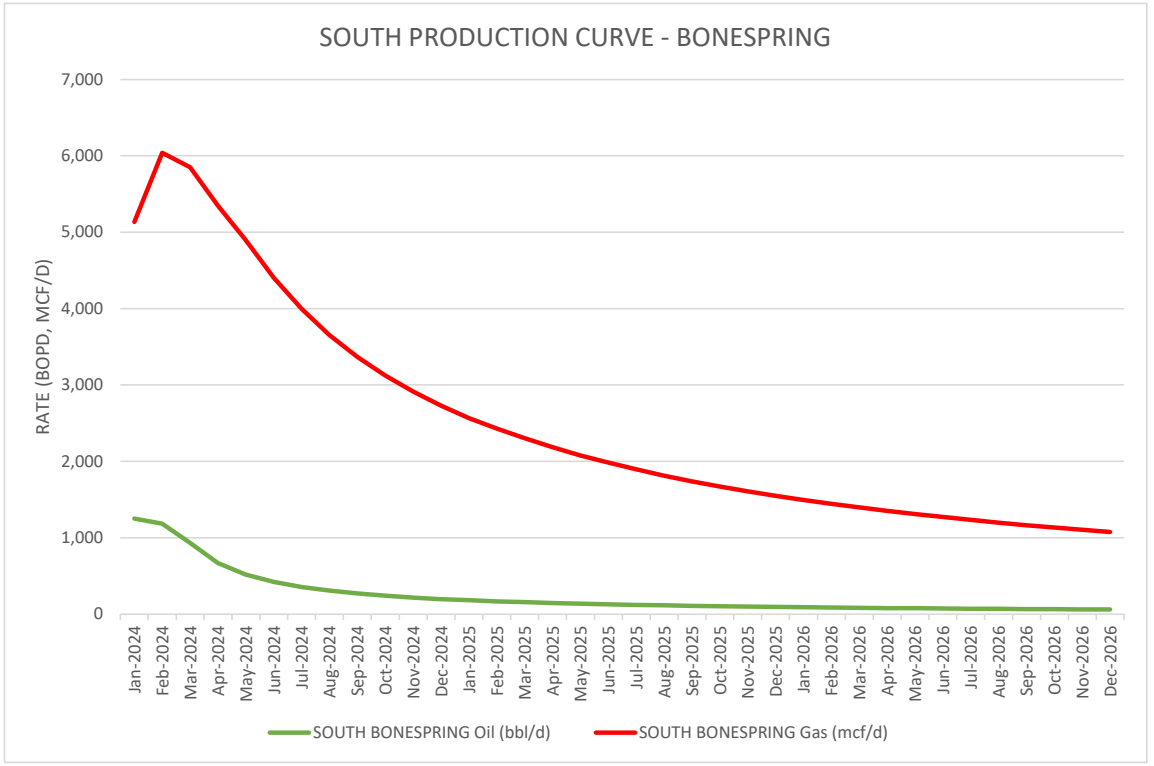
Compressed Natural Gas – On lease

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



Oxy USA Inc. - SAPPHIRE CC 22_34 FED COM 13H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	7959	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	24061	Deepest Expected Fresh Water (ft):	261

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	261	261	
Salado	651	651	Salt
Marker Bed 126			Salt
Castile	1461	1461	Salt
Delaware	3010	3010	Oil/Gas/Brine
Bell Canyon	3047	3047	Oil/Gas/Brine
Cherry Canyon	3896	3888	Oil/Gas/Brine
Brushy Canyon	5186	5122	Losses
Bone Spring	6861	6724	Oil/Gas
Bone Spring 1st	7947	7738	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

		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	331	0	331	13.375	54.5	J-55	BTC
Intermediate	12.25	0	7350	0	7188	9.625	40	L-80 HC	BTC
Production	8.75	0	7900	0	7624	7	32	P-110	DWC/C
Production	8.5	7900	24061	7624	7959	5.5	20	P-110	DWC/C-HT-IS

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 Collapse	**SF Burst**	**Body SF Tension**	**Joint SF Tension**
1.00	1.100	1.4	1.4

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.

	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? 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 the collapse pressure rating of the casing?	Y
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 3rd 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 2nd 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:	TOC	Placement	Description
Surface	1	Surface - Tail	346	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	375	1.68	13.2	5%	5,436	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1239	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	2873	1.84	13.3	25%	6,850	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

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	Type	✓	Tested to:	Deepest TVD Depth (ft) per Section:
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	7188
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			Other*			
8.75" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	7959
		5M	Blind Ram	✓	250 psi / 5000 psi	
			Pipe Ram			
			Double Ram	✓		
			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

	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.
	Y 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 (intermediate and production) requirements as per the agreement reached in the OXY/BLM meeting on April 4th, 2025. 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	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	331	0	331	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	331	7350	331	7188	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	7350	24061	7188	7959	Water-Based or Oil-Based Mud	8.0 - 9.6	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 loss or gain of fluid?	PVT/MD Totco/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).
	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

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

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3974 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	144°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

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.	
N	H2S is present
Y	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 2 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
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, 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.	Yes

Total Estimated Cuttings Volume:	1504 bbls

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 thl-ee 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 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

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.

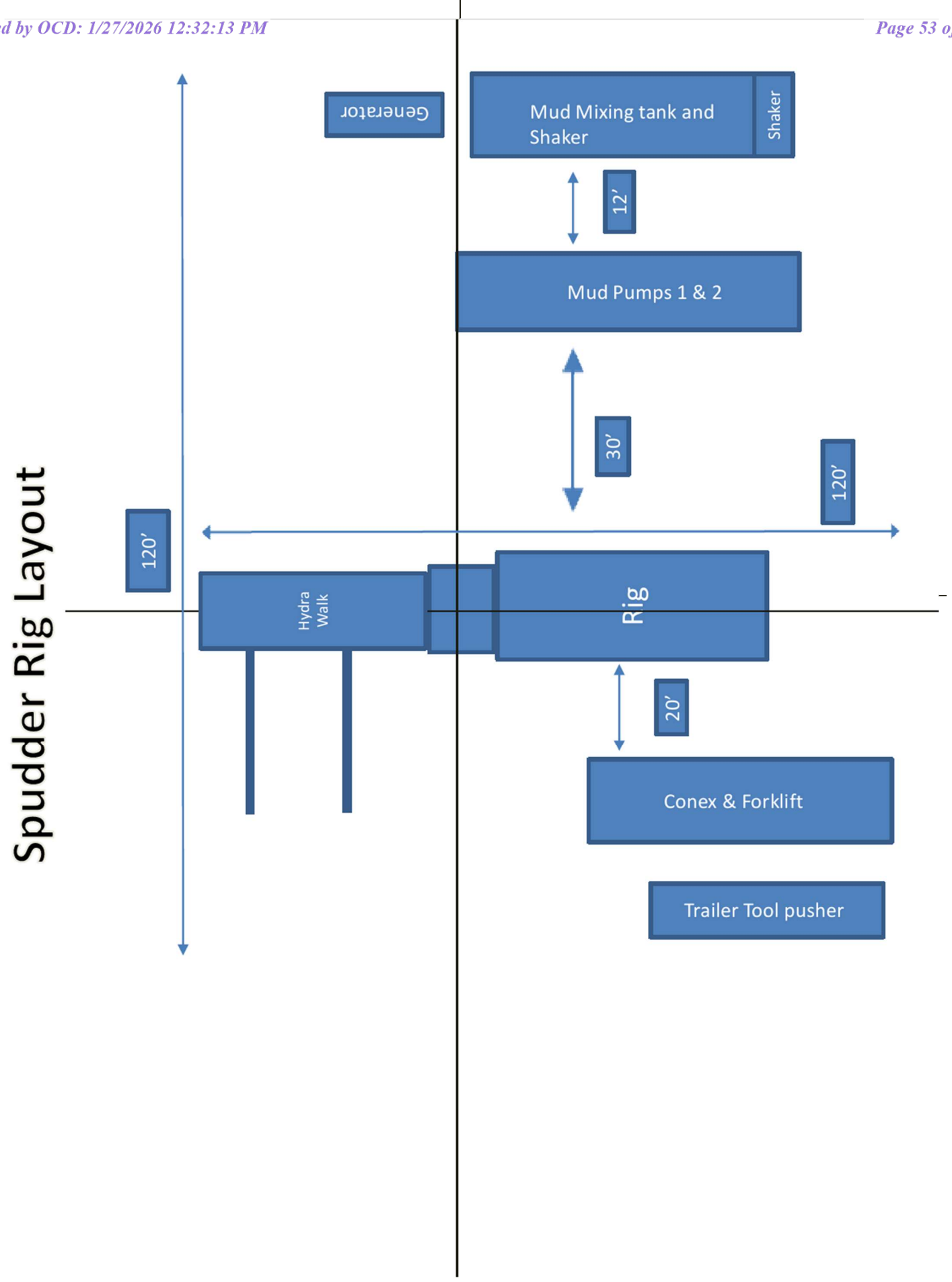
4. Spudder rig operations are expected to take 2-3 days per well on the pad.

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.

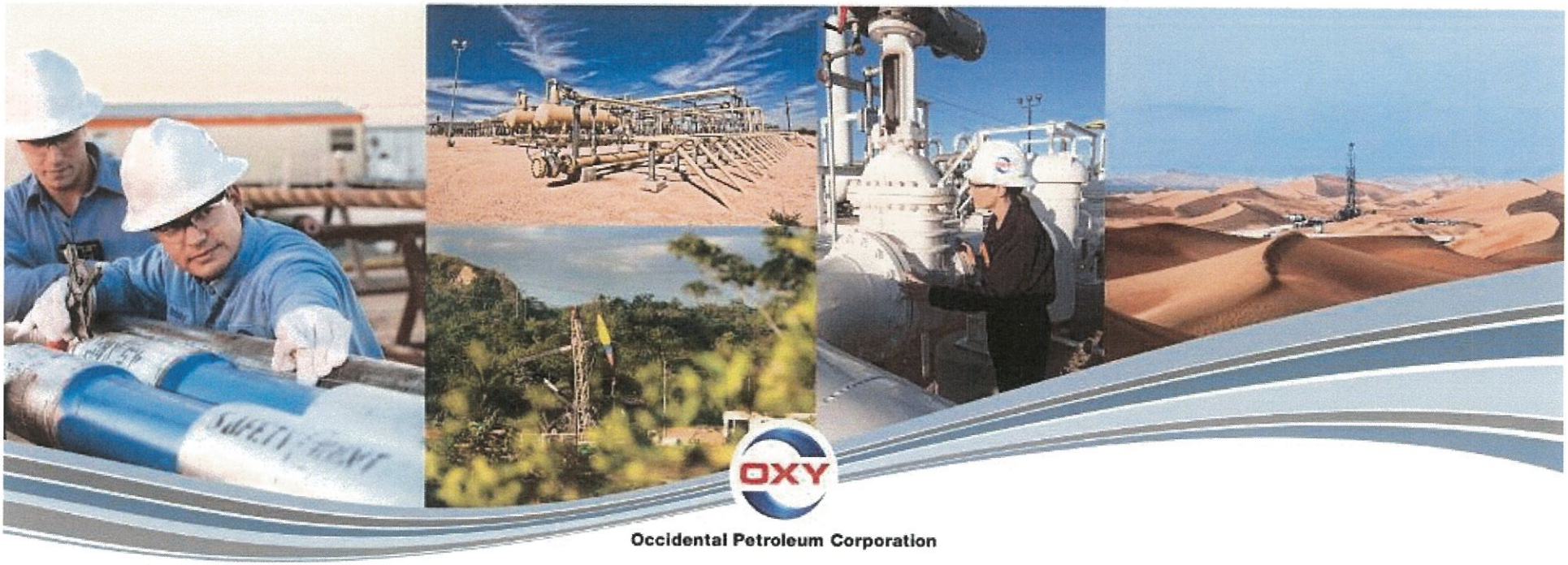
8. Once the rig is removed, Oxy will secure the wellhead area by placing a guard rail around the cellar area.


Spudder Rig Layout
Generator
Mud Mixing tank and Shaker
Shaker
12'
Mud Pumps 1 & 2
30'
120'
120'
Hydra Walk
Rig
20'
Conex & Forklift
Trailer Tool pusher

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REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Occidental Petroleum Corporation

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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*

Page 55 of 151

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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

- 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."

Page 56 of 151

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Rationale for Allowing BOP Break Testing

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

Page 57 of 151

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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 in 2015
- 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 No. 2

- 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
- Oxy's standard requires complete BOP tests more often than that of OOGO No. 2
- Oxy 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 OOGO No. 2

Page 58 of 151

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Break Testing Procedures

1) OXY to submit the break testing plan in the APD or Sundry Notice (SN) and receive approval prior to implementing

2) 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

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

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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

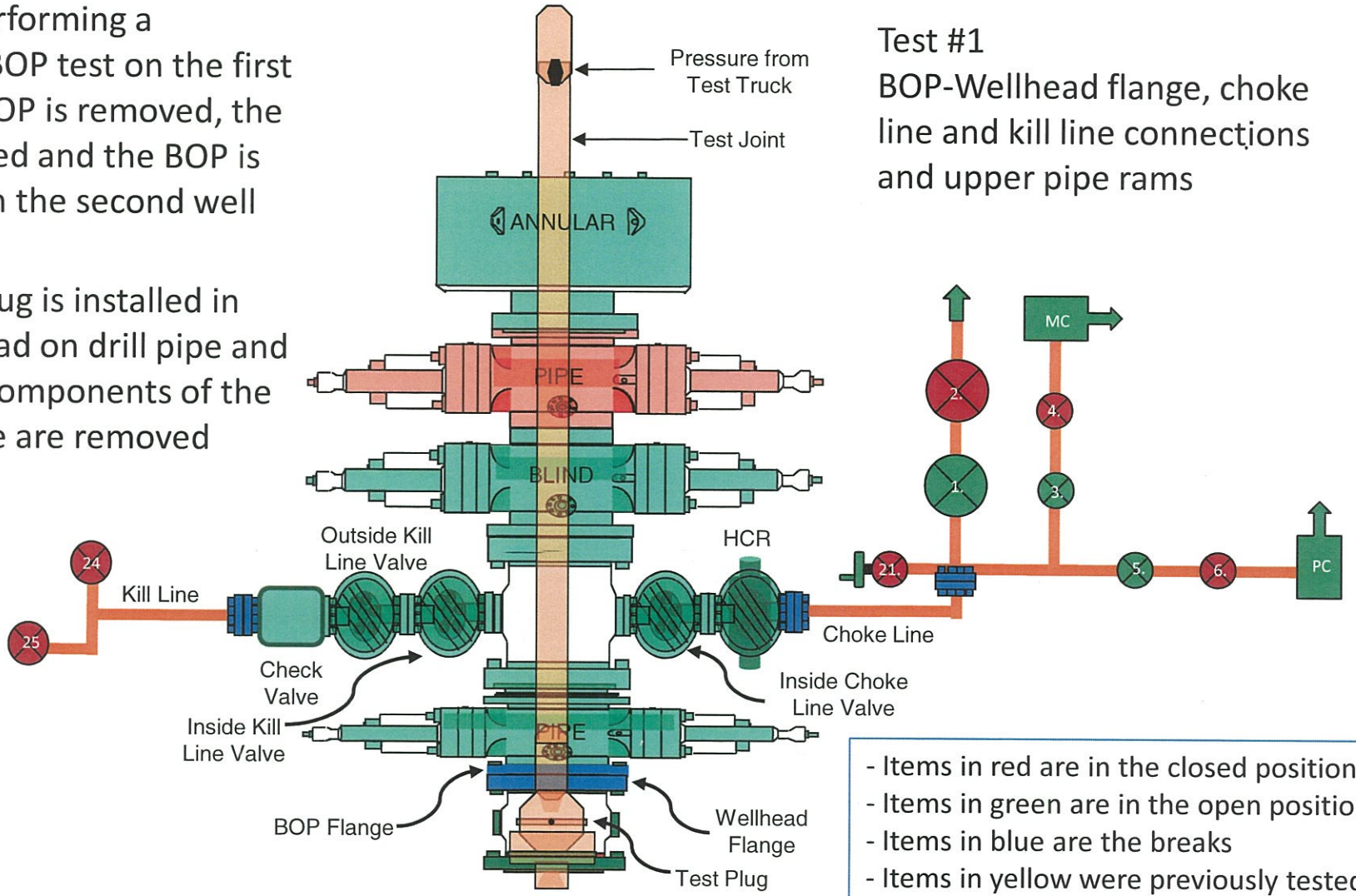
14) If a second break test is performed, additional components that were not tested on the first break test will be tested

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Break Testing Procedures and Tests

1. After performing a complete BOP test on the first well, the BOP is removed, the rig is skidded and the BOP is installed on the second well

2. A test plug is installed in the wellhead on drill pipe and the inner components of the check valve are removed



Test #1
BOP-Wellhead flange, choke line and kill line connections and upper pipe rams

- Items in red are in the closed position
- Items in green are in the open position
- Items in blue are the breaks
- Items in yellow were previously tested

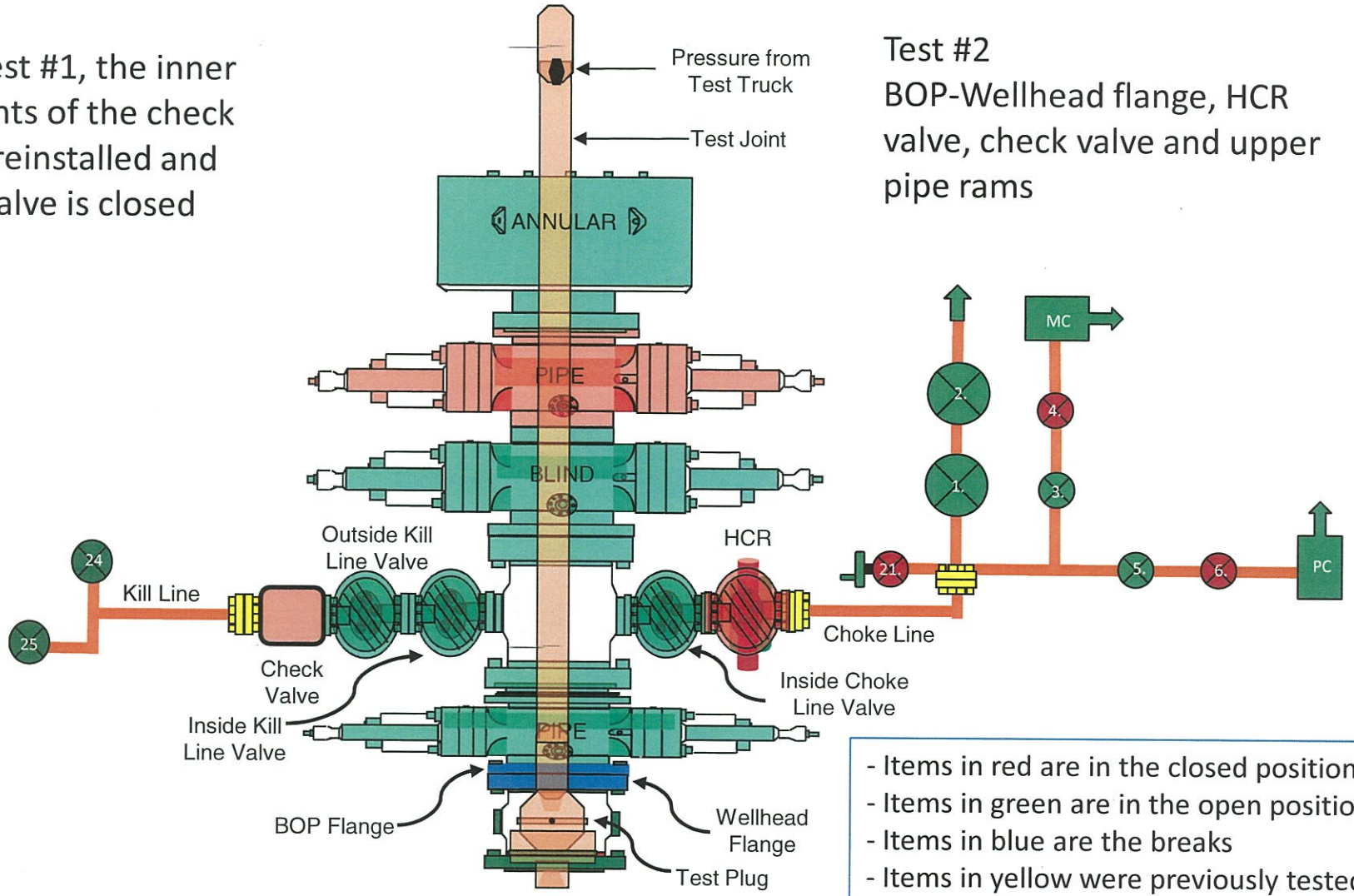
Page 61 of 151

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Break Testing Procedures and Tests

3. After Test #1, the inner components of the check valve are reinstalled and the HCR valve is closed

Test #2
BOP-Wellhead flange, HCR valve, check valve and upper pipe rams



- Items in red are in the closed position
- Items in green are in the open position
- Items in blue are the breaks
- Items in yellow were previously tested

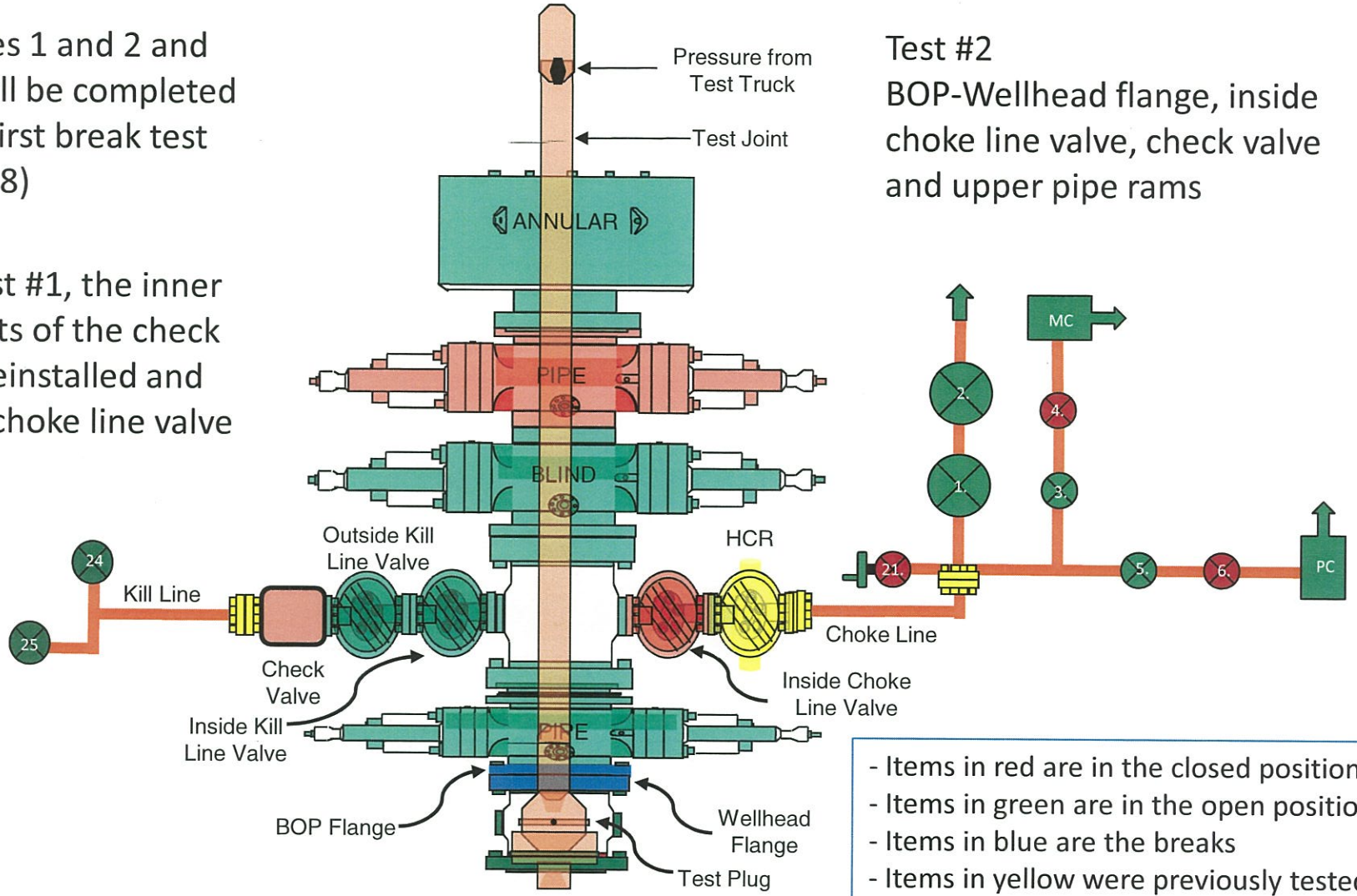
Page 62 of 151

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Second Break Testing Procedures and Tests

Procedures 1 and 2 and Test #1 will be completed as in the first break test (see slide 8)

3. After Test #1, the inner components of the check valve are reinstalled and the inside choke line valve is closed



Test #2
BOP-Wellhead flange, inside choke line valve, check valve and upper pipe rams

- Items in red are in the closed position
- Items in green are in the open position
- Items in blue are the breaks
- Items in yellow were previously tested

Page 63 of 151

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BOP Handling System

Hydraulic winch system which moves the BOP from its carrier to the wellhead



BOP standing in its carrier

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BOP Handling System

Hydraulic winch system moving the BOP over to the wellhead



Wellhead

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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
  - The Bureau of Safety and Environmental Enforcement has utilized API standards, specifications and best practices in the development of its offshore 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

Page 66 of 151

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

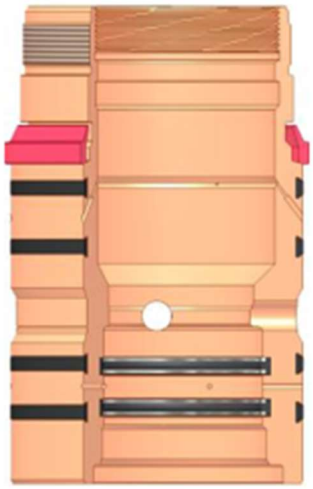
No changes to the cement program will take place for offline cementing.

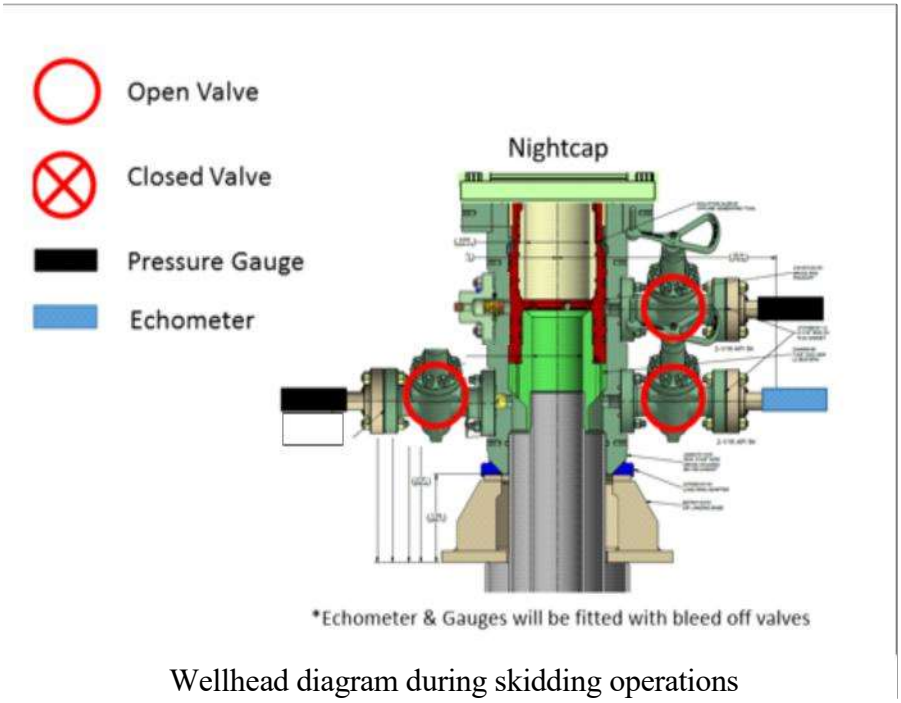
2. Offline Cementing Procedure

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

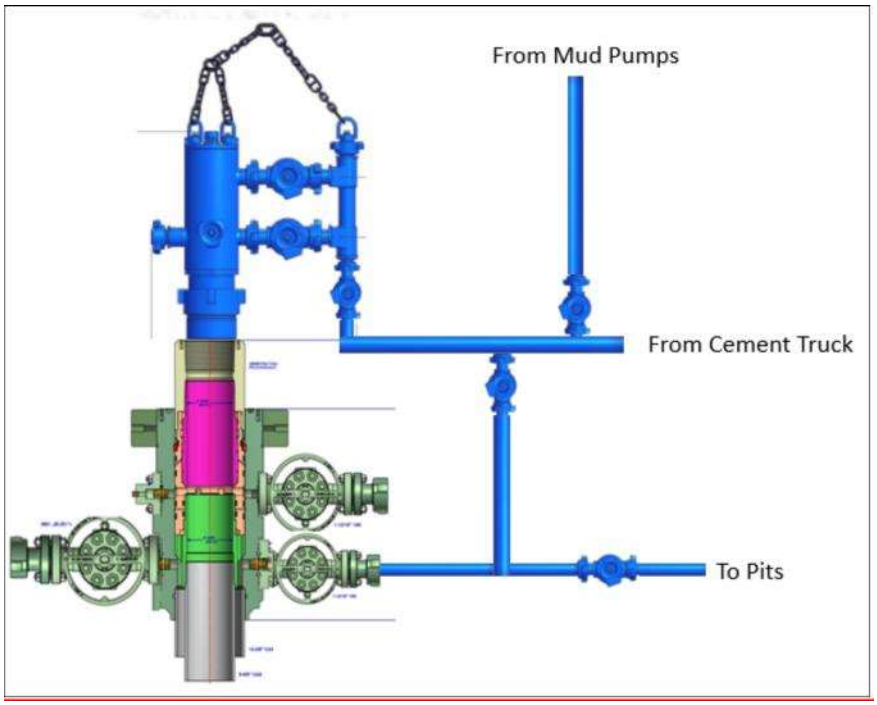
Annular packoff with both external and internal seals





Wellhead diagram during skidding operations

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 3rd 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.

Production Casing 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 from 43 CFR part 3170 Subpart 3172 under the following conditions:

1. Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casings.
2. Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)
Sapphire CC 22_34 Fed Com
Sapphire CC 22_34 Fed Com 13H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

13 June, 2024

OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		Using geodetic scale factor

Site Sapphire CC 22_34 Fed Com

Site Position:		**Northing:**	440,017.24 usft	**Latitude:**	32.209174
From:	Map	**Easting:**	652,497.41 usft	**Longitude:**	-103.973922
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in		

Well Sapphire CC 22_34 Fed Com 13H

Well Position	**+N/-S**	0.00 ft	**Northing:**	440,060.99 usf	**Latitude:**	32.209273
	+E/-W	0.00 ft	**Easting:**	654,771.02 usf	**Longitude:**	-103.966571
Position Uncertainty		2.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	2,938.00 ft
Grid Convergence:		0.20 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	6/13/2024	6.47	59.77	47,356.70000000

Design Permitting Plan

Audit Notes:

Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	183.74

Plan Survey Tool Program **Date** 6/13/2024

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	24,060.92	Permitting Plan (Wellbore #1)	B005Mc_MWD+HRGM+SA	
				MWD+HRGM+Sag+MSA	

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
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4,009.88	17.00	304.85	3,997.47	71.50	-102.70	2.00	2.00	0.00	304.85	
7,450.33	17.00	304.85	7,287.62	646.17	-928.11	0.00	0.00	0.00	0.00	
8,446.35	89.92	179.73	7,936.99	81.40	-1,087.63	10.00	7.32	-12.56	-123.94	
24,061.35	89.92	179.73	7,958.74	-15,533.41	-1,015.10	0.00	0.00	0.00	0.00	PBHL (Sapphire CC

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OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
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3,500.00	6.80	304.85	3,499.20	11.51	-16.54	-10.41	2.00	2.00	0.00
3,600.00	8.80	304.85	3,598.27	19.27	-27.68	-17.42	2.00	2.00	0.00
3,700.00	10.80	304.85	3,696.81	28.99	-41.64	-26.22	2.00	2.00	0.00
3,800.00	12.80	304.85	3,794.69	40.68	-58.43	-36.78	2.00	2.00	0.00
3,900.00	14.80	304.85	3,891.80	54.31	-78.00	-49.10	2.00	2.00	0.00
4,000.00	16.80	304.85	3,988.02	69.86	-100.35	-63.17	2.00	2.00	0.00
4,009.88	17.00	304.85	3,997.47	71.50	-102.70	-64.66	2.00	2.00	0.00
4,100.00	17.00	304.85	4,083.65	86.56	-124.32	-78.27	0.00	0.00	0.00
4,200.00	17.00	304.85	4,179.28	103.26	-148.31	-93.37	0.00	0.00	0.00
4,300.00	17.00	304.85	4,274.92	119.96	-172.31	-108.47	0.00	0.00	0.00
4,400.00	17.00	304.85	4,370.55	136.67	-196.30	-123.58	0.00	0.00	0.00
4,500.00	17.00	304.85	4,466.18	153.37	-220.29	-138.68	0.00	0.00	0.00
4,600.00	17.00	304.85	4,561.81	170.07	-244.28	-153.78	0.00	0.00	0.00
4,700.00	17.00	304.85	4,657.44	186.78	-268.27	-168.89	0.00	0.00	0.00
4,800.00	17.00	304.85	4,753.07	203.48	-292.26	-183.99	0.00	0.00	0.00
4,900.00	17.00	304.85	4,848.71	220.18	-316.25	-199.09	0.00	0.00	0.00
5,000.00	17.00	304.85	4,944.34	236.89	-340.24	-214.20	0.00	0.00	0.00
5,100.00	17.00	304.85	5,039.97	253.59	-364.24	-229.30	0.00	0.00	0.00
5,200.00	17.00	304.85	5,135.60	270.29	-388.23	-244.40	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	17.00	304.85	5,231.23	287.00	-412.22	-259.51	0.00	0.00	0.00
5,400.00	17.00	304.85	5,326.86	303.70	-436.21	-274.61	0.00	0.00	0.00
5,500.00	17.00	304.85	5,422.50	320.40	-460.20	-289.71	0.00	0.00	0.00
5,600.00	17.00	304.85	5,518.13	337.11	-484.19	-304.82	0.00	0.00	0.00
5,700.00	17.00	304.85	5,613.76	353.81	-508.18	-319.92	0.00	0.00	0.00
5,800.00	17.00	304.85	5,709.39	370.51	-532.18	-335.02	0.00	0.00	0.00
5,900.00	17.00	304.85	5,805.02	387.22	-556.17	-350.13	0.00	0.00	0.00
6,000.00	17.00	304.85	5,900.65	403.92	-580.16	-365.23	0.00	0.00	0.00
6,100.00	17.00	304.85	5,996.29	420.62	-604.15	-380.33	0.00	0.00	0.00
6,200.00	17.00	304.85	6,091.92	437.33	-628.14	-395.44	0.00	0.00	0.00
6,300.00	17.00	304.85	6,187.55	454.03	-652.13	-410.54	0.00	0.00	0.00
6,400.00	17.00	304.85	6,283.18	470.74	-676.12	-425.64	0.00	0.00	0.00
6,500.00	17.00	304.85	6,378.81	487.44	-700.11	-440.75	0.00	0.00	0.00
6,600.00	17.00	304.85	6,474.44	504.14	-724.11	-455.85	0.00	0.00	0.00
6,700.00	17.00	304.85	6,570.08	520.85	-748.10	-470.95	0.00	0.00	0.00
6,800.00	17.00	304.85	6,665.71	537.55	-772.09	-486.06	0.00	0.00	0.00
6,900.00	17.00	304.85	6,761.34	554.25	-796.08	-501.16	0.00	0.00	0.00
7,000.00	17.00	304.85	6,856.97	570.96	-820.07	-516.26	0.00	0.00	0.00
7,100.00	17.00	304.85	6,952.60	587.66	-844.06	-531.37	0.00	0.00	0.00
7,200.00	17.00	304.85	7,048.23	604.36	-868.05	-546.47	0.00	0.00	0.00
7,300.00	17.00	304.85	7,143.87	621.07	-892.04	-561.57	0.00	0.00	0.00
7,400.00	17.00	304.85	7,239.50	637.77	-916.04	-576.68	0.00	0.00	0.00
7,450.33	17.00	304.85	7,287.62	646.17	-928.11	-584.28	0.00	0.00	0.00
7,500.00	14.79	288.50	7,335.42	652.34	-940.09	-589.65	10.00	-4.44	-32.90
7,600.00	14.98	248.85	7,432.31	651.73	-964.31	-587.46	10.00	0.19	-39.66
7,700.00	20.64	221.31	7,527.65	633.78	-988.05	-568.00	10.00	5.66	-27.54
7,800.00	28.69	206.89	7,618.53	599.05	-1,010.60	-531.87	10.00	8.06	-14.41
7,900.00	37.63	198.63	7,702.20	548.58	-1,031.27	-480.16	10.00	8.94	-8.26
8,000.00	46.95	193.22	7,776.11	483.92	-1,049.42	-414.45	10.00	9.32	-5.42
8,100.00	56.46	189.25	7,838.03	407.02	-1,064.52	-336.73	10.00	9.51	-3.96
8,200.00	66.07	186.08	7,886.06	320.22	-1,076.09	-249.37	10.00	9.61	-3.17
8,300.00	75.73	183.36	7,918.75	226.16	-1,083.79	-155.01	10.00	9.66	-2.73
8,400.00	85.42	180.86	7,935.10	127.70	-1,087.39	-56.52	10.00	9.69	-2.50
8,446.35	89.92	179.73	7,936.99	81.40	-1,087.63	-10.30	10.00	9.70	-2.43
8,500.00	89.92	179.73	7,937.06	27.76	-1,087.38	43.21	0.00	0.00	0.00
8,600.00	89.92	179.73	7,937.20	-72.24	-1,086.92	142.97	0.00	0.00	0.00
8,700.00	89.92	179.73	7,937.34	-172.24	-1,086.45	242.72	0.00	0.00	0.00
8,800.00	89.92	179.73	7,937.48	-272.24	-1,085.99	342.48	0.00	0.00	0.00
8,900.00	89.92	179.73	7,937.62	-372.24	-1,085.52	442.24	0.00	0.00	0.00
9,000.00	89.92	179.73	7,937.76	-472.24	-1,085.06	541.99	0.00	0.00	0.00
9,100.00	89.92	179.73	7,937.90	-572.24	-1,084.59	641.75	0.00	0.00	0.00
9,200.00	89.92	179.73	7,938.04	-672.24	-1,084.13	741.50	0.00	0.00	0.00
9,300.00	89.92	179.73	7,938.17	-772.24	-1,083.66	841.26	0.00	0.00	0.00
9,400.00	89.92	179.73	7,938.31	-872.23	-1,083.20	941.01	0.00	0.00	0.00
9,500.00	89.92	179.73	7,938.45	-972.23	-1,082.74	1,040.77	0.00	0.00	0.00
9,600.00	89.92	179.73	7,938.59	-1,072.23	-1,082.27	1,140.52	0.00	0.00	0.00
9,700.00	89.92	179.73	7,938.73	-1,172.23	-1,081.81	1,240.28	0.00	0.00	0.00
9,800.00	89.92	179.73	7,938.87	-1,272.23	-1,081.34	1,340.04	0.00	0.00	0.00
9,900.00	89.92	179.73	7,939.01	-1,372.23	-1,080.88	1,439.79	0.00	0.00	0.00
10,000.00	89.92	179.73	7,939.15	-1,472.23	-1,080.41	1,539.55	0.00	0.00	0.00
10,100.00	89.92	179.73	7,939.29	-1,572.23	-1,079.95	1,639.30	0.00	0.00	0.00
10,200.00	89.92	179.73	7,939.43	-1,672.22	-1,079.48	1,739.06	0.00	0.00	0.00
10,300.00	89.92	179.73	7,939.57	-1,772.22	-1,079.02	1,838.81	0.00	0.00	0.00
10,400.00	89.92	179.73	7,939.71	-1,872.22	-1,078.55	1,938.57	0.00	0.00	0.00
10,500.00	89.92	179.73	7,939.85	-1,972.22	-1,078.09	2,038.33	0.00	0.00	0.00

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Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
10,600.00	89.92	179.73	7,939.99	-2,072.22	-1,077.63	2,138.08	0.00	0.00	0.00
10,700.00	89.92	179.73	7,940.12	-2,172.22	-1,077.16	2,237.84	0.00	0.00	0.00
10,800.00	89.92	179.73	7,940.26	-2,272.22	-1,076.70	2,337.59	0.00	0.00	0.00
10,900.00	89.92	179.73	7,940.40	-2,372.22	-1,076.23	2,437.35	0.00	0.00	0.00
11,000.00	89.92	179.73	7,940.54	-2,472.22	-1,075.77	2,537.10	0.00	0.00	0.00
11,100.00	89.92	179.73	7,940.68	-2,572.21	-1,075.30	2,636.86	0.00	0.00	0.00
11,200.00	89.92	179.73	7,940.82	-2,672.21	-1,074.84	2,736.62	0.00	0.00	0.00
11,300.00	89.92	179.73	7,940.96	-2,772.21	-1,074.37	2,836.37	0.00	0.00	0.00
11,400.00	89.92	179.73	7,941.10	-2,872.21	-1,073.91	2,936.13	0.00	0.00	0.00
11,500.00	89.92	179.73	7,941.24	-2,972.21	-1,073.45	3,035.88	0.00	0.00	0.00
11,600.00	89.92	179.73	7,941.38	-3,072.21	-1,072.98	3,135.64	0.00	0.00	0.00
11,700.00	89.92	179.73	7,941.52	-3,172.21	-1,072.52	3,235.39	0.00	0.00	0.00
11,800.00	89.92	179.73	7,941.66	-3,272.21	-1,072.05	3,335.15	0.00	0.00	0.00
11,900.00	89.92	179.73	7,941.80	-3,372.20	-1,071.59	3,434.91	0.00	0.00	0.00
12,000.00	89.92	179.73	7,941.94	-3,472.20	-1,071.12	3,534.66	0.00	0.00	0.00
12,100.00	89.92	179.73	7,942.07	-3,572.20	-1,070.66	3,634.42	0.00	0.00	0.00
12,200.00	89.92	179.73	7,942.21	-3,672.20	-1,070.19	3,734.17	0.00	0.00	0.00
12,300.00	89.92	179.73	7,942.35	-3,772.20	-1,069.73	3,833.93	0.00	0.00	0.00
12,400.00	89.92	179.73	7,942.49	-3,872.20	-1,069.27	3,933.68	0.00	0.00	0.00
12,500.00	89.92	179.73	7,942.63	-3,972.20	-1,068.80	4,033.44	0.00	0.00	0.00
12,600.00	89.92	179.73	7,942.77	-4,072.20	-1,068.34	4,133.20	0.00	0.00	0.00
12,700.00	89.92	179.73	7,942.91	-4,172.20	-1,067.87	4,232.95	0.00	0.00	0.00
12,800.00	89.92	179.73	7,943.05	-4,272.19	-1,067.41	4,332.71	0.00	0.00	0.00
12,900.00	89.92	179.73	7,943.19	-4,372.19	-1,066.94	4,432.46	0.00	0.00	0.00
13,000.00	89.92	179.73	7,943.33	-4,472.19	-1,066.48	4,532.22	0.00	0.00	0.00
13,100.00	89.92	179.73	7,943.47	-4,572.19	-1,066.01	4,631.97	0.00	0.00	0.00
13,200.00	89.92	179.73	7,943.61	-4,672.19	-1,065.55	4,731.73	0.00	0.00	0.00
13,300.00	89.92	179.73	7,943.75	-4,772.19	-1,065.08	4,831.49	0.00	0.00	0.00
13,400.00	89.92	179.73	7,943.89	-4,872.19	-1,064.62	4,931.24	0.00	0.00	0.00
13,500.00	89.92	179.73	7,944.02	-4,972.19	-1,064.16	5,031.00	0.00	0.00	0.00
13,600.00	89.92	179.73	7,944.16	-5,072.18	-1,063.69	5,130.75	0.00	0.00	0.00
13,700.00	89.92	179.73	7,944.30	-5,172.18	-1,063.23	5,230.51	0.00	0.00	0.00
13,800.00	89.92	179.73	7,944.44	-5,272.18	-1,062.76	5,330.26	0.00	0.00	0.00
13,900.00	89.92	179.73	7,944.58	-5,372.18	-1,062.30	5,430.02	0.00	0.00	0.00
14,000.00	89.92	179.73	7,944.72	-5,472.18	-1,061.83	5,529.78	0.00	0.00	0.00
14,100.00	89.92	179.73	7,944.86	-5,572.18	-1,061.37	5,629.53	0.00	0.00	0.00
14,200.00	89.92	179.73	7,945.00	-5,672.18	-1,060.90	5,729.29	0.00	0.00	0.00
14,300.00	89.92	179.73	7,945.14	-5,772.18	-1,060.44	5,829.04	0.00	0.00	0.00
14,400.00	89.92	179.73	7,945.28	-5,872.18	-1,059.98	5,928.80	0.00	0.00	0.00
14,500.00	89.92	179.73	7,945.42	-5,972.17	-1,059.51	6,028.55	0.00	0.00	0.00
14,600.00	89.92	179.73	7,945.56	-6,072.17	-1,059.05	6,128.31	0.00	0.00	0.00
14,700.00	89.92	179.73	7,945.70	-6,172.17	-1,058.58	6,228.07	0.00	0.00	0.00
14,800.00	89.92	179.73	7,945.84	-6,272.17	-1,058.12	6,327.82	0.00	0.00	0.00
14,900.00	89.92	179.73	7,945.97	-6,372.17	-1,057.65	6,427.58	0.00	0.00	0.00
15,000.00	89.92	179.73	7,946.11	-6,472.17	-1,057.19	6,527.33	0.00	0.00	0.00
15,100.00	89.92	179.73	7,946.25	-6,572.17	-1,056.72	6,627.09	0.00	0.00	0.00
15,200.00	89.92	179.73	7,946.39	-6,672.17	-1,056.26	6,726.84	0.00	0.00	0.00
15,300.00	89.92	179.73	7,946.53	-6,772.17	-1,055.79	6,826.60	0.00	0.00	0.00
15,400.00	89.92	179.73	7,946.67	-6,872.16	-1,055.33	6,926.36	0.00	0.00	0.00
15,500.00	89.92	179.73	7,946.81	-6,972.16	-1,054.87	7,026.11	0.00	0.00	0.00
15,600.00	89.92	179.73	7,946.95	-7,072.16	-1,054.40	7,125.87	0.00	0.00	0.00
15,700.00	89.92	179.73	7,947.09	-7,172.16	-1,053.94	7,225.62	0.00	0.00	0.00
15,800.00	89.92	179.73	7,947.23	-7,272.16	-1,053.47	7,325.38	0.00	0.00	0.00
15,900.00	89.92	179.73	7,947.37	-7,372.16	-1,053.01	7,425.13	0.00	0.00	0.00
16,000.00	89.92	179.73	7,947.51	-7,472.16	-1,052.54	7,524.89	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	89.92	179.73	7,947.65	-7,572.16	-1,052.08	7,624.65	0.00	0.00	0.00
16,200.00	89.92	179.73	7,947.79	-7,672.15	-1,051.61	7,724.40	0.00	0.00	0.00
16,300.00	89.92	179.73	7,947.92	-7,772.15	-1,051.15	7,824.16	0.00	0.00	0.00
16,400.00	89.92	179.73	7,948.06	-7,872.15	-1,050.69	7,923.91	0.00	0.00	0.00
16,500.00	89.92	179.73	7,948.20	-7,972.15	-1,050.22	8,023.67	0.00	0.00	0.00
16,600.00	89.92	179.73	7,948.34	-8,072.15	-1,049.76	8,123.42	0.00	0.00	0.00
16,700.00	89.92	179.73	7,948.48	-8,172.15	-1,049.29	8,223.18	0.00	0.00	0.00
16,800.00	89.92	179.73	7,948.62	-8,272.15	-1,048.83	8,322.93	0.00	0.00	0.00
16,900.00	89.92	179.73	7,948.76	-8,372.15	-1,048.36	8,422.69	0.00	0.00	0.00
17,000.00	89.92	179.73	7,948.90	-8,472.15	-1,047.90	8,522.45	0.00	0.00	0.00
17,100.00	89.92	179.73	7,949.04	-8,572.14	-1,047.43	8,622.20	0.00	0.00	0.00
17,200.00	89.92	179.73	7,949.18	-8,672.14	-1,046.97	8,721.96	0.00	0.00	0.00
17,300.00	89.92	179.73	7,949.32	-8,772.14	-1,046.51	8,821.71	0.00	0.00	0.00
17,400.00	89.92	179.73	7,949.46	-8,872.14	-1,046.04	8,921.47	0.00	0.00	0.00
17,500.00	89.92	179.73	7,949.60	-8,972.14	-1,045.58	9,021.22	0.00	0.00	0.00
17,600.00	89.92	179.73	7,949.74	-9,072.14	-1,045.11	9,120.98	0.00	0.00	0.00
17,700.00	89.92	179.73	7,949.87	-9,172.14	-1,044.65	9,220.74	0.00	0.00	0.00
17,800.00	89.92	179.73	7,950.01	-9,272.14	-1,044.18	9,320.49	0.00	0.00	0.00
17,900.00	89.92	179.73	7,950.15	-9,372.13	-1,043.72	9,420.25	0.00	0.00	0.00
18,000.00	89.92	179.73	7,950.29	-9,472.13	-1,043.25	9,520.00	0.00	0.00	0.00
18,100.00	89.92	179.73	7,950.43	-9,572.13	-1,042.79	9,619.76	0.00	0.00	0.00
18,200.00	89.92	179.73	7,950.57	-9,672.13	-1,042.32	9,719.51	0.00	0.00	0.00
18,300.00	89.92	179.73	7,950.71	-9,772.13	-1,041.86	9,819.27	0.00	0.00	0.00
18,400.00	89.92	179.73	7,950.85	-9,872.13	-1,041.40	9,919.03	0.00	0.00	0.00
18,500.00	89.92	179.73	7,950.99	-9,972.13	-1,040.93	10,018.78	0.00	0.00	0.00
18,600.00	89.92	179.73	7,951.13	-10,072.13	-1,040.47	10,118.54	0.00	0.00	0.00
18,700.00	89.92	179.73	7,951.27	-10,172.13	-1,040.00	10,218.29	0.00	0.00	0.00
18,800.00	89.92	179.73	7,951.41	-10,272.12	-1,039.54	10,318.05	0.00	0.00	0.00
18,900.00	89.92	179.73	7,951.55	-10,372.12	-1,039.07	10,417.80	0.00	0.00	0.00
19,000.00	89.92	179.73	7,951.69	-10,472.12	-1,038.61	10,517.56	0.00	0.00	0.00
19,100.00	89.92	179.73	7,951.82	-10,572.12	-1,038.14	10,617.32	0.00	0.00	0.00
19,200.00	89.92	179.73	7,951.96	-10,672.12	-1,037.68	10,717.07	0.00	0.00	0.00
19,300.00	89.92	179.73	7,952.10	-10,772.12	-1,037.22	10,816.83	0.00	0.00	0.00
19,400.00	89.92	179.73	7,952.24	-10,872.12	-1,036.75	10,916.58	0.00	0.00	0.00
19,500.00	89.92	179.73	7,952.38	-10,972.12	-1,036.29	11,016.34	0.00	0.00	0.00
19,600.00	89.92	179.73	7,952.52	-11,072.11	-1,035.82	11,116.09	0.00	0.00	0.00
19,700.00	89.92	179.73	7,952.66	-11,172.11	-1,035.36	11,215.85	0.00	0.00	0.00
19,800.00	89.92	179.73	7,952.80	-11,272.11	-1,034.89	11,315.61	0.00	0.00	0.00
19,900.00	89.92	179.73	7,952.94	-11,372.11	-1,034.43	11,415.36	0.00	0.00	0.00
20,000.00	89.92	179.73	7,953.08	-11,472.11	-1,033.96	11,515.12	0.00	0.00	0.00
20,100.00	89.92	179.73	7,953.22	-11,572.11	-1,033.50	11,614.87	0.00	0.00	0.00
20,200.00	89.92	179.73	7,953.36	-11,672.11	-1,033.03	11,714.63	0.00	0.00	0.00
20,300.00	89.92	179.73	7,953.50	-11,772.11	-1,032.57	11,814.38	0.00	0.00	0.00
20,400.00	89.92	179.73	7,953.64	-11,872.11	-1,032.11	11,914.14	0.00	0.00	0.00
20,500.00	89.92	179.73	7,953.77	-11,972.10	-1,031.64	12,013.90	0.00	0.00	0.00
20,600.00	89.92	179.73	7,953.91	-12,072.10	-1,031.18	12,113.65	0.00	0.00	0.00
20,700.00	89.92	179.73	7,954.05	-12,172.10	-1,030.71	12,213.41	0.00	0.00	0.00
20,800.00	89.92	179.73	7,954.19	-12,272.10	-1,030.25	12,313.16	0.00	0.00	0.00
20,900.00	89.92	179.73	7,954.33	-12,372.10	-1,029.78	12,412.92	0.00	0.00	0.00
21,000.00	89.92	179.73	7,954.47	-12,472.10	-1,029.32	12,512.67	0.00	0.00	0.00
21,100.00	89.92	179.73	7,954.61	-12,572.10	-1,028.85	12,612.43	0.00	0.00	0.00
21,200.00	89.92	179.73	7,954.75	-12,672.10	-1,028.39	12,712.19	0.00	0.00	0.00
21,300.00	89.92	179.73	7,954.89	-12,772.09	-1,027.93	12,811.94	0.00	0.00	0.00
21,400.00	89.92	179.73	7,955.03	-12,872.09	-1,027.46	12,911.70	0.00	0.00	0.00
21,500.00	89.92	179.73	7,955.17	-12,972.09	-1,027.00	13,011.45	0.00	0.00	0.00

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OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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	89.92	179.73	7,955.31	-13,072.09	-1,026.53	13,111.21	0.00	0.00	0.00
21,700.00	89.92	179.73	7,955.45	-13,172.09	-1,026.07	13,210.96	0.00	0.00	0.00
21,800.00	89.92	179.73	7,955.59	-13,272.09	-1,025.60	13,310.72	0.00	0.00	0.00
21,900.00	89.92	179.73	7,955.72	-13,372.09	-1,025.14	13,410.48	0.00	0.00	0.00
22,000.00	89.92	179.73	7,955.86	-13,472.09	-1,024.67	13,510.23	0.00	0.00	0.00
22,100.00	89.92	179.73	7,956.00	-13,572.09	-1,024.21	13,609.99	0.00	0.00	0.00
22,200.00	89.92	179.73	7,956.14	-13,672.08	-1,023.75	13,709.74	0.00	0.00	0.00
22,300.00	89.92	179.73	7,956.28	-13,772.08	-1,023.28	13,809.50	0.00	0.00	0.00
22,400.00	89.92	179.73	7,956.42	-13,872.08	-1,022.82	13,909.25	0.00	0.00	0.00
22,500.00	89.92	179.73	7,956.56	-13,972.08	-1,022.35	14,009.01	0.00	0.00	0.00
22,600.00	89.92	179.73	7,956.70	-14,072.08	-1,021.89	14,108.77	0.00	0.00	0.00
22,700.00	89.92	179.73	7,956.84	-14,172.08	-1,021.42	14,208.52	0.00	0.00	0.00
22,800.00	89.92	179.73	7,956.98	-14,272.08	-1,020.96	14,308.28	0.00	0.00	0.00
22,900.00	89.92	179.73	7,957.12	-14,372.08	-1,020.49	14,408.03	0.00	0.00	0.00
23,000.00	89.92	179.73	7,957.26	-14,472.07	-1,020.03	14,507.79	0.00	0.00	0.00
23,100.00	89.92	179.73	7,957.40	-14,572.07	-1,019.56	14,607.54	0.00	0.00	0.00
23,200.00	89.92	179.73	7,957.54	-14,672.07	-1,019.10	14,707.30	0.00	0.00	0.00
23,300.00	89.92	179.73	7,957.67	-14,772.07	-1,018.64	14,807.05	0.00	0.00	0.00
23,400.00	89.92	179.73	7,957.81	-14,872.07	-1,018.17	14,906.81	0.00	0.00	0.00
23,500.00	89.92	179.73	7,957.95	-14,972.07	-1,017.71	15,006.57	0.00	0.00	0.00
23,600.00	89.92	179.73	7,958.09	-15,072.07	-1,017.24	15,106.32	0.00	0.00	0.00
23,700.00	89.92	179.73	7,958.23	-15,172.07	-1,016.78	15,206.08	0.00	0.00	0.00
23,800.00	89.92	179.73	7,958.37	-15,272.07	-1,016.31	15,305.83	0.00	0.00	0.00
23,900.00	89.92	179.73	7,958.51	-15,372.06	-1,015.85	15,405.59	0.00	0.00	0.00
24,000.00	89.92	179.73	7,958.65	-15,472.06	-1,015.38	15,505.34	0.00	0.00	0.00
24,061.35	89.92	179.73	7,958.74	-15,533.41	-1,015.10	15,566.55	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 (Sapphire CC	0.00	0.00	0.00	652.76	-1,089.86	440,713.70	653,681.25	32.211077	-103.970087
- plan misses target center by 1270.39ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
FTP (Sapphire CC	0.00	0.00	7,936.75	252.73	-1,088.43	440,313.70	653,682.68	32.209977	-103.970087
- plan misses target center by 25.10ft at 8281.20ft MD (7913.83 TVD, 244.27 N, -1082.65 E)									
- Point									
PBHL (Sapphire CC	0.00	0.00	7,958.74	-15,533.41	-1,015.10	424,528.79	653,756.00	32.166586	-103.970022
- plan hits target center									
- Point									

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OXY
Planning Report

Database:	HOPSPP	**Local Co-ordinate Reference:**	Well Sapphire CC 22_34 Fed Com 13H
Company:	ENGINEERING DESIGNS	**TVD Reference:**	RKB=25' @ 2963.00ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	**MD Reference:**	RKB=25' @ 2963.00ft
Site:	Sapphire CC 22_34 Fed Com	**North Reference:**	Grid
Well:	Sapphire CC 22_34 Fed Com 13H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
261.00	261.00	RUSTLER			
651.00	651.00	SALADO			
1,461.00	1,461.00	CASTILE			
3,010.00	3,010.00	DELAWARE			
3,047.00	3,047.00	BELL CANYON			
3,896.07	3,888.00	CHERRY CANYON			
5,185.78	5,122.00	BRUSHY CANYON			
6,860.96	6,724.00	BONE SPRING			
7,946.60	7,738.00	BONE SPRING 1ST			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
3,160.00	3,160.00	0.00	0.00	Build 2°/100'
4,009.88	3,997.47	71.50	-102.70	Hold 17° Tangent
7,450.33	7,287.62	646.17	-928.11	KOP, Build & Turn 10°/100'
8,446.35	7,936.99	81.40	-1,087.63	Landing Point
24,061.35	7,958.74	-15,533.41	-1,015.10	TD at 24061.35' MD

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INC.
WELL NAME & NO.:	SAPPHIRE CC 22_34 FEDERAL COM 13H
LOCATION:	SEC22 T24S R29E - NMP
COUNTY:	Eddy County, New Mexico

Create COAs

H_2S	Cave / Karst	Waste Prevention Rule
Present	Medium	Waste Minimization Plan

Potash	R-111-Q Design
None	

Wellhead	Casing	Cementing
Multibowl	3-String Well	DV Tool, Bradenhead, Echometer
Flex Hose	Liner, Fluid Filled, Casing Clearance	Offline Cement, Open Annulus, Pilot Hole
Break Testing		

Special Requirements

Capitan Reef, Water Disposal, COM, Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) 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

MEDIUM CAVE KARST AREA. PLEASE HAVE CONTINGENCIES IN PLACE FOR SEVER LOSSES IN SURFACE INTERVAL.

Surface Casing set point adjusted. BLM Geology Note: BLM suggests to set the surface casing at a depth of 525'. If salt is encountered, set casing at least 25' above the salt.

Approval Date: 01/22/2026

PRIMARY:

1. The **13-3/8** inch surface casing shall be set at approximately **525** 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 **9-5/8** 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.

KEEP INTERMEDIATE CASING HALF FULL DURING RUN FOR COLLAPSE SF.

3. The minimum required fill of cement behind the **7** inch x **5-1/2** inch tapered 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 **5000 (5M)** 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 1/13/2026

Approval Date: 01/22/2026

Permian Drilling
Hydrogen Sulfide Drilling Operations Plan

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

1. Escape

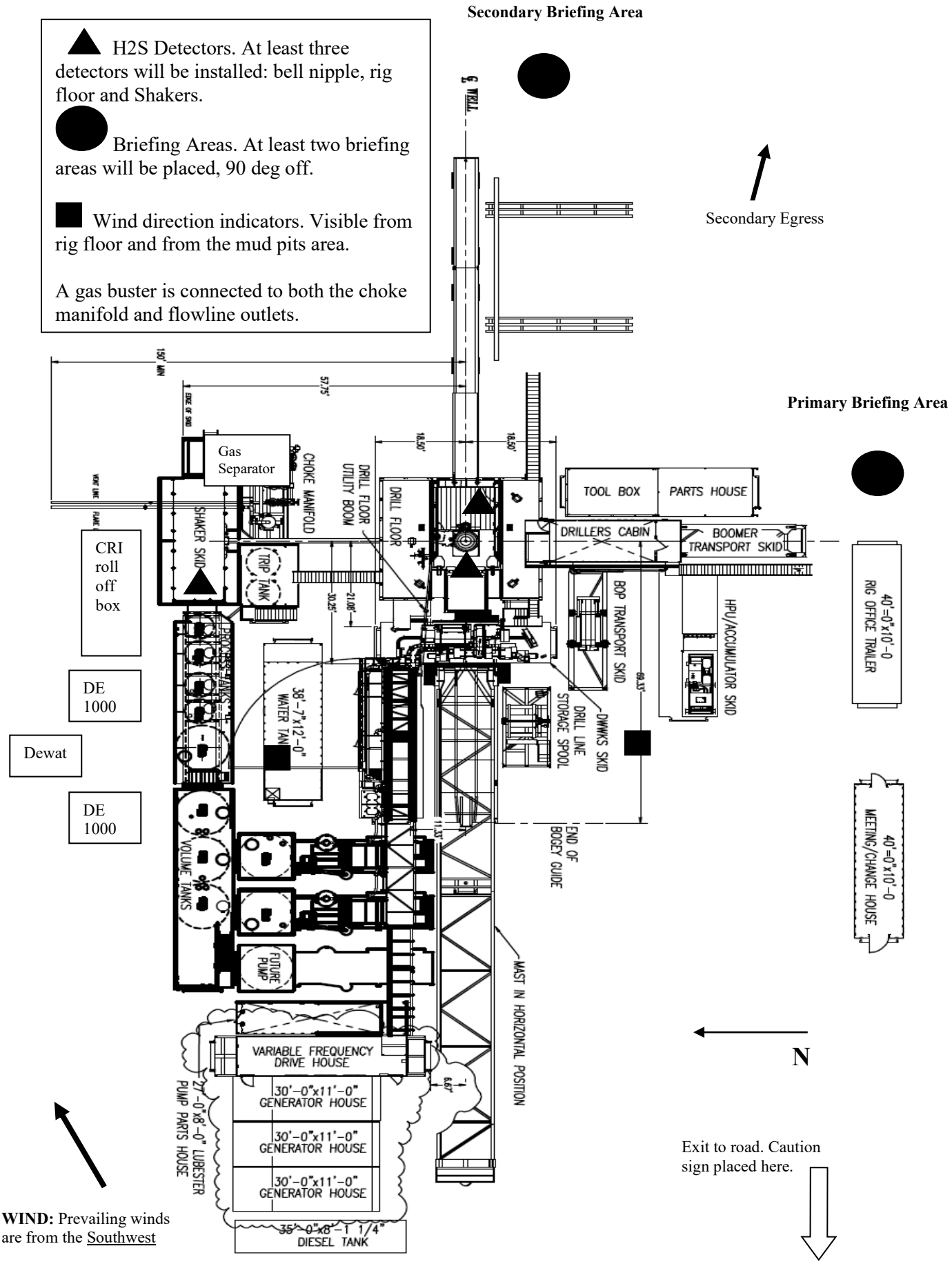
   Personnel shall escape upwind of wellbore in the event of an emergency gas release. Escape can take place through the lease road on the Southeast side of the location. Personnel need to move to a safe distance and block the entrance to location. If the primary route is not an option due to the wind direction,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

▲ H2S Detectors. At least three detectors will be installed: bell nipple, rig floor and Shakers.

● Briefing Areas. At least two briefing areas will be placed, 90 deg off.

■ Wind direction indicators. Visible from rig floor and from the mud pits area.

A gas buster is connected to both the choke manifold and flowline outlets.



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. Protective equipment for personnel

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. Visual Warning Systems

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.

green – normal conditions
yellow – potential danger
red – danger, H2S present

B. Condition flag shall be posted at each location sign entrance.

5. Mud Program

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. Metallurgy

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. Designated area

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.

Instructions for igniting the well

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.

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

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:

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.

Important: 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 Cyanide	Hcn	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	Cl2	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	Combustible 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 face-piece 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.

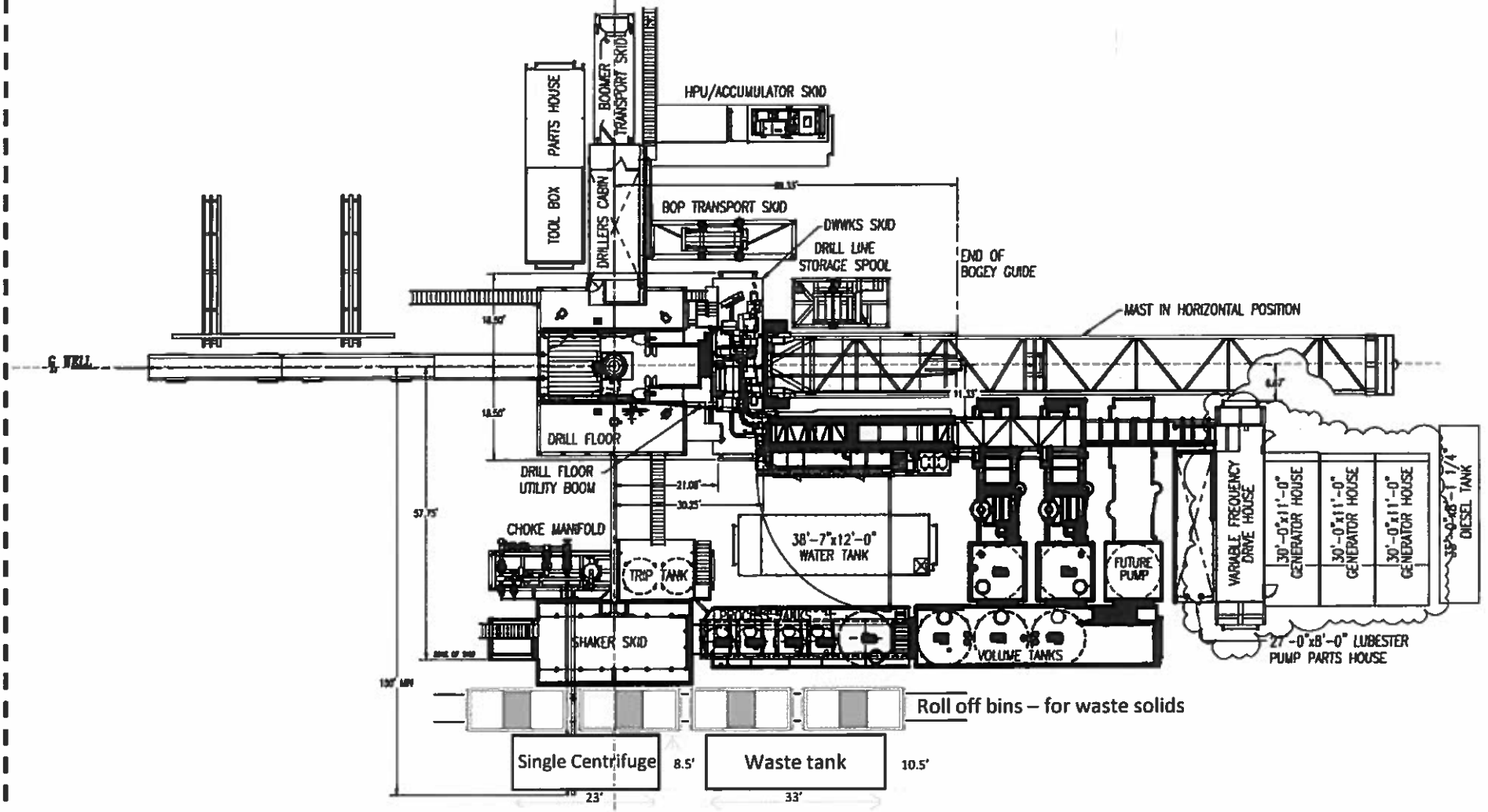
6. Notify emergency room personnel that the victim(s) has been exposed to H2S gas.

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

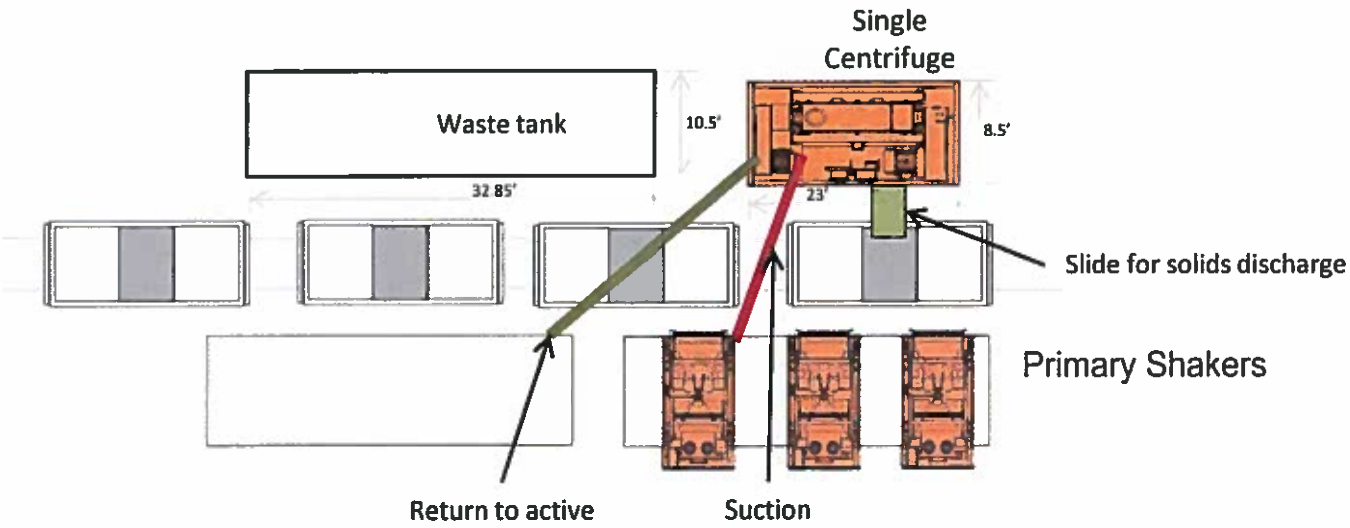
Revised CM 6/27/2012

Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

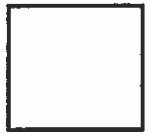
May 28, 2013



Oxy









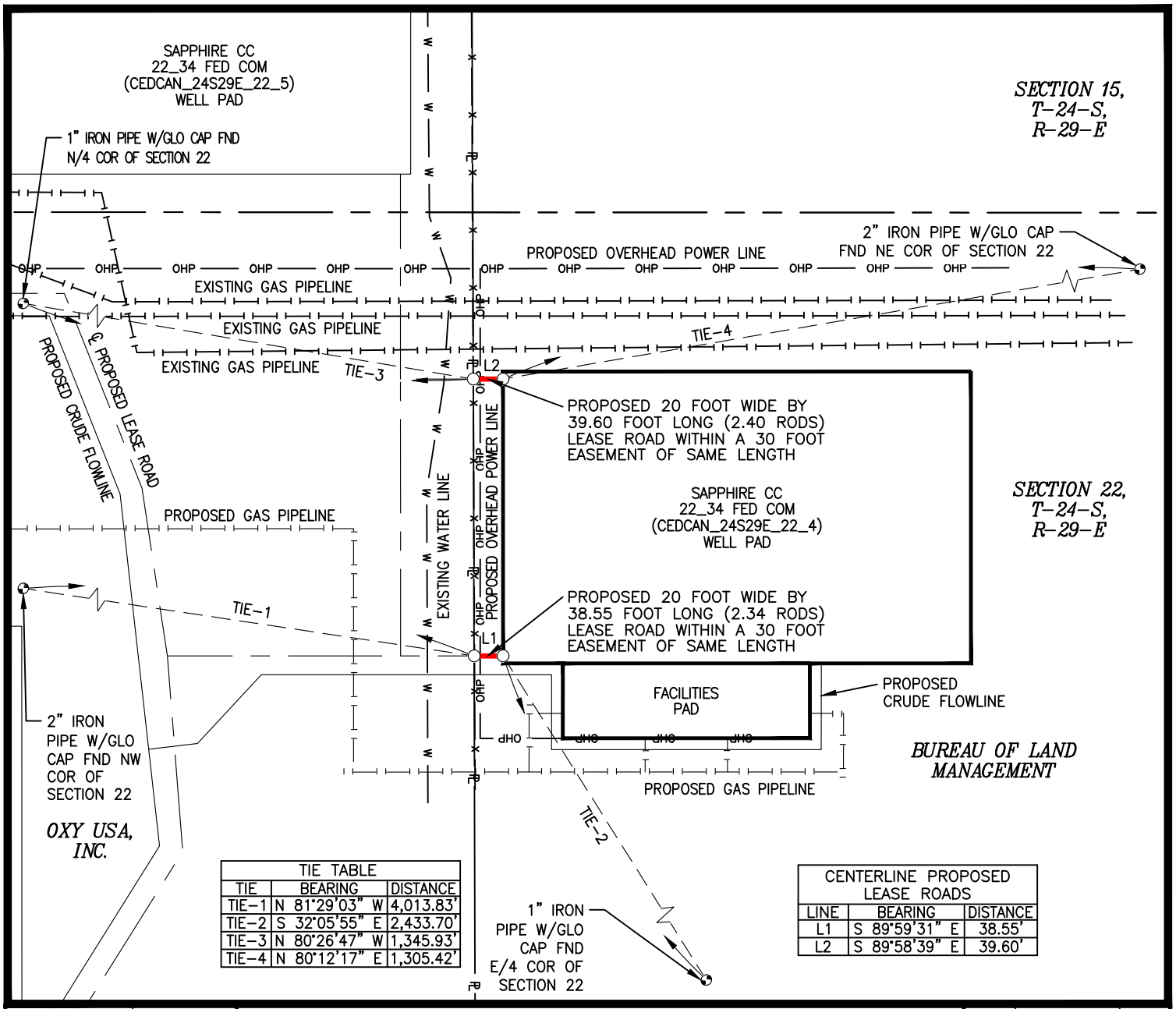
Oxy Single Centrifuge Closed Loop System – New Mexico Flex III

May 28, 2013

SITE PLAN

CEDCAN_24S29E_22_4
SEC. 22 TWP. 24-S RGE. 29-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: PIERCE CANYON, N.M.
FAA PERMIT NEEDED: NO

100' 0' 100' 200'
SCALE: 1" = 200'



TIE TABLE		
TIE	BEARING	DISTANCE
TIE-1	N 81°29'03" W	4,013.83'
TIE-2	S 32°05'55" E	2,433.70'
TIE-3	N 80°26'47" W	1,345.93'
TIE-4	N 80°12'17" E	1,305.42'

CENTERLINE PROPOSED LEASE ROADS		
LINE	BEARING	DISTANCE
L1	S 89°59'31" E	38.55'
L2	S 89°58'39" E	39.60'

09/18/2023	10/18/2023
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

1	05/21/2024	NDS
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99978652 AND A CONVERGENCE ANGLE OF 0.18505000°.)

LEGEND

- EXISTING ROAD
- PROPOSED ROAD
- SURFACE SITE EDGE
- EXIST. PIPELINE
- MONUMENT
- QUARTER SPLIT
- OHP — OVERHEAD POWER
- x — x — FENCE
- SECTION LINE
- PL — PROPERTY LINE
- W — W — WATER LINE
- SWD — SALT WATER LINE

DAVID W. MYERS
NEW MEXICO
11403
PROFESSIONAL SURVEYOR

MAY 22, 2024

DELTA FIELD SERVICES

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0027_SP06
SHEET 1 OF 3

SITE PLAN

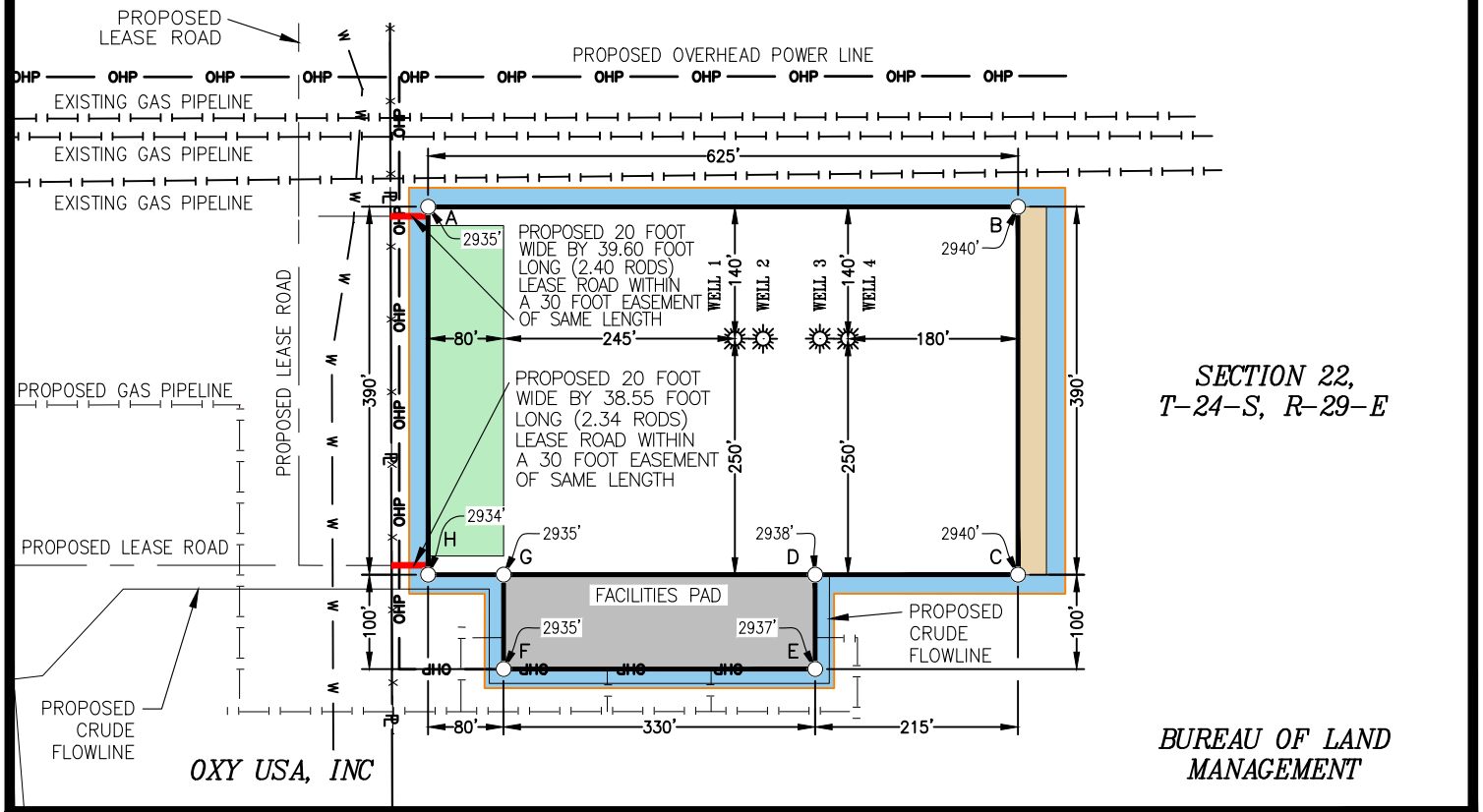
CEDCAN_24S29E_22_4
SEC. 22 TWP. 24-S RGE. 29-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: PIERCE CANYON, N.M.
FAA PERMIT NEEDED: NO

TANK BATTERY
RECLAMATION
30' TOP SOIL
20' DISTURBANCE AREA

100' 0' 100' 200'
SCALE: 1" = 200'

NAD 83		
A	E: (X) 654356.04 N: (Y) 440200.73	LAT: 32.20966061 LON: −103.96791045
B	E: (X) 654981.11 N: (Y) 440200.86	LAT: 32.20965510 LON: −103.96588947
C	E: (X) 654981.14 N: (Y) 439810.81	LAT: 32.20858291 LON: −103.96589366
D	E: (X) 654765.96 N: (Y) 439810.87	LAT: 32.20858510 LON: −103.96658939
E	E: (X) 654766.17 N: (Y) 439710.84	LAT: 32.20831012 LON: −103.96658982
F	E: (X) 654435.97 N: (Y) 439710.80	LAT: 32.20831309 LON: −103.96765742
G	E: (X) 654436.09 N: (Y) 439810.79	LAT: 32.20858792 LON: −103.96765592
H	E: (X) 654356.05 N: (Y) 439810.81	LAT: 32.20858875 LON: −103.96791470

NAD 27		
A	E: (X) 613172.02 N: (Y) 440141.89	LAT: 32.20953763 LON: −103.96742257
B	E: (X) 613797.08 N: (Y) 440142.02	LAT: 32.20953213 LON: −103.96540162
C	E: (X) 613797.10 N: (Y) 439751.98	LAT: 32.20845992 LON: −103.96540588
D	E: (X) 613581.92 N: (Y) 439752.04	LAT: 32.20846211 LON: −103.96610158
E	E: (X) 613582.13 N: (Y) 439652.01	LAT: 32.20818714 LON: −103.96610201
F	E: (X) 613251.93 N: (Y) 439651.96	LAT: 32.20819009 LON: −103.96716958
G	E: (X) 613252.05 N: (Y) 439751.94	LAT: 32.20846493 LON: −103.96716809
H	E: (X) 613172.02 N: (Y) 439751.98	LAT: 32.20846579 LON: −103.96742686



09/18/2023	10/18/2023
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

1	05/21/2024	NDS
REV.	DATE	BY

BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99978652 AND A CONVERGENCE ANGLE OF 0.18505000°.)

LEGEND

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- PROPOSED ROAD
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- W — W — WATER LINE
- SWD — SALT WATER LINE

DAVID W. MYERS NEW MEXICO 11403 PROFESSIONAL SURVEYOR

MAY 22, 2024

DELTA FIELD SERVICES

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0027_SP06
SHEET 2 OF 3

SITE PLAN

CEDCAN_24S29E_22_4
SEC. 22 TWP. 24-S RGE. 29-E
SURVEY: N.M.P.M.
COUNTY: EDDY
OPERATOR: OXY USA, INC.
U.S.G.S. TOPOGRAPHIC MAP: PIERCE CANYON, N.M.
FAA PERMIT NEEDED: NO

WELL 1
SAPPHIRE CC 22_34 FED COM 44H
OXY USA, INC.
352' FNL 962' FEL, SECTION 22
NAD 83, SPCS NM EAST
X:654680.98' / Y:440061.02'
LAT:32.20927350N / LON:103.96686138W
NAD 27, SPCS NM EAST
X:613496.95' / Y:440002.18'
LAT:32.20915053N / LON:103.96637354W
ELEVATION = 2939'

WELL 2
SAPPHIRE CC 22_34 FED COM 54H
OXY USA, INC.
352' FNL 932' FEL, SECTION 22
NAD 83, SPCS NM EAST
X:654711.01' / Y:440060.92'
LAT:32.20927295N / LON:103.96676430W
NAD 27, SPCS NM EAST
X:613526.98' / Y:440002.08'
LAT:32.20914998N / LON:103.96627646W
ELEVATION = 2938'

WELL 3
SAPPHIRE CC 22_34 FED COM 13H
OXY USA, INC.
352' FNL 872' FEL, SECTION 22
NAD 83, SPCS NM EAST
X:654771.02' / Y:440060.99'
LAT:32.20927257N / LON:103.96657027W
NAD 27, SPCS NM EAST
X:613586.99' / Y:440002.15'
LAT:32.20914960N / LON:103.96608243W
ELEVATION = 2938'

WELL 4
SAPPHIRE CC 22_34 FED COM 14H
OXY USA, INC.
352' FNL 842' FEL, SECTION 22
NAD 83, SPCS NM EAST
X:654800.90' / Y:440060.96'
LAT:32.20927223N / LON:103.96647365W
NAD 27, SPCS NM EAST
X:613616.87' / Y:440002.12'
LAT:32.20914925N / LON:103.96598582W
ELEVATION = 2939'

09/18/2023	10/18/2023
DATE SURVEYED	DATE DRAWN

I, DAVID W. MYERS, NEW MEXICO PROFESSIONAL SURVEYOR NO. 11403 DO HEREBY CERTIFY THAT THIS EASEMENT SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIVISION OR SUBDIVISION AS DEFINED IN THE NEW MEXICO SUBDIVISION ACT AND THAT THIS INSTRUMENT IS AN EASEMENT SURVEY PLAT CROSSING AN EXISTING TRACT OR TRACTS.

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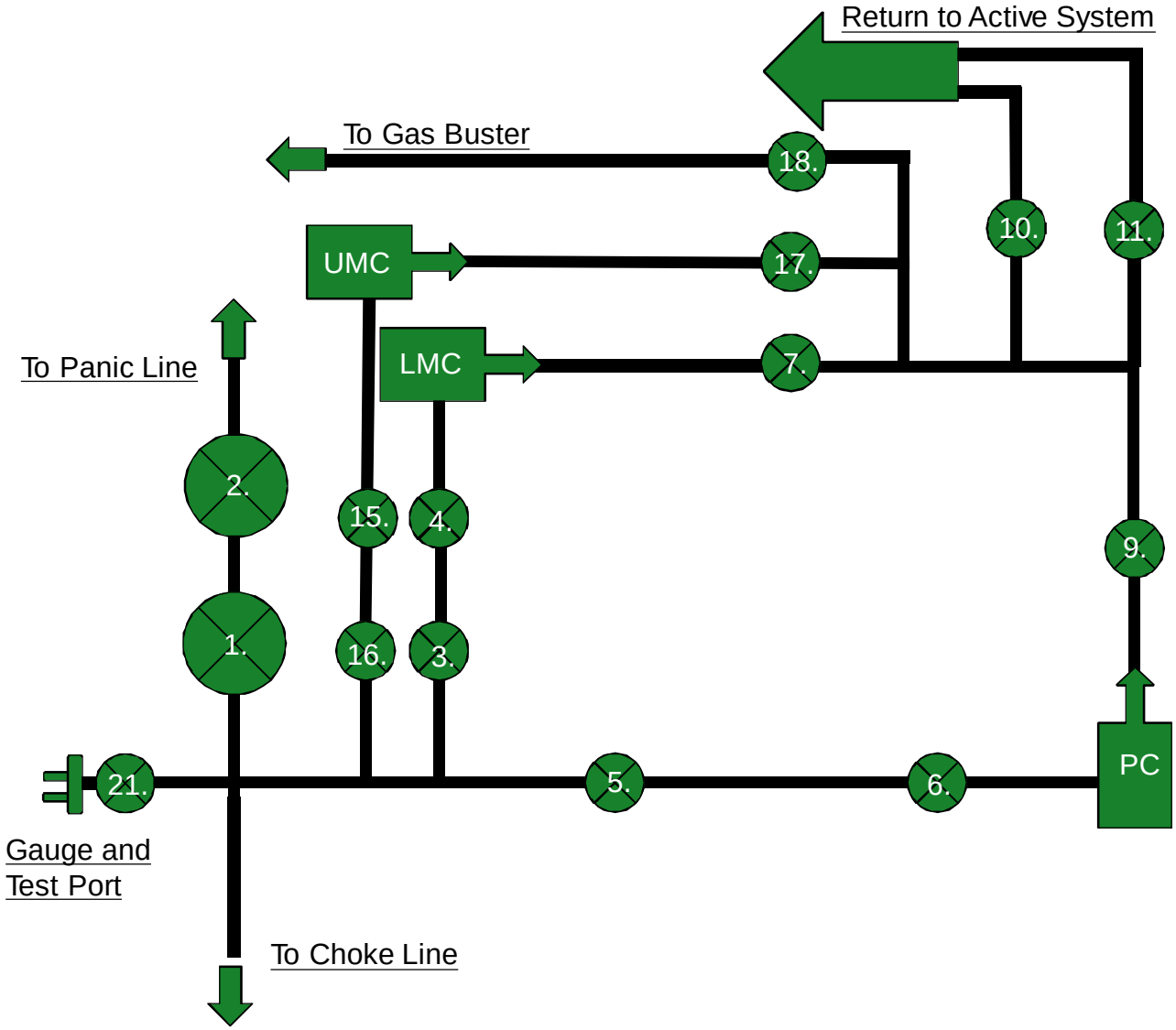
DAVID W. MYERS
NEW MEXICO
11403
PROFESSIONAL SURVEYOR

MAY 22, 2024

DELTA FIELD SERVICES

PREPARED BY:
DELTA FIELD SERVICES, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. OXY_0027_SP06
SHEET 3 OF 3

10M Choke Panel



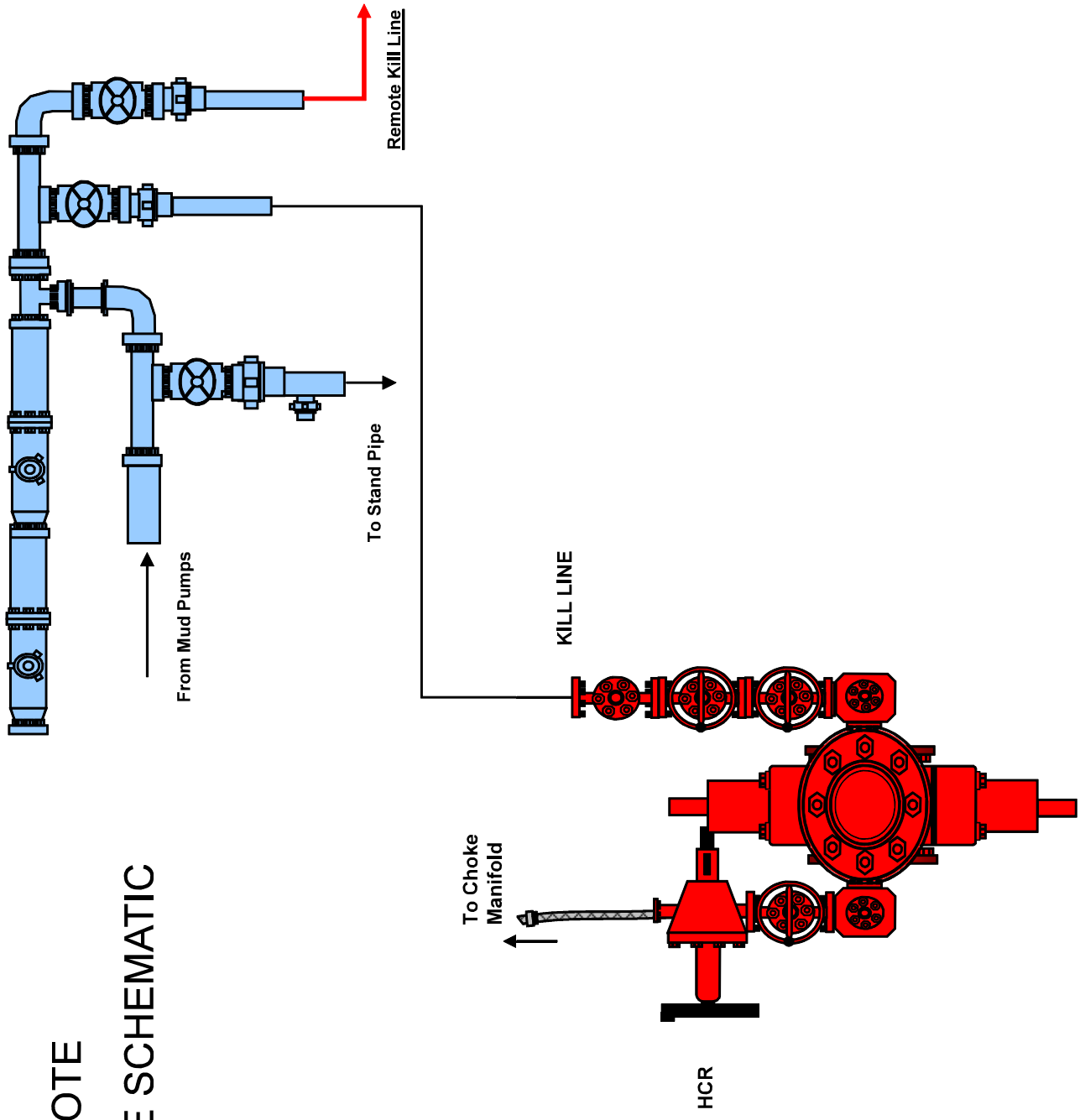
1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. PC – Power Choke
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. LMC – Lower Manual Choke
13. UMC – Upper manual choke

15. Choke Manifold Valve
16. Choke Manifold Valve
17. Choke Manifold Valve
18. Choke Manifold Valve

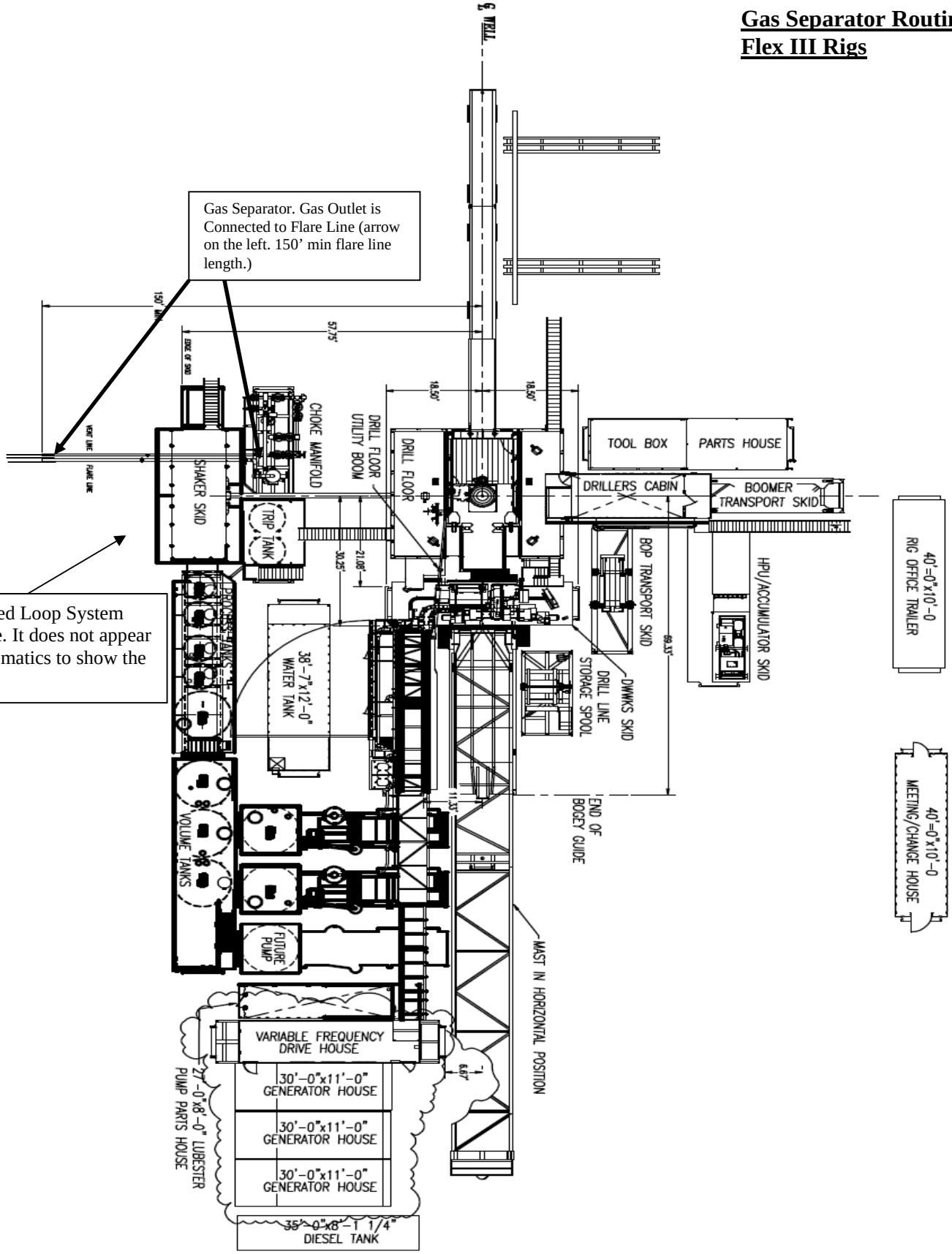
21. Vertical Choke Manifold Valve

***All Valves 3" minimum**

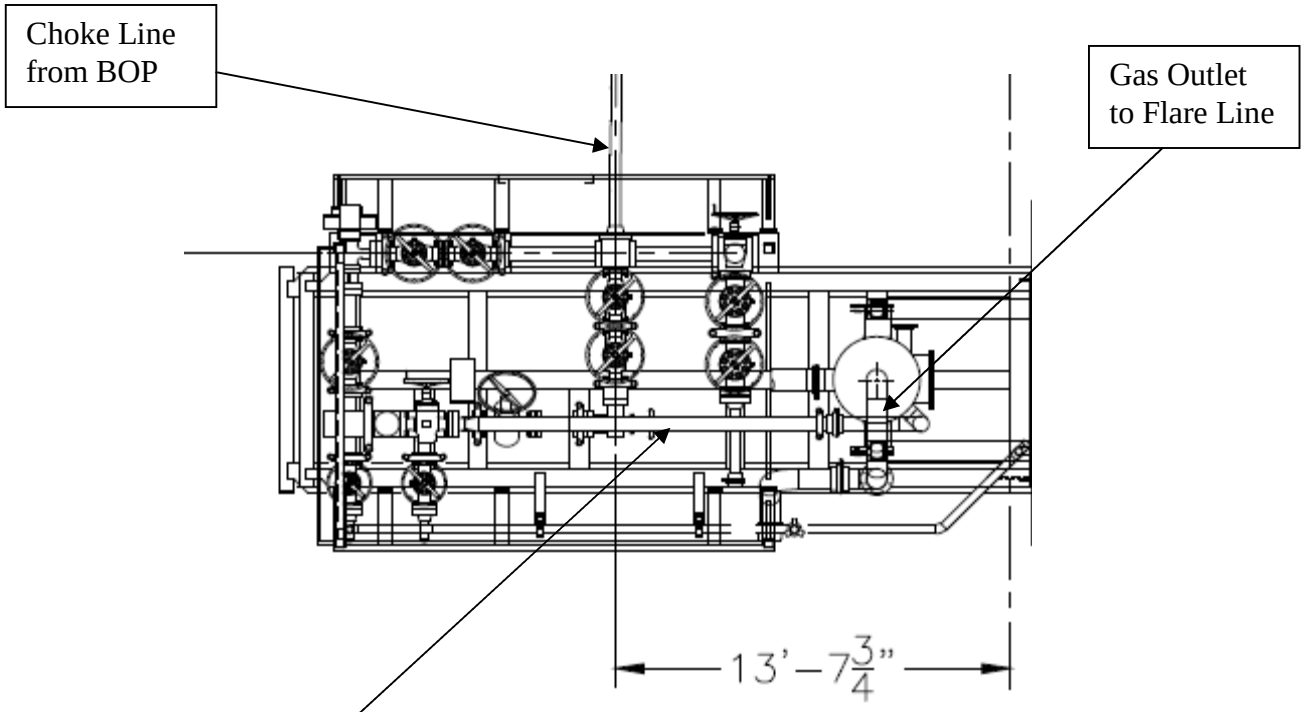
10M REMOTE KILL LINE SCHEMATIC



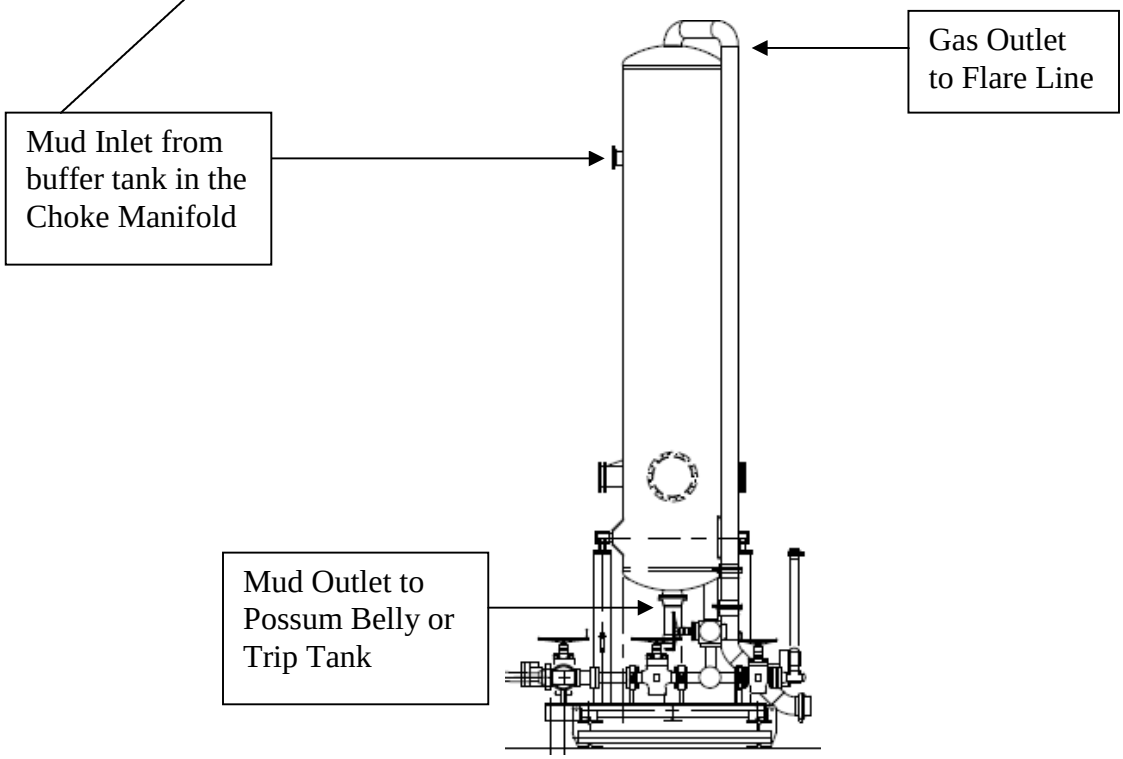
Gas Separator Routing
Flex III Rigs



Choke Manifold – Gas Separator (Top View)



Choke Manifold – Gas Separator (Side View)



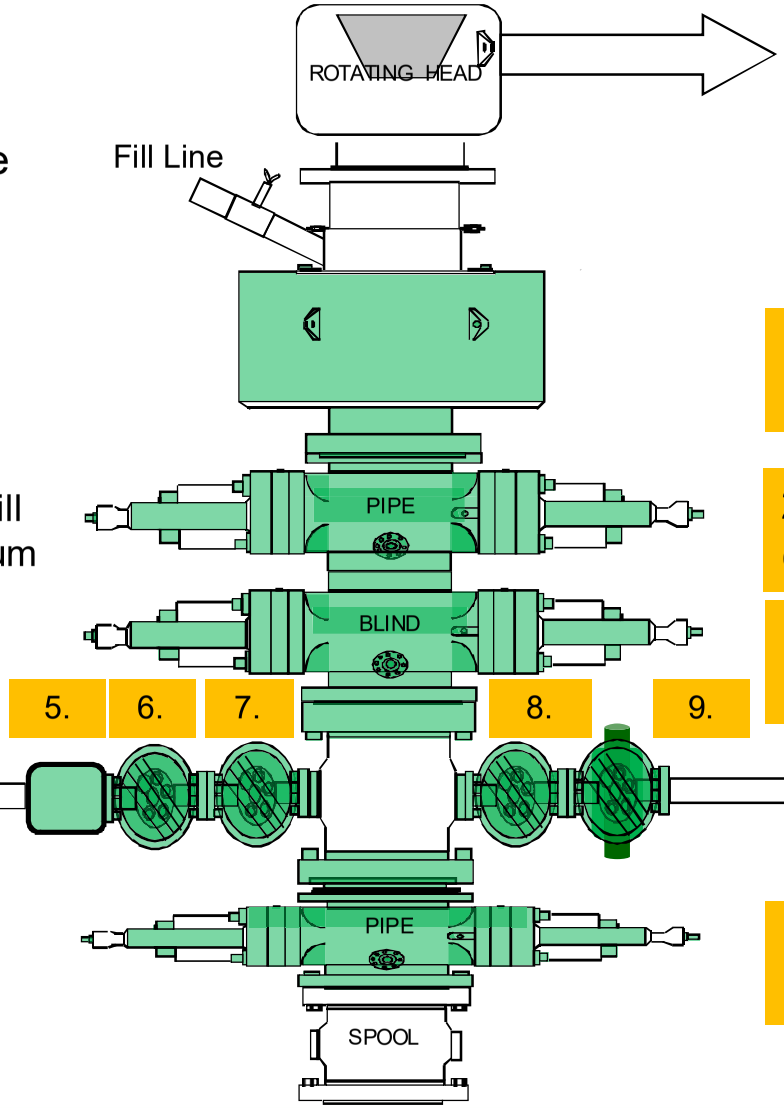
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Received by OCD: 1/27/2026 12:32:13 PM

5/10M BOP Stack

Mud Cross Valves:

5. 10M Check Valve
6. Outside 10M Kill Line Valve
7. Inside 10M Kill Line
8. Outside10M Kill Line Valve
9. 10M HCR Valve

*Minimum ID = 2-1/16” on Kill Line side and 3” minimum ID on choke line side



1. 5,000 psi Annular (13-5/8” ID)

2. 10,000 psi Upper Pipe Ram (13-5/8” ID)

3. 10,000 psi Blind Ram (13-5/8” ID)

4. 10,000 psi Lower Pipe Ram (13-5/8” ID)

Page 116 of 151

Certificate of Conformity

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100161	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 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

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Hydrostatic Test Certificate

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100161	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

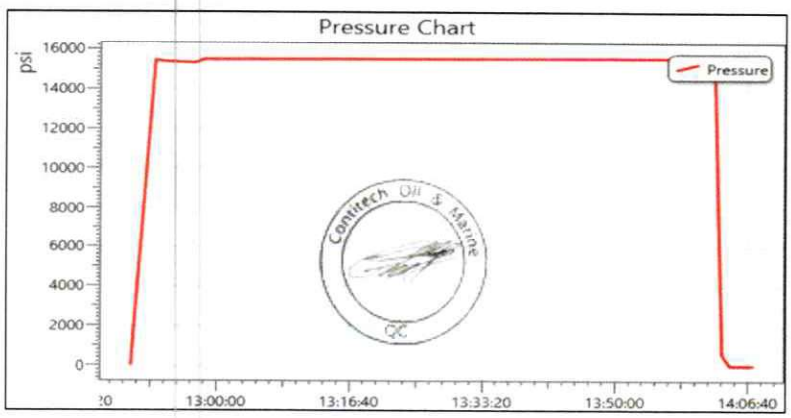
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 06/27/22	

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	1	70024	10,000	15,000	60

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



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Released to Imaging: 4/23/2026 3:37:30 PM

THIS UNIT DEC 23/22
IN USE AS.

@ Rig
2021
2019
CHOKE
HOSE

Gates Engineering & Services North America
7603 Prairie Oak Dr.
Houston, TX. 77086
PHONE : (281) 602-4119
FAX:
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.

CUSTOMER:	A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMERS P.O.#:	4128128 (RIG 1 PO 002773)
CUSTOMER P/N:	10KFR3.012.0CK411610KFIXXFLT SSA SC LE
PART DESCRIPTION:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS
SALES ORDER #:	516982
QUANTITY:	1
SERIAL #:	H2-112019-4

SIGNATURE: Norma Cabrera

TITLE: QUALITY ASSURANCE

DATE: 11/20/2019

Received by OCD: 1/27/2026 12:32:13 PM

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

PHONE: (281) 602 - 4119
FAX:
EMAIL: Troy.Schmidt@gates.com
WEB: www.gates.com

PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	11/20/2019
Customer Ref.:	4128128 (RIG 1 PO 002773)	Hose Serial No.:	H2-112019-4
Invoice No.:	516982	Created By:	Norma Cabrera

Product Description:	3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS

End Fitting 1:	4 1/16 10K FLANGES FIXED	End Fitting 2:	4 1/16 10K FLANGES FLOAT
Oracle Star No.:	68903010-9879429	Assembly Code:	L41242 113018
CUSTOMER P/N:	10KFR3.012.0CK411610KFIXXFLT SSA SC LE	Test Pressure:	15,000 PSI.
		Working Pressure:	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), 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:	QUALITY	Production:	PRODUCTION
Date :	11/20/2019	Date :	11/20/2019
Signature :	Norma Cabrera	Signature :	

F-PRD-005

Revision 1_022819

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H2-1987

11/20/2019 12:13:07 PM

TEST REPORT

CUSTOMER

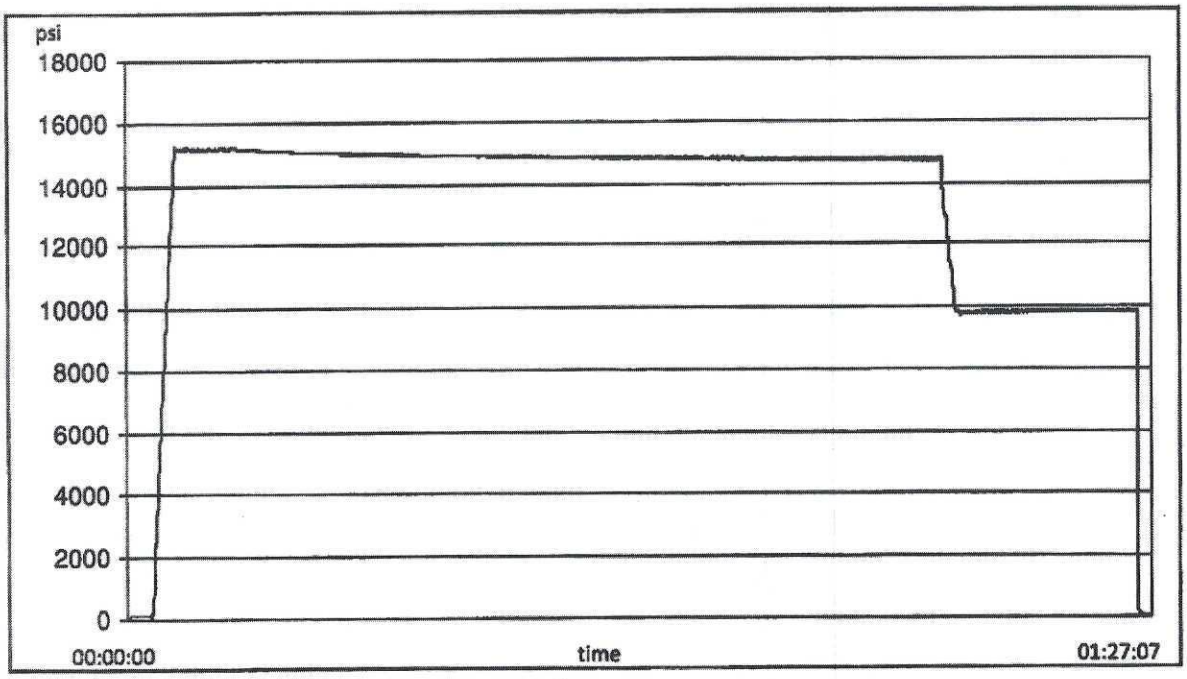
Company:	Austin Hose
Production description:	
Sales order #:	516982
Customer reference:	

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	9750.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.24	inch
Visual check:		
Pressure test result:	PASS	
Length measurement result:		
Test operator:	Roderick Shambra	

TEST OBJECT

Serial number:	H2-112019-4
Lot number:	L41242113018
Description:	
Hose ID:	3.0 10k MS C&K
Part number:	
Fitting 1:	3.0 x 4-1/16 10K
Part number:	
Description:	
Fitting 2:	3.0 x 4-1/16 10K
Part number:	
Description:	
Length:	12 feet



Filename: D:\Certificates\Report_112019-H2-112019-4.pdf

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Released to Imaging: 4/23/2026 3:37:30 PM

H2-1987

11/20/2019 12:13:07 PM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCL0	2019-03-17	2020-03-15
S-25-A-W	110AP02K	2019-04-16	2020-04-14

Comment

Received by OCD: 1/27/2026 12:32:13 PM

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Certificate of Conformance

COPY

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	CITADEL DRILLING		**Customer Contact:**	PAUL HOFFMAN 432-241-5360	
Purchase Order Information	**Customer Purchase Order Number:**	CONTACT PAUL HOFFMAN FOR INFO		**DW Industries Work Order Number:**	20020163
	DW Industries Part Number:	OA-5640-4815-1002-4		**Serial Number:**	022620DW-2
	QTY Ordered:	1		**Assembly Date:**	02/26/2020
	Customer Part Number:	OA-5640-4815-1002-4	**Part Description:**	3" 10,000 psi WP CHOKE HOSE M X F 4" 1002 HAMMER UNIONS C/W CLAMPS	

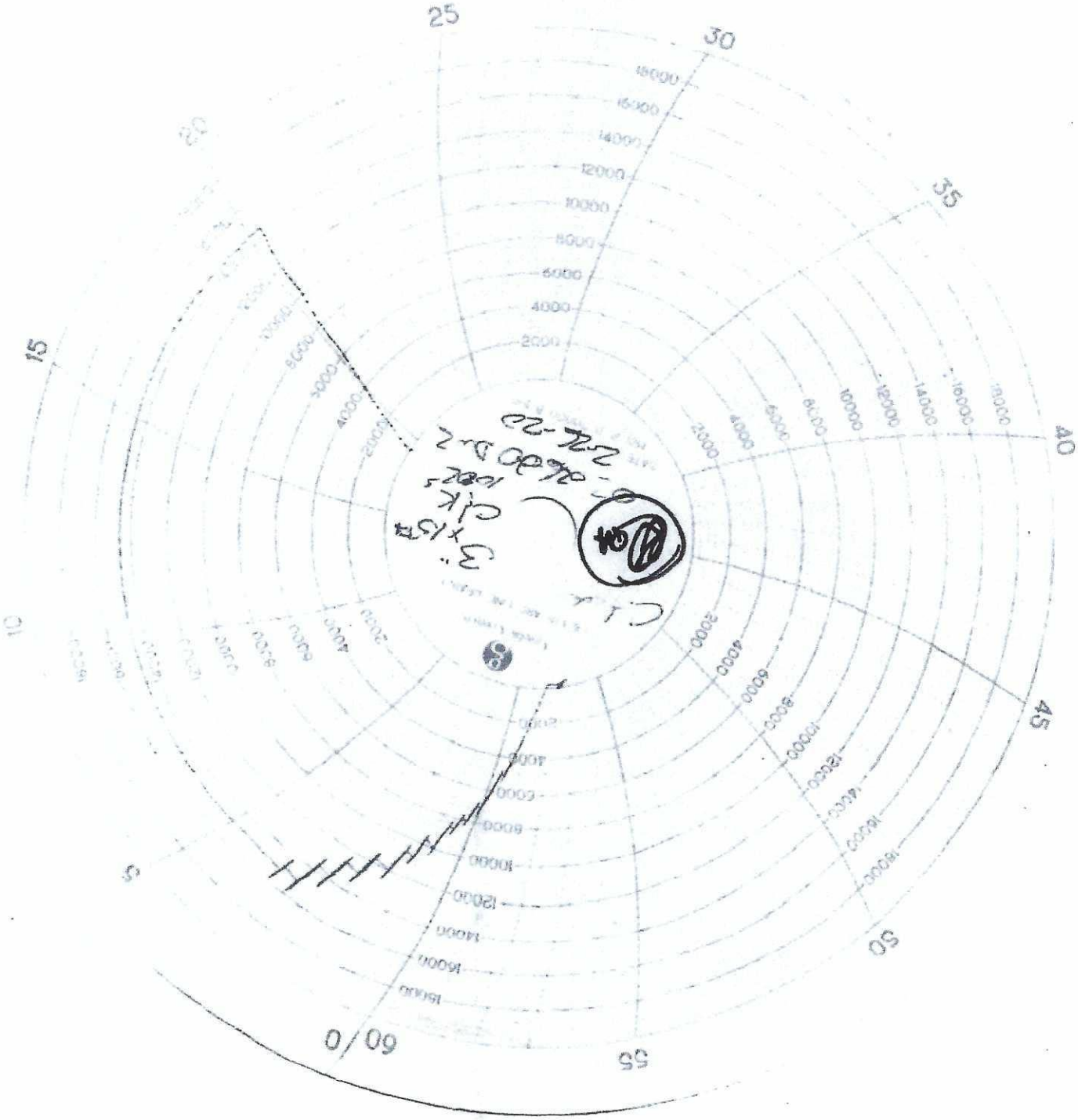
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND 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.

Received by OCD: 1/27/2026 12:32:13 PM


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COPY

Released to Imaging: 4/23/2026 3:37:30 PM

Certificate of Conformance

COPY

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	CITADEL DRILLING		**Customer Contact:**	PAUL HOFFMAN 432-241-5360	
Purchase Order Information	**Customer Purchase Order Number:**	CONTACT PAUL HOFFMAN FOR INFO		**DW Industries Work Order Number:**	20020164
	DW Industries Part Number:	OA-5640-4822-4-1/16FXFL-ALE		**Serial Number:**	022620DW-1
	QTY Ordered:	1		**Assembly Date:**	02/26/2020
	Customer Part Number:	OA-5640-4822-4-1/16FXFL-ALE	**Part Description:**	3" 10,000 psi WP CHOKE HOSE 4-1/16" FIXED BY FLOAT FLANGES C/W SS ARMOR & LIFTING EYES	

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: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, 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.

Received by OCD: 1/27/2026 12:32:13 PM

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02-26-20 Dwl
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4 1/16 E/E
3" CLK
PUMP CHART

COPY

Released to Imaging: 4/23/2026 3:37:30 PM

Certificate of Conformance

DW INDUSTRIES INC.
6287 Long Drive
Houston, TX 77087
Tel. 713 644-8372 Fax 713-644-4947

Customer Name:	ASUTIN HOSE		**Customer Contact:**	JUDY LOERA	
Purchase Order Information	**Customer Purchase Order Number:**	00704977		**DW Industries Work Order Number:**	23010065
	DW Industries Part Number:	OA-PS5038-64154"-602		**Serial Number:**	23010065
	QTY Ordered:	1		**Assembly Date:**	1/27/2023
	Customer Part Number:		**Part Description:**	4"X154" 3K W/4" FIG 602 MXF	

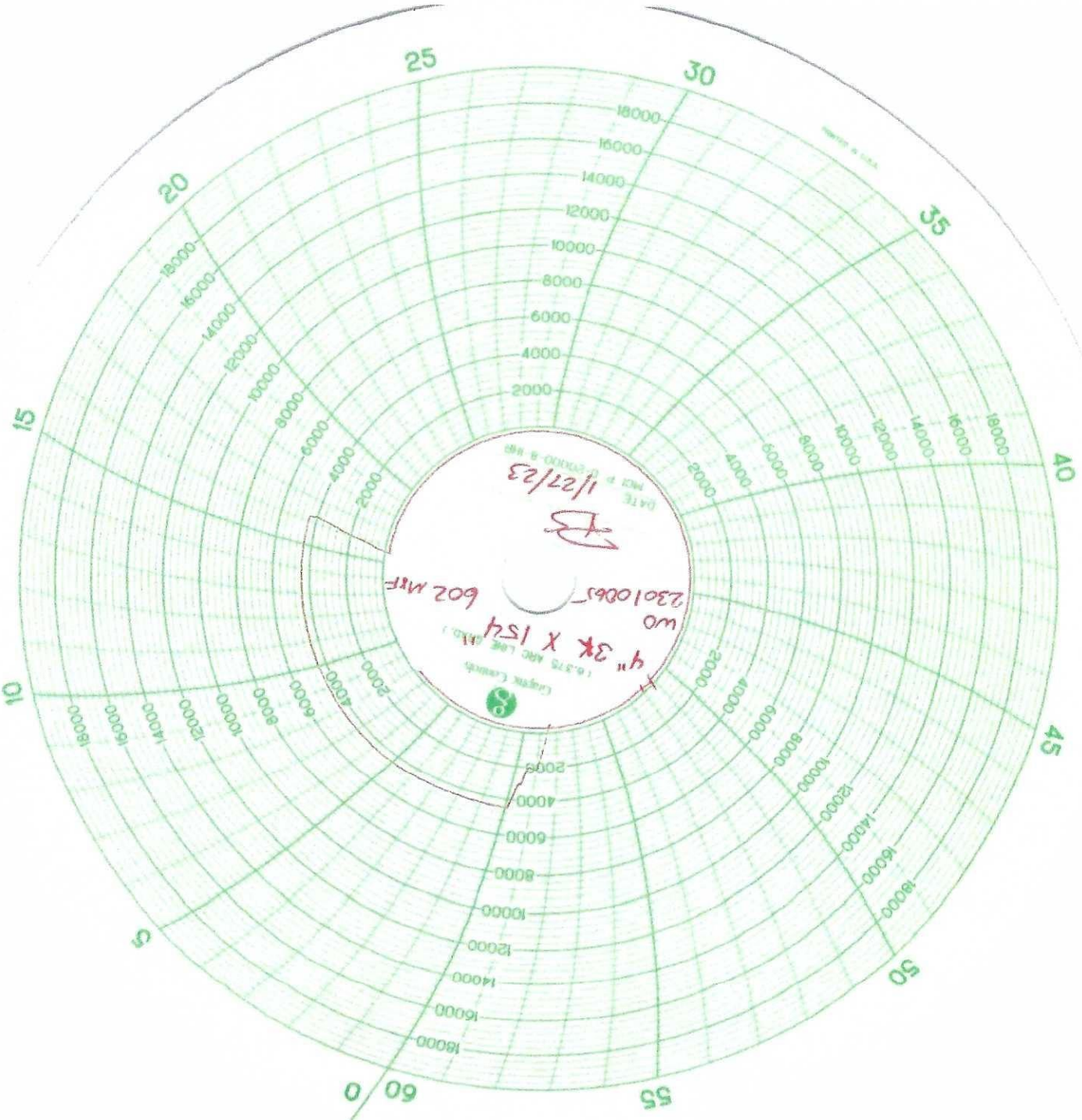
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND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

Certificate Issue Date: 1/27/2023

Quality Assurance,
DW Industries, Inc.

QF-018-OF, Rev New
Rev Date: 12/17/2019

Received by OCD: 1/27/2026 12:32:13 PM


1/27/23
4" 3K X 15H
230100865
602 MTF

IN SERVICE
12-20-21

BLACK GOLD®

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/oilandgas

PRESSURE TEST CERTIFICATE

Customer:	A-7 AUSTIN INC DBA AUSTIN HOSE	Test Date:	10/15/2021
Customer Ref.:	00595477	Hose Serial No.:	H3-101521-2
Invoice No.:	521925	Created By:	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:	4 1/16 10K FIXED FLANGE	End Fitting 2:	4 1/16 10K FLOAT HEAT TREATED FLANGES
Oracle Star No.:	68703010-10074881	Assembly Code:	L41975 091719
CUSTOMER P/N:	10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE	Test Pressure:	15,000 PSI.
		Working Pressure:	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:	QUALITY	Production:	PRODUCTION
Date :	10/15/2021	Date :	10/15/2021
Signature :	Micky Mhina	Signature :	

F-PRD-005B

Revision 6_05032021

BLACK GOLD®

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/oilandgas

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
PART 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
SALES ORDER #:	521925
QUANTITY:	1
SERIAL #:	H3-101521-2

SIGNATURE: Mayra Wm

TITLE: QUALITY ASSURANCE

DATE: 10/15/2021

H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

CUSTOMER

Company: Austin Distributing

Production description:

Sales order #: 521925

Customer reference:

TEST INFORMATION

Test procedure:	GTS-04-053	
Test pressure:	15000.00	psi
Test pressure hold:	3600.00	sec
Work pressure:	10000.00	psi
Work pressure hold:	900.00	sec
Length difference:	0.00	%
Length difference:	0.00	inch

Visual check:

Pressure test result: PASS

Length measurement result:

Test operator: francisco

TEST OBJECT

Serial number: H3-101521-2

Lot number: L41975091719

Description:

Hose ID: 3" 10k ck

Part number:

Fitting 1: 3.0 x 4-1/16 10K

Part number:

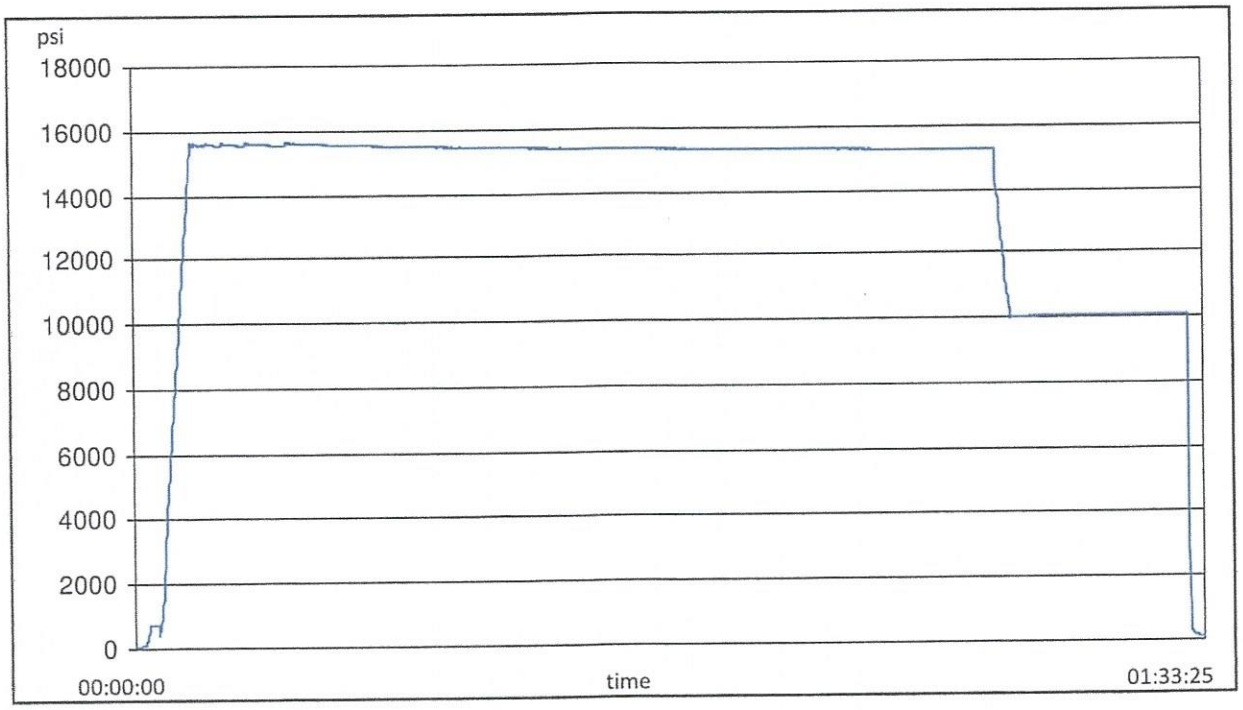
Description:

Fitting 2: 3.0 x 4-1/16 10K

Part number:

Description:

Length: 35 feet



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

H3-6963

10/15/2021 10:15:57 AM

TEST REPORT

GAUGE TRACEABILITY

Description	Serial number	Calibration date	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

Hydrostatic Test Certificate

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

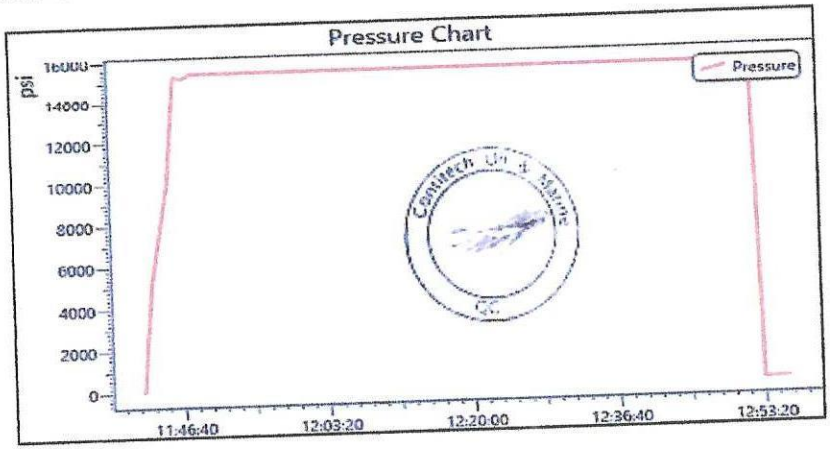
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 07/14/22	

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)
50	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70025	10,000	15,000	60

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



Continental

Certificate of Conformity

ContiTech

Certificate Number	COM Order Reference	Customer Name & Address
H100163	1429702	HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA
Customer Purchase Order No:	740382384	
Project:		

Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo Date: 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

Installed

4-29-22

Continental

ContiTech

CONTITECH RUBBER Industrial Kft.	No: QC-DB- 120 / 2019
	Page: 16 / 91

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE					CERT. N°:	75819	
PURCHASER:	ContiTech Oil & Marine Corp.				P.O. N°:	4501225327	
CONTITECH RUBBER order N°:	1127442	HOSE TYPE:	3"	ID	Choke and Kill Hose		
HOSE SERIAL N°:	75819	NOMINAL / ACTUAL LENGTH:			10,67 m / 10,68 m		
W.P. 69,0 MPa	10000 psi	T.P. 103,5 MPa	15000 psi		Duration:	60	min.

Pressure test with water at ambient temperature

See attachment (1 page)

COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	6026	AISI 4130	A0607J
4 1/16" 10K API Swivel Flange end		AISI 4130	040841
Hub		AISI 4130	54194
3" coupling with	6016	AISI 4130	A0607J
4 1/16" 10K API b.w. Flange end		AISI 4130	040431

Not Designed For Well Testing

API Spec 16 C 2nd Edition– FSL2

Temperature rate: "B"

All metal parts are flawless

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Date:	Inspector	Quality Control
08. April 2019.		ContiTech Rubber Industrial Kft. Quality Control Dept. (1)

Hose Assembly Evaluation Sheet

Prepared by	Cristian Rivera		Date:	8/27/2022		QIN:	N/A
Customer:	HELMERICH & PAYNE, INC		Location:	H&P INT'L DRILLING CO 210 MAGNOLIA DR GALENA PARK,TX,77547-2738			
User contact:	MITCH MCKINNIS		Phone:			e-mail:	mitch.mckinnis@hpinc.com

	Parameters	Hose Details	Test Status
Application Information	PO	740398454 (88000240 | SN:70035)	PASS
	Gates SO	525035	
	Serial #:	88000240 | SN:70035	
	As Tested Serial:	H2-082722-1 RE-TEST	
	Hose ID:	3 IN	
	Hose type:	INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END	
	Working pressure:	10000 PSI.	

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.

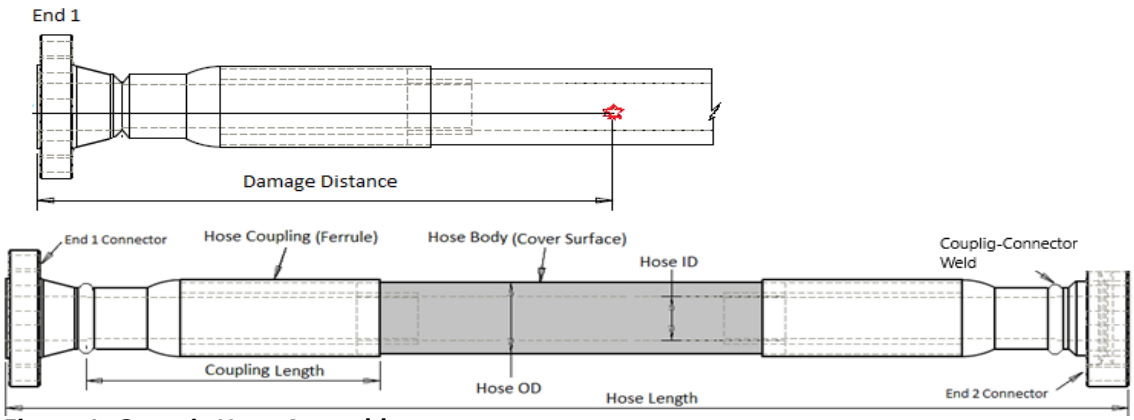


Figure 1: Generic Hose Assembly

Hose Assembly Evaluation Sheet

1.0 Observations and comments

	Comments
1	 Photos: ID.
2	 Photo: Damaged armor areas

Hose Assembly Evaluation Sheet

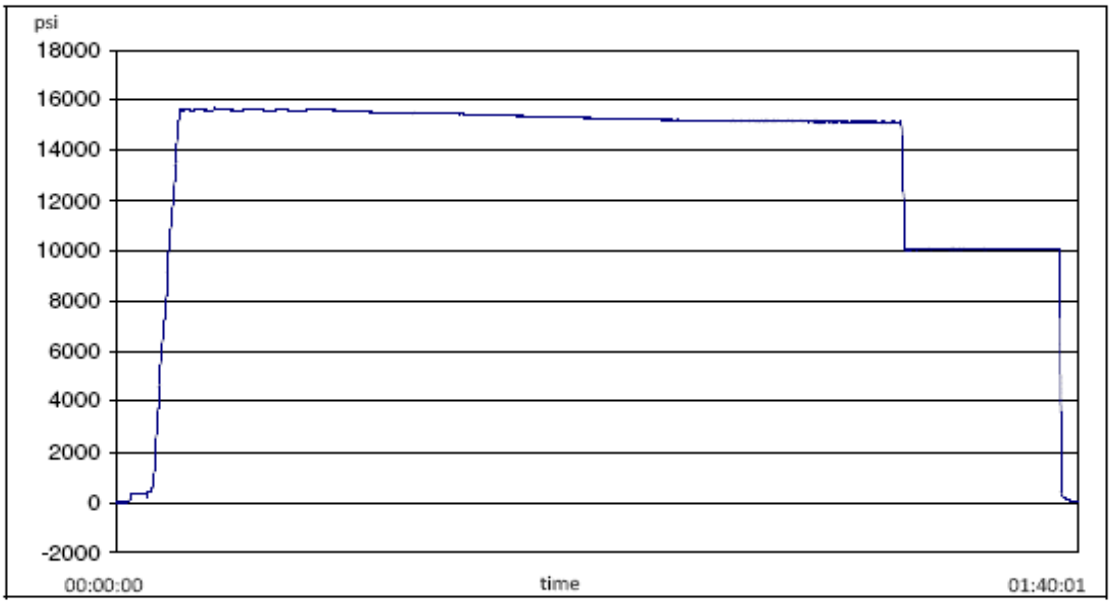
3	 **Photos: At Shipping.**
4	 **Photos: Armor and Engraving.**

Hose Assembly Evaluation Sheet

5	

Photo: In the Crate

2. Hydro Static Pressure test



2.1 Hydrostatic Pressure test Procedures

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

Hose Assembly Evaluation Sheet

2.3 Hydro Static Test Pressure results

	Details	Results	
1	Hydrostatic Test Results [1]	Pass	~~Fail~~
2	Failure Mode	None	
3	Hose Dispatched to the customer?	Yes	~~No~~

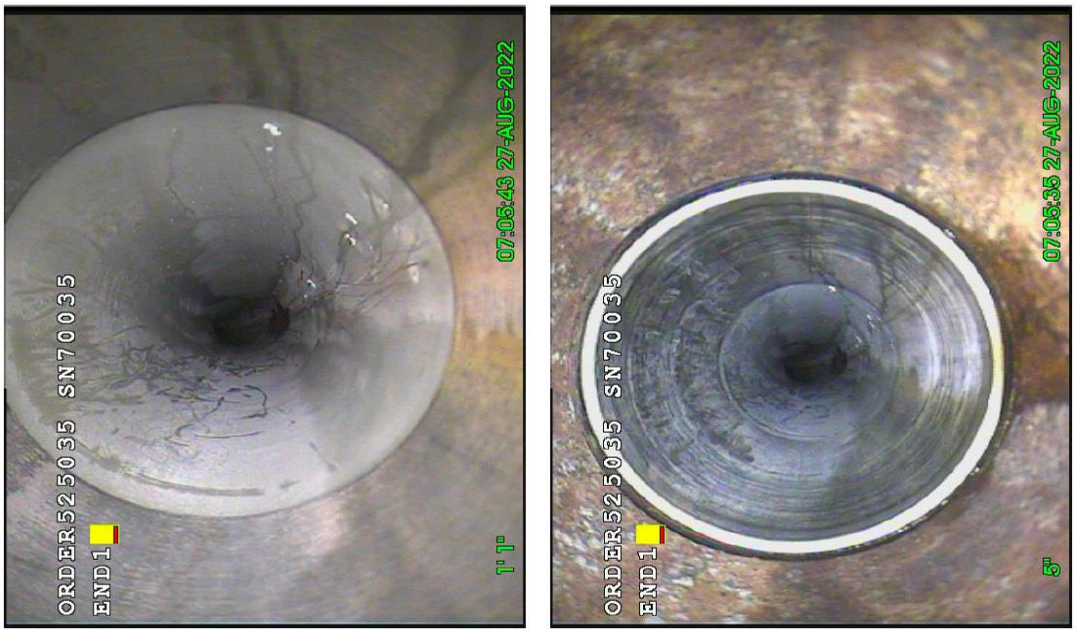
Note:

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

Hose Assembly Evaluation Sheet





Photos: Liner/Coupling Interface END 2

Note

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.

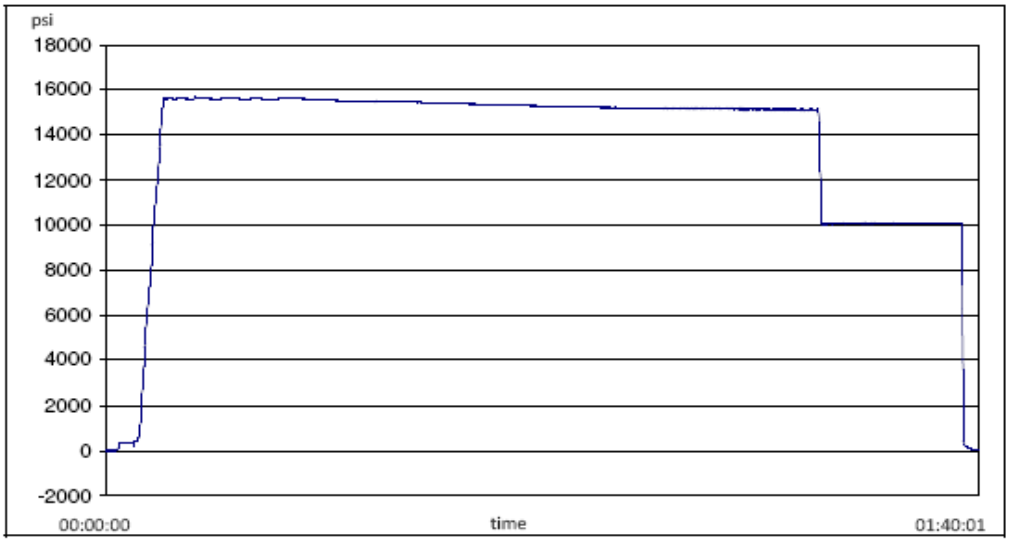
Hose Assembly Evaluation Sheet

APPENDIX 1:
Pressure Chart

H2-8316
8/27/2022 8:51:22 AM

TEST REPORT

CUSTOMER			**TEST OBJECT**		
Company:			Serial number:	H2-082722-1	
			Lot number:		
Production description:			Description:		
Sales order #:	525035				
Customer reference:	740398454 (88000240 | SN:70035)		Hose ID:	3 10k C&K	
			Part number:		
TEST INFORMATION					
Test procedure:	3 10K C&K		Fitting 1:	3.0 x 4-1/16 10K	
Test pressure:	15000.00	psi	Part number:		
Test pressure hold:	3600.00	sec	Description:		
Work pressure:	10000.00	psi			
Work pressure hold:	900.00	sec	Fitting 2:	3.0 x 4-1/16 10K	
Length difference:	0.00	%	Part number:		
Length difference:	0.00	inch	Description:		
Visual check:			Length:	35	feet
Pressure test result:	PASS				
Length measurement result:					
Test operator:	Martin				



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

Hose Assembly Evaluation Sheet

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

Hose Assembly Evaluation Sheet

APPENDIX 2:
Certificate of Conformance

BLACK GOLD®

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

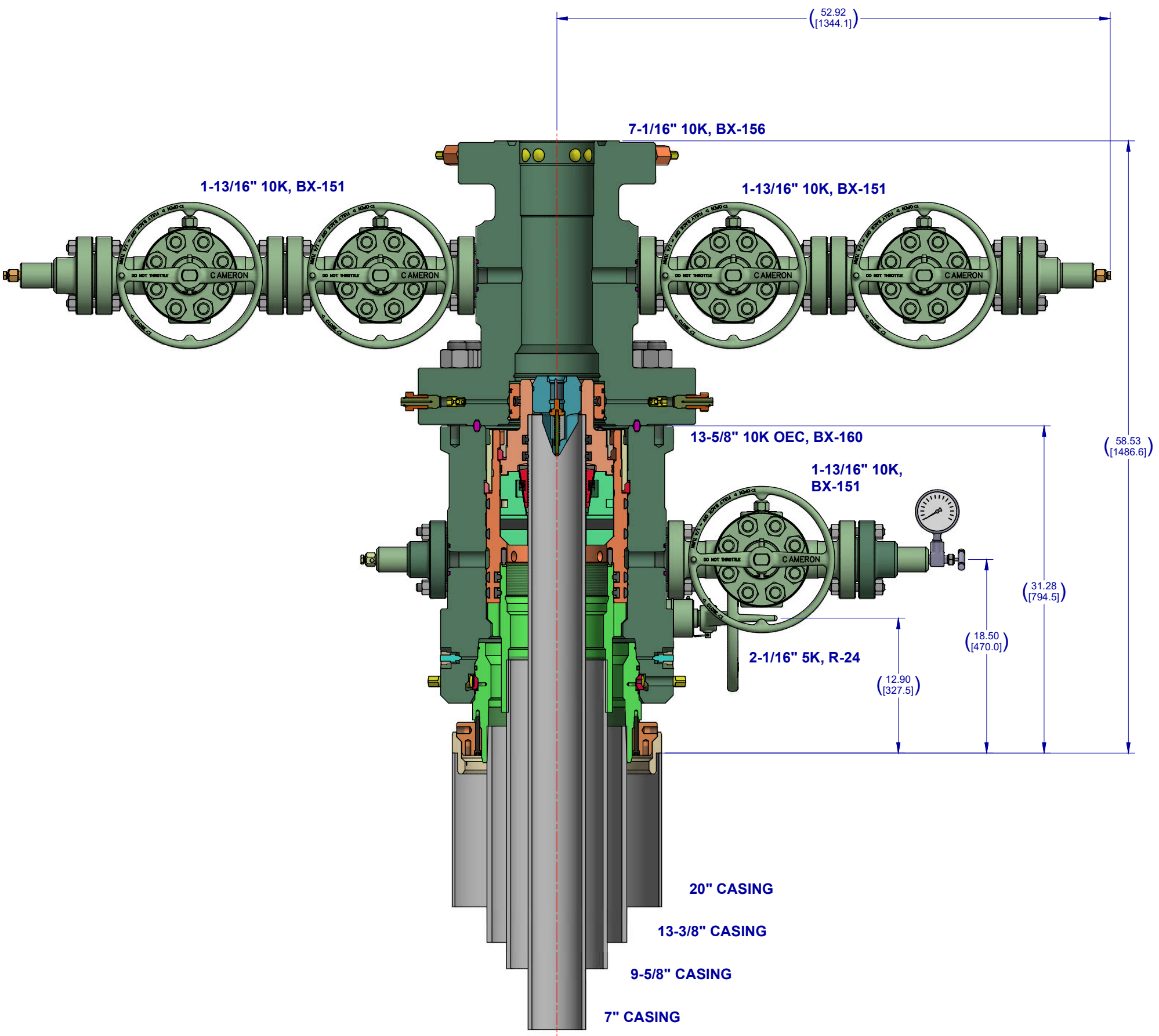
PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/oilandgas

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:	1
SERIAL #:	H2-082722-1 RE-TEST

SIGNATURE: _____
TITLE: QUALITY ASSURANCE
DATE: 8/27/2022



Notes:

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

2. DIGITALLY ENABLED SOLUTIONS, CHOKES AND ESD'S AVAILABLE ON REQUEST

CONFIDENTIAL

SURFACE TREATMENT	DO NOT SCALE		CAMERON A Schlumberger Company	SURFACE SYSTEMS
	DRAWN BY: D. GOTTUNG	DATE 18 Feb 22		
MATERIAL & HEAT TREAT	CHECKED BY: D. GOTTUNG	DATE 18 Feb 22	OXY 13-5/8" 10K ADAPT 20" X 13-3/8" X 9-5/8" X 7"	
	APPROVED BY: D. GOTTUNG	DATE 18 Feb 22		
ESTIMATED WEIGHT: 6115.068 LBS 2773.748 KG	INITIAL USE B/M:		SHEET 1 OF 1	SD-053434-94-12 REV: 01

INVENTOR - D



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
7.000	Nominal: 32.00 Plain End: 31.70	0.453	VST P110 RY	6.000	87.5	DWC/C

PIPE PROPERTIES

Nominal OD	7.000	in.
Nominal ID	6.094	in.
Nominal Area	9.317	sq.in.
Grade Type	API 5CT	
Min. Yield Strength	110	ksi
Max. Yield Strength	125	ksi
Min. Tensile Strength	125	ksi
Yield Strength	1,025	klb
Ultimate Strength	1,165	klb
Min. Internal Yield	12,460	psi
Collapse	10,780	psi

CONNECTION PROPERTIES

Connection Type	Semi-Premium T&C	
Connection OD (nom)	7.875	in.
Connection ID (nom)	6.094	in.
Make-Up Loss	4.500	in.
Coupling Length	9.000	in.
Critical Cross Section	9.317	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES

Yield Strength	1,025	klb
Parting Load	1,165	klb
Compression Rating	1,025	klb
Min. Internal Yield	12,460	psi
External Pressure Resistance	10,780	psi
Maximum Uniaxial Bend Rating	36.0	°/100 ft
Ref String Length w 1.4 Design Factor	22,880	ft

FIELD TORQUE VALUES

Min. Make-up Torque	29,700	ft.lbs
Opti. Make-up Torque	32,200	ft.lbs
Max. Make-up Torque	34,700	ft.lbs
Min. Shoulder Torque	2,970	ft.lbs
Max. Shoulder Torque	23,760	ft.lbs
Max. Delta Turn	0.200	Turns
Connection Yield Torque	39,800	ft.lbs

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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07/09/2025 3:45 PM



VAM USA
2107 CityWest Boulevard Suite 1300
Houston, TX 77042
Phone: 713-479-3200
Fax: 713-479-3234
VAM USA Sales E-mail: VAMUSAsales@vam-usa.com
Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data 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.

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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07/09/2025 3:45 PM

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)
- 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.

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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 546979
	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.

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CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
guthries	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/27/2026
guthries	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/27/2026
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	4/23/2026
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	4/23/2026
ward.rikala	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.	4/23/2026
ward.rikala	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.	4/23/2026
ward.rikala	If the method of isolation was not by circulation, a CBL must be performed; if strata isolation is not achieved, then remediation will be required before further operations.	4/23/2026
ward.rikala	Post Bradenhead cement squeeze, a CBL will be required. If zonal isolation was not achieved per OCD requirements, then remedial work is required before operations can continue.	4/23/2026