



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

Operator Certification Data Report

05/27/2025

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: 11/04/2024

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:

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Email address: michael_wilson@oxy.com



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

Application Data

05/27/2025

APD ID: 10400101732

Submission Date: 11/07/2024

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Section 1 - General

APD ID: 10400101732

Tie to previous NOS? N

Submission Date: 11/07/2024

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: NMNM102914

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: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PIERCE
CROSSING

Pool Name: Bone Spring

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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_T24SR29E

Number: 1710

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: 597 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat: SALTFLATCC20_29FEDCOM74H_SitePlan_20241030120857.pdf

SALTFLATCC20_29FEDCOM74H_C102_20241031080210.pdf

Well work start Date: 11/07/2025

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	597	FSL	1142	FEL	24S	29E	17	Aliquot SESE	32.211936	- 104.001756	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	2927			N
KOP Leg #1	300	FSL	2190	FEL	24S	29E	17	Aliquot SWSE	32.211135	- 104.005146	EDD Y	NEW MEXI CO	NEW MEXI CO	F	FEE	- 5743	8763	8670	N

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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	2190	FEL	24S	29E	20	Aliquot NWNE	32.210036	- 104.005146	EDD Y	NEW MEXICO	NEW MEXICO	F	FEE	- 6275	9632	9202	Y
PPP Leg #1-2	1328	FNL	2197	FEL	24S	29E	20	Aliquot SWNE	32.20666	- 104.005148	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 102914	- 6271	10683	9198	Y
PPP Leg #1-3	2657	FNL	2204	FEL	24S	29E	20	Aliquot NWSE	32.203009	- 104.00515	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 119273	- 6267	12011	9194	Y
PPP Leg #1-4	0	FNL	2191	FEL	24S	29E	29	Aliquot NWNE	32.195713	- 104.005154	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 94651	- 6258	14665	9185	Y
PPP Leg #1-5	2660	FNL	2191	FEL	24S	29E	29	Aliquot NWSE	32.188402	- 104.005157	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 53229	- 6249	17326	9176	Y
EXIT Leg #1	100	FSL	2190	FEL	24S	29E	29	Aliquot SWSE	32.181369	- 104.005161	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 53229	- 6241	19888	9168	Y
BHL Leg #1	20	FSL	2190	FEL	24S	29E	29	Aliquot SWSE	32.181149	- 104.005161	EDD Y	NEW MEXICO	NEW MEXICO	F	NMNM 53229	- 6241	19967	9168	N



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Drilling Plan Data Report

05/27/2025

APD ID: 10400101732

Submission Date: 11/07/2024

Highlighted data
reflects the most
recent changes

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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
15646959	RUSTLER	2927	276	276	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
15646960	SALADO	2329	598	598	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
15646961	CASTILE	1680	1247	1247	ANHYDRITE	OTHER : SALT	N
15646962	DELAWARE	126	2801	2801	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
15646963	BELL CANYON	62	2865	2865	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
15646964	CHERRY CANYON	-805	3732	3734	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	N
15646965	BRUSHY CANYON	-2055	4982	5005	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
15646966	BONE SPRING	-3649	6576	6629	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15646967	BONE SPRING 1ST	-4596	7523	7594	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
15646968	BONE SPRING 2ND	-5410	8337	8423	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M

Rating Depth: 9202

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

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COMWell Number: 74H

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

Choke Diagram Attachment:

SALTFLATCC20_29FEDCOM74H_ChkManifolds_20241031085534.pdf

BOP Diagram Attachment:

SALTFLATCC20_29FEDCOM74H_BOP_20241031085541.pdf

SALTFLATCC20_29FEDCOM74H_FlexHoseCert_20241031085610.pdf

SALTFLATCC20_29FEDCOM74H_13inADAPT_10.75in_7.625in_10x10_20241031085616.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	14.75	10.75	NEW	API	N	0	538	0	538	2927	2389	538	J-55	45.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	INTERMEDIATE	9.875	7.625	NEW	API	N	0	9632	0	9202	3698	-6275	9632	HCL-80	26.4	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
3	PRODUCTION	6.75	5.5	NEW	API	N	0	19967	0	9202	3698	-6275	19967	P-110	20	OTHER - SPRINT-SF	1	1.1	BUOY	1.4	BUOY	1.4

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SALTFLATCC20_29FEDCOM74H_CsgCriteria_20241031085842.pdf

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COMWell Number: 74H

Casing Attachments

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SALTFLATCC20_29FEDCOM74H_CsgCriteria_20241031101202.pdf

Casing ID: 3StringPRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

SALTFLATCC20_29FEDCOM74H_CsgCriteria_20241031101247.pdf

SALTFLATCC20_29FEDCOM74H_VAM_SPRINT_SF_5.5in_20ppf_P110RY_20241031101253.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	538	450	1.33	14.8	599	100	Class C	Accelerator

INTERMEDIATE	Lead	2	0	5255	814	1.71	13.3	1392	25	Class C	Accelerator
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Operator Name: OXY USA INCORPORATED**Well Name:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	2	5255	9632	588	1.68	13.2	988	5	Class C	Retarder, Dispersant

PRODUCTION	Lead		9132	1996 7	614	1.84	13.3	1130	25	Class C	Retarder
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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
0	538	WATER-BASED MUD	8.6	8.8							
538	9632	OTHER : SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
9632	1996 7	OTHER : WATER-BASED MUD OR OIL-	9.5	12.5							

Operator Name: OXY USA INCORPORATED**Well Name:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H

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
		BASED MUD									

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: 5982

Anticipated Surface Pressure: 3957

Anticipated Bottom Hole Temperature(F): 154

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

Describe:

Contingency Plans geohazards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

SALTFLATCC20_29FEDCOM74H_H2S1_20241031104905.pdf

SALTFLATCC20_29FEDCOM74H_H2S2_20241031104911.pdf

Operator Name: OXY USA INCORPORATED**Well Name:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SALTFLATCC20_29FEDCOM74H_DirectPlan_20241031104934.pdf

Other proposed operations facets description:**Other proposed operations facets attachment:**

SALTFLATCC20_29FEDCOM74H_DrillPlan_20241031104950.pdf

SALTFLATCC20_29FEDCOM74H_SpudRigData_20241031104958.pdf

SALTFLATCC20_29FEDCOM74H_NGMP_20241031105012.pdf

SALTFLATCC20_29FEDCOM74H_Blanket_Design_A_Pad_20241031105301.pdf

Other Variance request(s)?: Y**Other Variance attachment:**

SALTFLATCC20_29FEDCOM74H_BradenheadCBLVariance_20241031114957.pdf

SALTFLATCC20_29FEDCOM74H_BOPBreakTestingVariance_20241031115004.pdf

SALTFLATCC20_29FEDCOM74H_OfflineCementVariance_20241031115011.pdf



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SUPO Data Report

05/27/2025

APD ID: 10400101732

Submission Date: 11/07/2024

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

Well Type: OIL WELL

Well Work Type: Drill

Highlighted data
reflects the most
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Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

SALTFLATCC20_29FEDCOM74H_ExistingRoads_20241031115251.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:

SALTFLATCC20_29FEDCOM74H_NewRoads_20241031115529.pdf

New road type: LOCAL

Length: 6844

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: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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:

SALTFLATCC20_29FEDCOM74H_1_Mile_Existing_Well_Map_20241031115923.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 Salt Flat tank battery would be utilized and the necessary production equipment will be installed at the well site.

Production Facilities map:

SALTFLATCC20_29FEDCOM74H_Lease_Facility_20241031120811.pdf

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COMWell Number: 74H

Section 5 - Location and Types of Water Supply

Water Source Table

Water source type: GW WELL

Water source use type: SURFACE CASING
OTHERDescribe 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): 2000Source volume (acre-feet): 0.25778619

Source volume (gal): 84000

Water source and transportation

SALTFLATCC20_29FEDCOM74H_Water__Caliche_Source_Map_20241031121203.pdf
SALTFLATCC20_29FEDCOM74H_WtrSrcGRR_20241031121459.pdf
SALTFLATCC20_29FEDCOM74H_WtrSrcMesq_20241031121504.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:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H**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

SALTFLATCC20_29FEDCOM74H_Water___Caliche_Source_Map_20241031121535.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:** 1433 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:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H

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:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H

Section 9 - Well Site

Well Site Layout Diagram:

SALTFLATCC20_29FEDCOM74H_SitePlan_20241031121702.pdf

SALTFLATCC20_29FEDCOM74H_CL_20241031121708.pdf

Comments:

Section 10 - Plans for Surface

Type of disturbance: New Surface Disturbance**Multiple Well Pad Name:** CEDCAN_T24SR29E**Multiple Well Pad Number:** 1710

Recontouring

SALTFLATCC20_29FEDCOM74H_SitePlan_20241031121751.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): 7.83	Well pad interim reclamation (acres): 1.02	Well pad long term disturbance (acres): 6.8
Road proposed disturbance (acres): 4.71	Road interim reclamation (acres): 1.57	Road long term disturbance (acres): 3.14
Powerline proposed disturbance (acres): 10.52	Powerline interim reclamation (acres): 10.52	Powerline long term disturbance (acres): 0
Pipeline proposed disturbance (acres): 15.42	Pipeline interim reclamation (acres): 10.28	Pipeline long term disturbance (acres): 5.14
Other proposed disturbance (acres): 0	Other interim reclamation (acres): 0	Other long term disturbance (acres): 0
Total proposed disturbance: 38.48	Total interim reclamation: 23.39	Total long term disturbance: 15.079999999999998

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 area 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:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H**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: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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

Other surface owner description: FEE

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,OTHER

Other surface owner description: FEE

BIA Local Office:

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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: PIPELINE

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT,OTHER

Other surface owner description: FEE

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:

Operator Name: OXY USA INCORPORATED**Well Name:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H**Disturbance type:** OTHER**Describe:** ELECTRIC LINES**Surface Owner:** BUREAU OF LAND MANAGEMENT,OTHER**Other surface owner description:** FEE**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:**

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**

SALTFLATCC20_29FEDCOM74H_StakeForm_20241106085916.pdf



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

PWD Data Report

05/27/2025

APD ID: 10400101732

Submission Date: 11/07/2024

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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:

Describe 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:** SALT FLAT CC 20_29 FEDERAL COM**Well Number:** 74H**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: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

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



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

Bond Info Data

05/27/2025

APD ID: 10400101732

Submission Date: 11/07/2024

Highlighted data
reflects the most
recent changes
[Show Final Text](#)

Operator Name: OXY USA INCORPORATED

Well Name: SALT FLAT CC 20_29 FEDERAL COM

Well Number: 74H

Well Type: OIL WELL

Well Work Type: Drill

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
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		5. Lease Serial No. NMNM102914 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. SALT FLAT CC 20 29 FEDERAL COM 74H 9. API Well No. 30-015-56911
2. Name of Operator OXY USA INCORPORATED 3a. Address P.O. BOX 1002, TUPMAN, CA 93276-1002 3b. Phone No. (include area code) (661) 763-6046		10. Field and Pool, or Exploratory PIERCE CROSSING/Bone Spring 11. Sec., T. R. M. or Blk. and Survey or Area SEC 17/T24S/R29E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE / 597 FSL / 1142 FEL / LAT 32.211936 / LONG -104.001756 At proposed prod. zone SWSE / 20 FSL / 2190 FEL / LAT 32.181149 / LONG -104.005161		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 597 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 640.0		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30 feet 19. Proposed Depth 9168 feet / 19967 feet 20. BLM/BIA Bond No. in file FED: ESB000226
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 2927 feet 22. Approximate date work will start* 11/07/2025 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 (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) SARA GUTHRIE / Ph: (713) 366-5716	Date 11/07/2024
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 05/19/2025
Office 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.

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: SESE / 597 FSL / 1142 FEL / TWSP: 24S / RANGE: 29E / SECTION: 17 / LAT: 32.211936 / LONG: -104.001756 (TVD: 0 feet, MD: 0 feet)
PPP: NWSE / 2660 FNL / 2191 FEL / TWSP: 24S / RANGE: 29E / SECTION: 29 / LAT: 32.188402 / LONG: -104.005157 (TVD: 9176 feet, MD: 17326 feet)
PPP: NWNE / 0 FNL / 2191 FEL / TWSP: 24S / RANGE: 29E / SECTION: 29 / LAT: 32.195713 / LONG: -104.005154 (TVD: 9185 feet, MD: 14665 feet)
PPP: NWSE / 2657 FNL / 2204 FEL / TWSP: 24S / RANGE: 29E / SECTION: 20 / LAT: 32.203009 / LONG: -104.00515 (TVD: 9194 feet, MD: 12011 feet)
PPP: SWNE / 1328 FNL / 2197 FEL / TWSP: 24S / RANGE: 29E / SECTION: 20 / LAT: 32.20666 / LONG: -104.005148 (TVD: 9198 feet, MD: 10683 feet)
PPP: NWNE / 100 FNL / 2190 FEL / TWSP: 24S / RANGE: 29E / SECTION: 20 / LAT: 32.210036 / LONG: -104.005146 (TVD: 9202 feet, MD: 9632 feet)
BHL: SWSE / 20 FSL / 2190 FEL / TWSP: 24S / RANGE: 29E / SECTION: 29 / LAT: 32.181149 / LONG: -104.005161 (TVD: 9168 feet, MD: 19967 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	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

WELL LOCATION INFORMATION

API Number 35-015 -56911	Pool Code 50371	Pool Name PIERCE CROSSING; BONE SPRING
Property Code 321601	Property Name SALT FLAT CC 20_29 FED COM	Well Number 74H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 2927.2'
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

Surface Location

UL P	Section 17	Township 24S	Range 29E	Lot	Ft. from N/S 597 SOUTH	Ft. from E/W 1142 EAST	Latitude (NAD 83) 32.211936°	Longitude (NAD 83) -104.001756°	County EDDY
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Bottom Hole Location

UL O	Section 29	Township 24S	Range 29E	Lot	Ft. from N/S 20 SOUTH	Ft. from E/W 2190 EAST	Latitude (NAD 83) 32.181149°	Longitude (NAD 83) -104.005161°	County EDDY
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Dedicated Acres 640	Infill or Defining Well INFILL	Defining Well API 30-015-45049	Overlapping Spacing Unit (Y/N)	Consolidation Code
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

Kick Off Point (KOP)

UL O	Section 17	Township 24S	Range 29E	Lot	Ft. from N/S 300 SOUTH	Ft. from E/W 2190 EAST	Latitude (NAD 83) 32.211135°	Longitude (NAD 83) -104.005146°	County EDDY
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First Take Point (FTP)

UL B	Section 20	Township 24S	Range 29E	Lot	Ft. from N/S 100 NORTH	Ft. from E/W 2190 EAST	Latitude (NAD 83) 32.210036°	Longitude (NAD 83) -104.005146°	County EDDY
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Last Take Point (LTP)

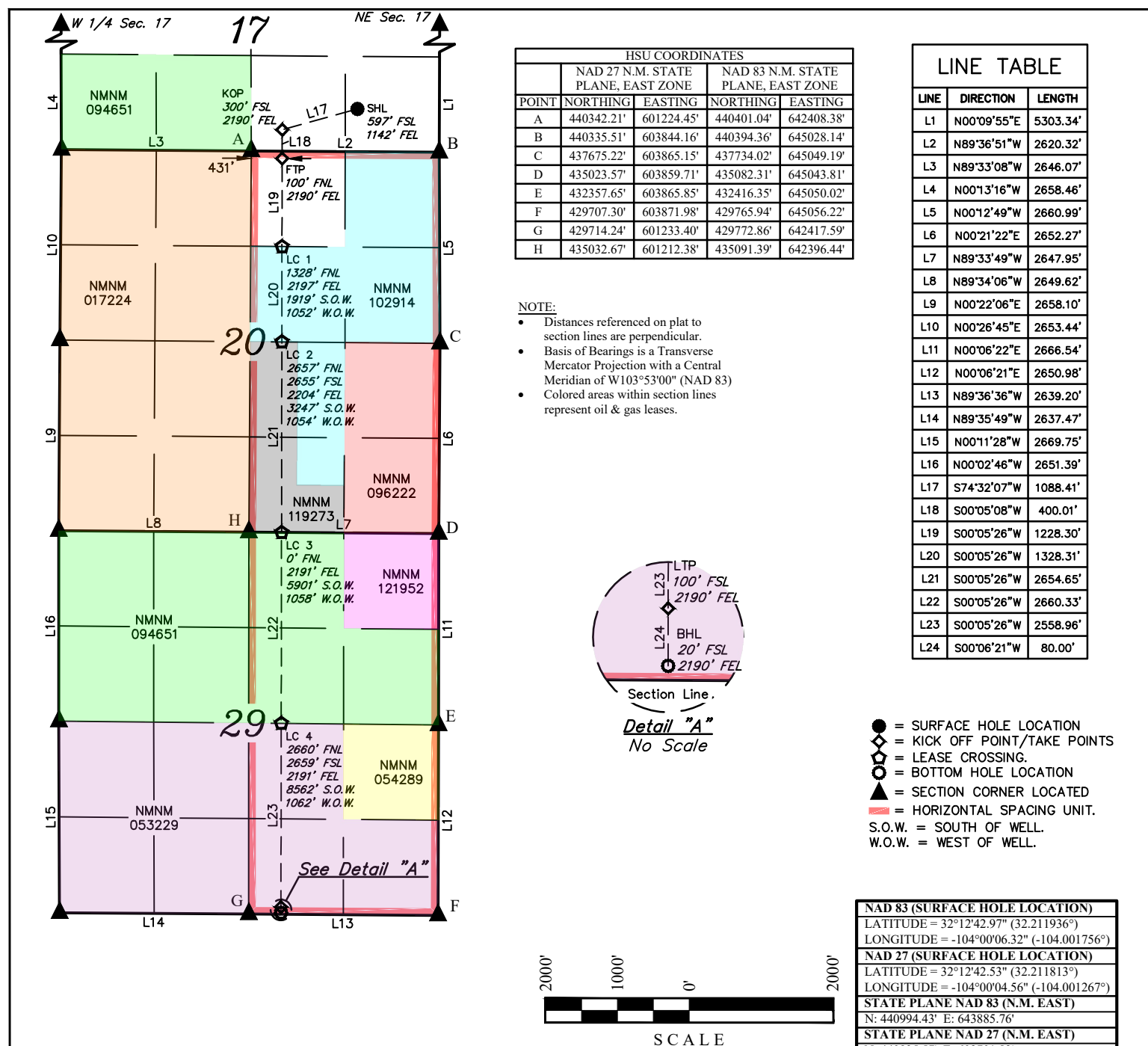
UL O	Section 29	Township 24S	Range 29E	Lot	Ft. from N/S 100 SOUTH	Ft. from E/W 2190 EAST	Latitude (NAD 83) 32.181369°	Longitude (NAD 83) -104.005161°	County EDDY
---------	---------------	-----------------	--------------	-----	---------------------------	---------------------------	---------------------------------	------------------------------------	----------------

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: 2927.2'
---	--	------------------------------------

OPERATOR CERTIFICATIONS <i>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.</i> <i>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.</i> <i>Sara Guthrie</i> 10/10/2024 Signature Date Sara Guthrie Printed Name Sara_Guthrie@oxy.com Email Address	SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from the field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  Signature and Seal of Professional Surveyor 23782 March 03, 2023 Certificate Number Date of Survey
---	---

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

Property Name SALT FLAT CC 20_29 FED COM	Well Number 74H	Drawn By N.D.T. 03-15-23	Revised By REV. 4 T.I.R. 08-06-24 (UPDATE FORMAT)
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NAD 83 (KICK OFF POINT)	
LATITUDE = 32°12'40.09" (32.211135°)	
LONGITUDE = -104°00'18.52" (-104.005146°)	
NAD 27 (KICK OFF POINT)	
LATITUDE = 32°12'39.64" (32.211012°)	
LONGITUDE = -104°00'16.76" (-104.004657°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 440699.88' E: 642838.20'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 440641.04' E: 601654.27'	

NAD 83 (FIRST TAKE POINT)	
LATITUDE = 32°12'36.13" (32.210036°)	
LONGITUDE = -104°00'18.53" (-104.005146°)	
NAD 27 (FIRST TAKE POINT)	
LATITUDE = 32°12'35.69" (32.209913°)	
LONGITUDE = -104°00'16.77" (-104.004657°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 440299.96' E: 642839.28'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 440241.13' E: 601655.34'	

NAD 83 (LEASE CROSSING 1)	
LATITUDE = 32°12'23.98" (32.206660°)	
LONGITUDE = -104°00'18.53" (-104.005148°)	
NAD 27 (LEASE CROSSING 1)	
LATITUDE = 32°12'23.53" (32.206537°)	
LONGITUDE = -104°00'16.77" (-104.004659°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 439071.93' E: 642842.48'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 439013.12' E: 601658.51'	

NAD 83 (LEASE CROSSING 2)	
LATITUDE = 32°12'10.83" (32.203009°)	
LONGITUDE = -104°00'18.54" (-104.005150°)	
NAD 27 (LEASE CROSSING 2)	
LATITUDE = 32°12'10.39" (32.202886°)	
LONGITUDE = -104°00'16.78" (-104.004661°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 437743.91' E: 642845.94'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 437685.12' E: 601661.93'	

NAD 83 (LEASE CROSSING 3)	
LATITUDE = 32°11'44.57" (32.195713°)	
LONGITUDE = -104°00'18.55" (-104.005154°)	
NAD 27 (LEASE CROSSING 3)	
LATITUDE = 32°11'44.13" (32.195590°)	
LONGITUDE = -104°00'16.79" (-104.004665°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 435089.83' E: 642852.85'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 435031.10' E: 601668.78'	

NAD 83 (LEASE CROSSING 4)	
LATITUDE = 32°11'18.25" (32.188402°)	
LONGITUDE = -104°00'18.57" (-104.005157°)	
NAD 27 (LEASE CROSSING 4)	
LATITUDE = 32°11'17.80" (32.188279°)	
LONGITUDE = -104°00'16.81" (-104.004669°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 432430.07' E: 642859.77'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 432371.39' E: 601675.64'	

NAD 83 (LAST TAKE POINT)	
LATITUDE = 32°10'52.93" (32.181369°)	
LONGITUDE = -104°00'18.58" (-104.005161°)	
NAD 27 (LAST TAKE POINT)	
LATITUDE = 32°10'52.49" (32.181246°)	
LONGITUDE = -104°00'16.82" (-104.004673°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 429871.66' E: 642866.43'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 429813.04' E: 601682.23'	

NAD 83 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°10'52.14" (32.181149°)	
LONGITUDE = -104°00'18.58" (-104.005161°)	
NAD 27 (BOTTOM HOLE LOCATION)	
LATITUDE = 32°10'51.69" (32.181026°)	
LONGITUDE = -104°00'16.82" (-104.004673°)	
STATE PLANE NAD 83 (N.M. EAST)	
N: 429791.68' E: 642866.62'	
STATE PLANE NAD 27 (N.M. EAST)	
N: 429733.06' E: 601682.42'	

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:** 1 0 / 3 0 / 2 0 2 4

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: SALT FLAT 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: <i>Sara Guthrie</i>
Printed Name: Sara Guthrie
Title: Regulatory Advisor
E-mail Address: sara_guthrie@oxy.com
Date: 10/30/2024
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
SALT FLAT CC 20_29 FED COM 71H	TBD	D-20-T24S-R29E	495 FNL & 941 FWL	4500	9000	1500
SALT FLAT CC 20_29 FED COM 73H	TBD	D-20-T24S-R29E	443 FNL & 1015 FWL	4500	9000	1500
SALT FLAT CC 20_29 FED COM 72H	TBD	D-20-T24S-R29E	460 FNL & 990 FWL	2750	6750	1800
SALT FLAT CC 20_29 FED COM 75H	TBD	P-17-T24S-R29E	597 FSL & 1112 FEL	4500	9000	1500
SALT FLAT CC 20_29 FED COM 76H	TBD	P-17-T24S-R29E	597 FSL & 1052 FEL	2750	6750	1800
SALT FLAT CC 20_29 FED COM 74H	TBD	P-17-T24S-R29E	597 FSL & 1142 FEL	2750	6750	1800
SALT FLAT CC 20_29 FED COM 77H	TBD	D-20-T24S-R29E	477 FNL & 966 FWL	4500	9000	1500
SALT FLAT CC 20_29 FED COM 78H	TBD	P-17-T24S-R29E	597 FSL & 1082 FEL	2750	6750	1800

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
SALT FLAT CC 20_29 FED COM 71H	TBD	09/14/2026	11/02/2026	11/25/2026	12/20/2026	12/26/2026
SALT FLAT CC 20_29 FED COM 73H	TBD	09/20/2026	10/23/2026	11/25/2026	12/23/2026	12/26/2026
SALT FLAT CC 20_29 FED COM 72H	TBD	09/26/2026	10/12/2026	11/25/2026	12/21/2026	12/26/2026
SALT FLAT CC 20_29 FED COM 75H	TBD	09/15/2026	11/02/2026	12/03/2026	12/22/2026	12/27/2026
SALT FLAT CC 20_29 FED COM 76H	TBD	09/21/2026	10/23/2026	12/03/2026	12/24/2026	12/27/2026
SALT FLAT CC 20_29 FED COM 74H	TBD	09/27/2026	10/13/2026	12/03/2026	12/21/2026	12/27/2026
SALT FLAT CC 20_29 FED COM 77H	TBD	09/21/2026	10/23/2026	12/03/2026	12/24/2026	12/27/2026
SALT FLAT CC 20_29 FED COM 78H	TBD	09/27/2026	10/13/2026	12/03/2026	12/21/2026	12/27/2026

Central Delivery Point Name : Salt Flat CTB

Part VI. Separation Equipment

Operator will size the flowback separator to handle 6,000 Bbls of fluid and 7-9 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

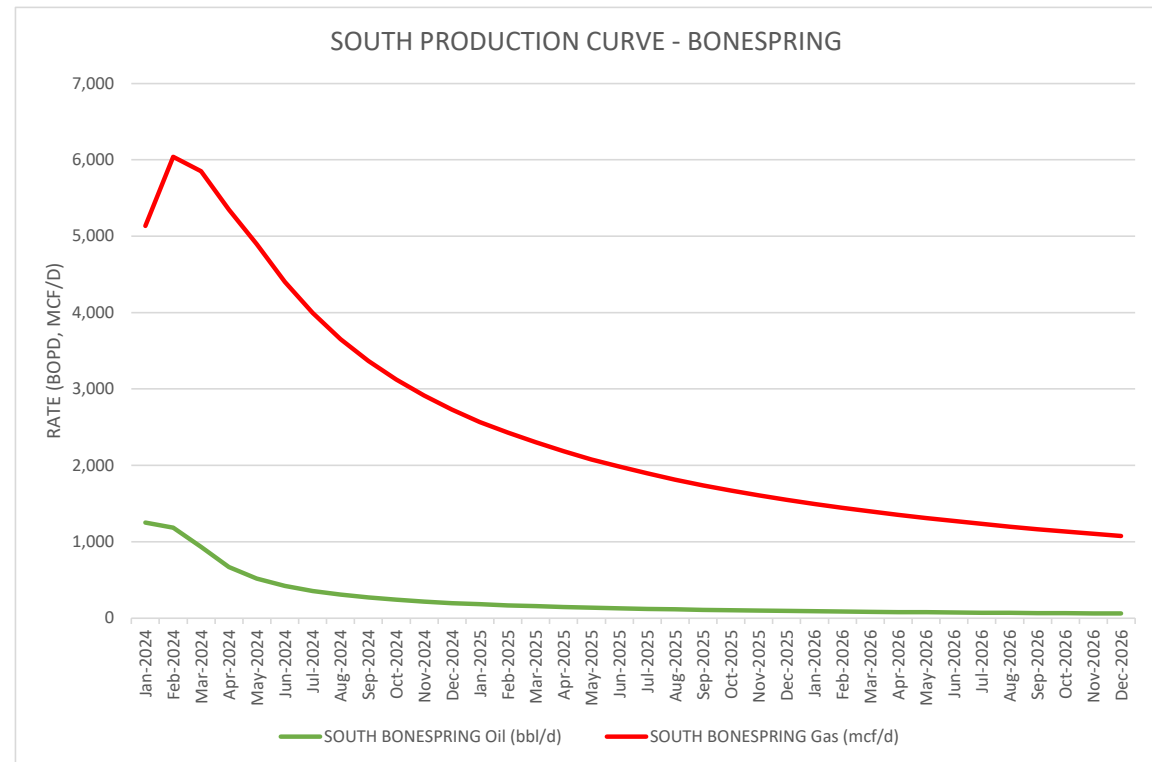
Compressed Natural Gas – On lease

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. - SALT FLAT CC 20_29 FED COM 74H

Drill Plan

1. Geologic Formations

TVD of Target (ft):	9202	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19967	Deepest Expected Fresh Water (ft):	276

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	276	276	
Salado	598	598	Salt
Castile	1247	1247	Salt
Delaware	2801	2801	Oil/Gas/Brine
Bell Canyon	2865	2865	Oil/Gas/Brine
Cherry Canyon	3734	3732	Oil/Gas/Brine
Brushy Canyon	5005	4982	Losses
Bone Spring	6629	6576	Oil/Gas
Bone Spring 1st	7594	7523	Oil/Gas
Bone Spring 2nd	8423	8337	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	14.75	0	538	0	538	10.75	45.5	J-55	BTC
Intermediate	9.875	0	9632	0	9202	7.625	26.4	L-80 HC	BTC
Production	6.75	0	19967	0	9202	5.5	20	P-110	Sprint-SF

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

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

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM’s minimum standards? 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-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500’ into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100’ to 600’ below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	450	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	588	1.68	13.2	5%	5,255	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	814	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	614	1.84	13.3	25%	9,132	Circulate	Class C+Ret.

Offline Cementing Request

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

Bradenhead CBL Request

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

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type		✓	Tested to:	Deepest TVD Depth (ft) per Section:
9.875" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9202
		5M	Blind Ram		✓	250 psi / 5000 psi	
			Pipe Ram				
			Double Ram		✓		
			Other*				
6.75" Hole	13-5/8"	5M	Annular		✓	70% of working pressure	9202
		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.
	<div>Y</div> Are anchors required by manufacturer?
	<p>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.</p> <p>See attached schematics.</p>

BOP Break Testing Request

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

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

5. Mud Program

Section	Depth - MD		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	538	0	538	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	538	9632	538	9202	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9632	19967	9202	9202	Water-Based or Oil-Based Mud	9.5 - 12.5	38-50	N/C

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

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	5982 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	154°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 4 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: 1433 bbls	

OXY USA Inc
APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

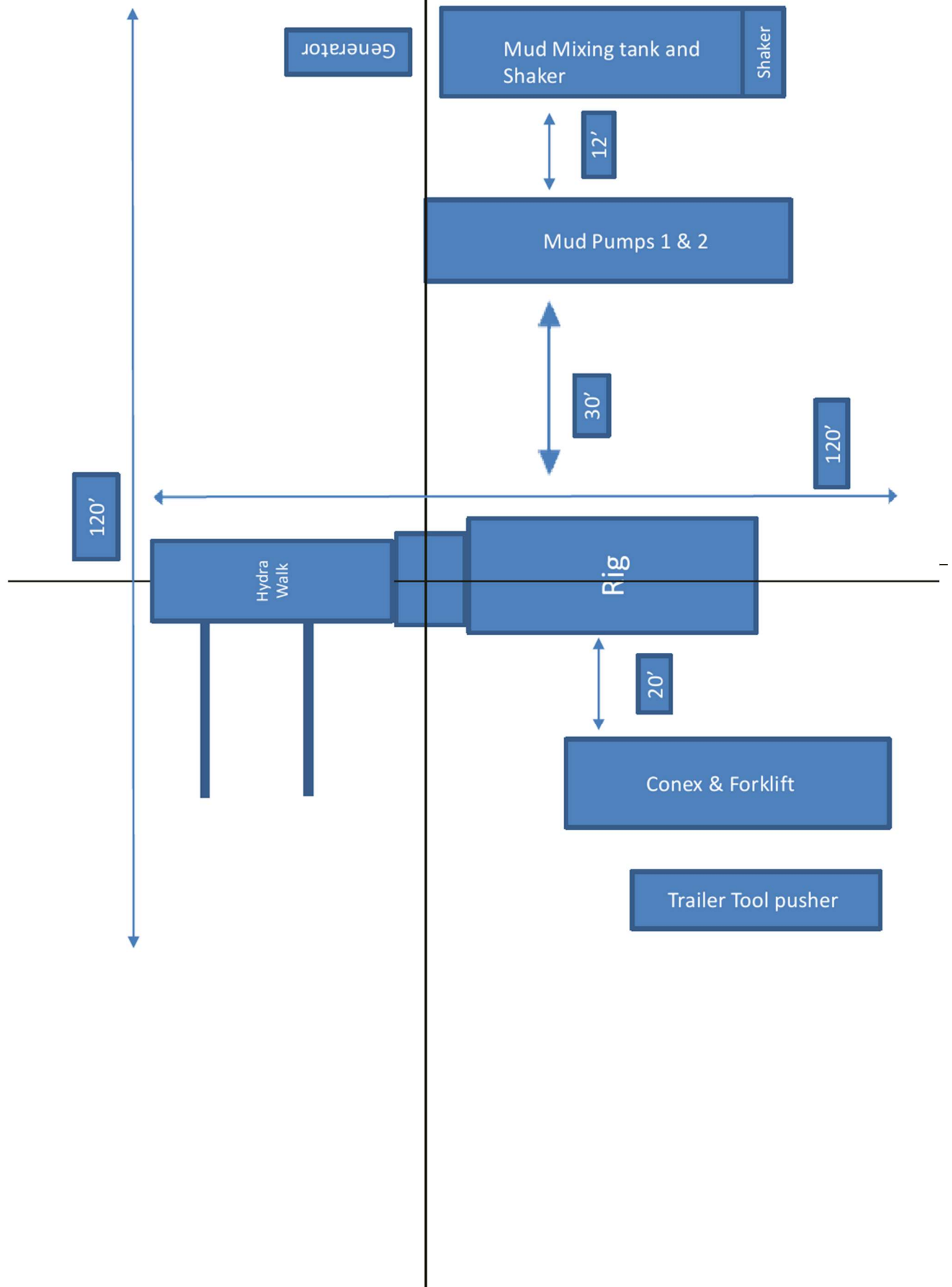
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

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

2. Description of Operations

1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
2. The wellhead will be installed and tested as soon as the surface casing is cut off and the WOC time has been reached.
3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. Spudder rig operations are expected to take 2-3 days per well on the pad.
5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
6. Drilling operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nipped 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



Oxy USA Inc. - Blanket Design Pad Document

OXY - Blanket Design A

Pad Name: CEDCAN_T24SR29E_1710

SHL: 597' FSL 1142' FEL, Sec 20, T24S-R29E

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

1. Blanket Design - Wells

Well Name	API #	Surface		Intermediate		Production	
		MD	TVD	MD	TVD	MD	TVD
SALT FLAT CC 20_29 FED COM 74H	n/a - New Permit	538	538	9632	9202	19967	9202
SALT FLAT CC 20_29 FED COM 75H	n/a - New Permit	547	547	9406	9050	19741	9050
SALT FLAT CC 20_29 FED COM 76H	n/a - New Permit	551	551	9632	9236	19995	9236
SALT FLAT CC 20_29 FED COM 78H	n/a - New Permit	548	548	9580	9224	19915	9224

2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? 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-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	287	287	
Salado	588	588	Salt
Castile	1247	1247	Salt
Delaware	2796	2796	Oil/Gas/Brine
Bell Canyon	2839	2839	Oil/Gas/Brine
Cherry Canyon	3730	3727	Oil/Gas/Brine
Brushy Canyon	4997	4971	Losses
Bone Spring	6617	6562	Oil/Gas
Bone Spring 1st	7592	7519	Oil/Gas
Bone Spring 2nd	8428	8339	Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

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 procedure.

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 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 initial break test will be tested on this break test

Notes:

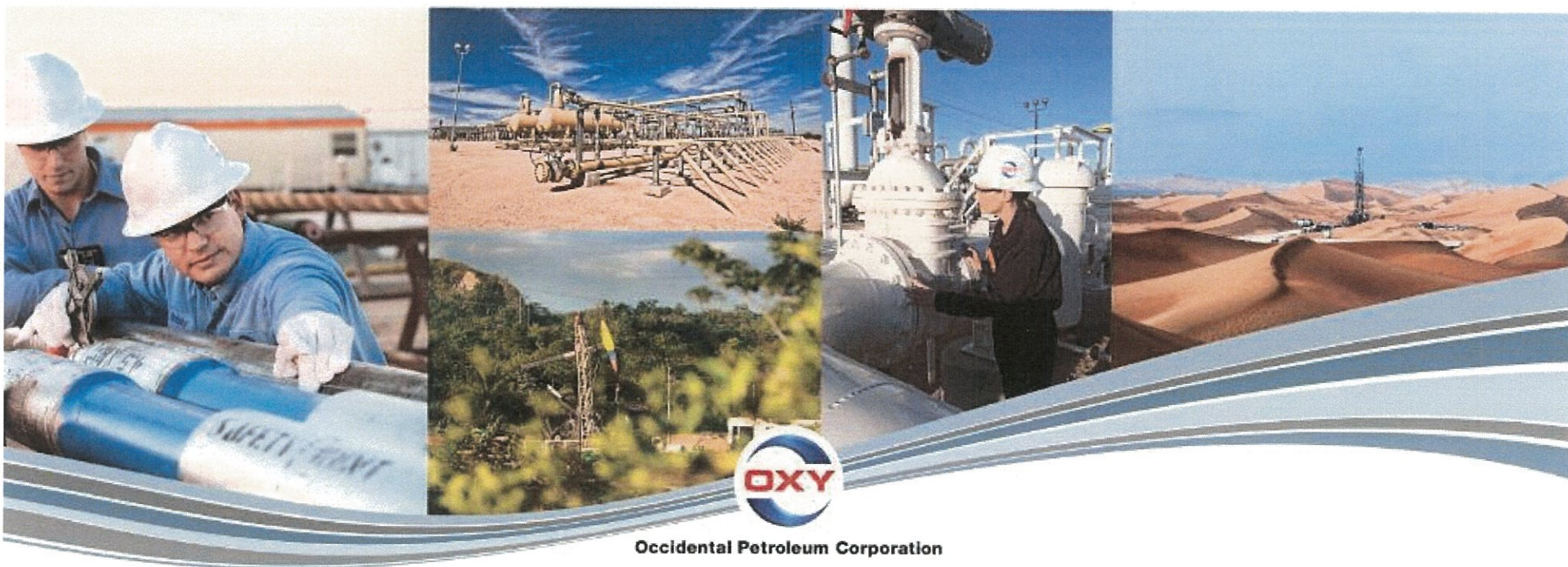
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step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

Summary

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

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Occidental Petroleum Corporation

Request for Variance

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

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

Rationale for Allowing BOP Break Testing

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

- 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.”



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.”

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

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



Break Testing Procedures

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



Break Testing Procedures and Tests

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



Break Testing Procedures and Tests

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



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



BOP Handling System



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

BOP standing in its carrier





12

BOP Handling System



Wellhead

Hydraulic winch
system moving
the BOP over to
the wellhead

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

Offline Cementing Variance Request

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

1. Cement Program

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

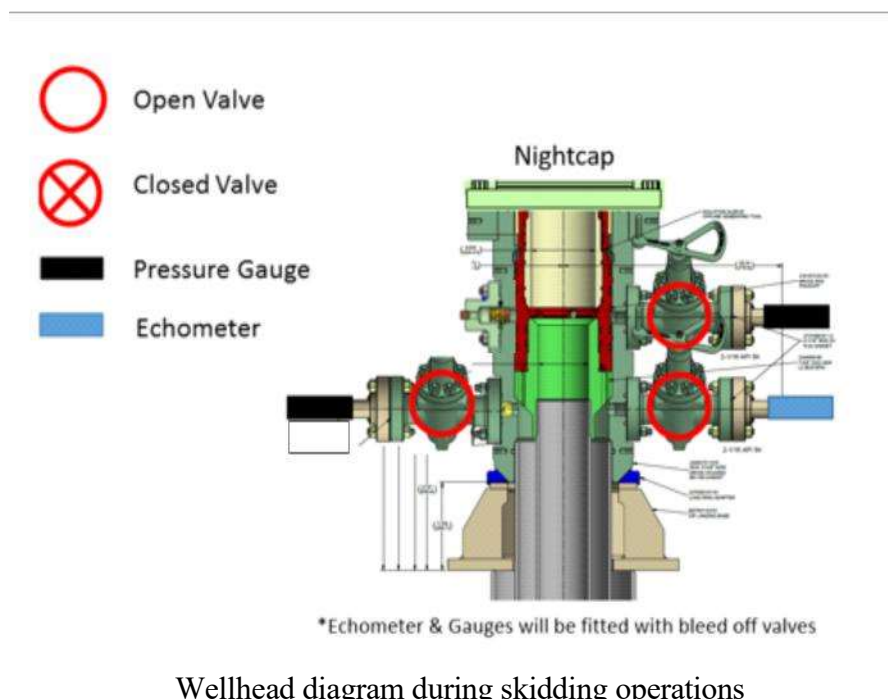
2. Offline Cementing Procedure

The operational sequence will be as follows:

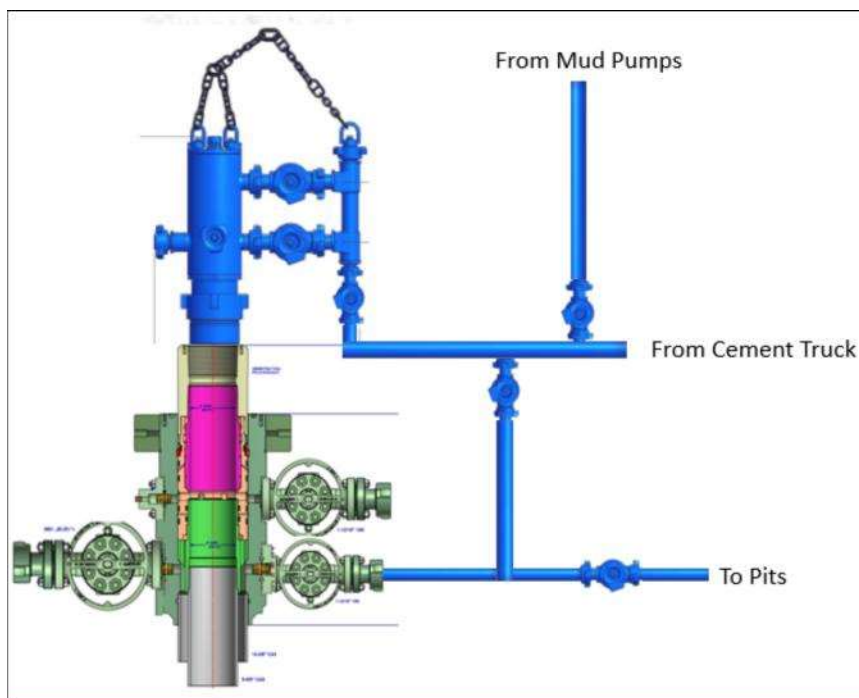
1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
2. Land casing with mandrel
3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
4. Set annular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

Annular packoff with both external and internal seals





5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nipped 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 nipping 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.

OXY

PRD NM DIRECTIONAL PLANS (NAD 1983)

Salt Flat CC 20-29 Federal Com

Salt Flat CC 20_29 Fed Com 74H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

30 July, 2024

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	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	Salt Flat CC 20-29 Federal Com		
Site Position:		Northing:	440,814.67 usft
From:	Map	Easting:	643,787.23 usft
Position Uncertainty:	44.72 ft	Slot Radius:	13.200 in
		Latitude:	32.211442
		Longitude:	-104.002076

Well	Salt Flat CC 20_29 Fed Com 74H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft	Wellhead Elevation:	
Grid Convergence:	0.18 °		
		Latitude:	32.211936
		Longitude:	-104.001756
		Ground Level:	2,927.20 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM_FILE	7/30/2024	6.50	59.77	47,339.60000000

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	185.20

Plan Survey Tool Program	Date	7/30/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,967.14	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,010.00	0.00	0.00	3,010.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,110.18	11.00	252.75	4,103.43	-31.23	-100.56	1.00	1.00	0.00	252.75	
8,762.64	11.00	252.75	8,670.38	-294.58	-948.49	0.00	0.00	0.00	0.00	
9,632.32	90.19	179.85	9,202.02	-868.75	-1,046.11	10.00	9.11	-8.38	-73.16	
19,967.32	90.19	179.85	9,167.89	-11,203.66	-1,019.22	0.00	0.00	0.00	0.00	PBHL (Salt Flat CC

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
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
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
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1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
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2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,010.00	0.00	0.00	3,010.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.90	252.75	3,100.00	-0.21	-0.68	0.27	1.00	1.00	0.00
3,200.00	1.90	252.75	3,199.97	-0.93	-3.01	1.20	1.00	1.00	0.00
3,300.00	2.90	252.75	3,299.88	-2.18	-7.01	2.80	1.00	1.00	0.00
3,400.00	3.90	252.75	3,399.70	-3.94	-12.67	5.07	1.00	1.00	0.00
3,500.00	4.90	252.75	3,499.40	-6.21	-20.00	8.00	1.00	1.00	0.00
3,600.00	5.90	252.75	3,598.96	-9.00	-28.98	11.59	1.00	1.00	0.00
3,700.00	6.90	252.75	3,698.33	-12.31	-39.63	15.85	1.00	1.00	0.00
3,800.00	7.90	252.75	3,797.50	-16.13	-51.93	20.77	1.00	1.00	0.00
3,900.00	8.90	252.75	3,896.43	-20.46	-65.88	26.35	1.00	1.00	0.00
4,000.00	9.90	252.75	3,995.08	-25.31	-81.48	32.58	1.00	1.00	0.00
4,100.00	10.90	252.75	4,093.44	-30.66	-98.72	39.48	1.00	1.00	0.00
4,110.18	11.00	252.75	4,103.43	-31.23	-100.56	40.22	1.00	1.00	0.00
4,200.00	11.00	252.75	4,191.60	-36.32	-116.93	46.76	0.00	0.00	0.00
4,300.00	11.00	252.75	4,289.76	-41.98	-135.16	54.05	0.00	0.00	0.00
4,400.00	11.00	252.75	4,387.93	-47.64	-153.38	61.34	0.00	0.00	0.00
4,500.00	11.00	252.75	4,486.09	-53.30	-171.61	68.63	0.00	0.00	0.00
4,600.00	11.00	252.75	4,584.25	-58.96	-189.84	75.91	0.00	0.00	0.00
4,700.00	11.00	252.75	4,682.41	-64.62	-208.06	83.20	0.00	0.00	0.00
4,800.00	11.00	252.75	4,780.57	-70.28	-226.29	90.49	0.00	0.00	0.00
4,900.00	11.00	252.75	4,878.74	-75.94	-244.51	97.78	0.00	0.00	0.00
5,000.00	11.00	252.75	4,976.90	-81.60	-262.74	105.07	0.00	0.00	0.00
5,100.00	11.00	252.75	5,075.06	-87.26	-280.96	112.36	0.00	0.00	0.00
5,200.00	11.00	252.75	5,173.22	-92.92	-299.19	119.64	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	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	11.00	252.75	5,271.38	-98.58	-317.41	126.93	0.00	0.00	0.00
5,400.00	11.00	252.75	5,369.55	-104.24	-335.64	134.22	0.00	0.00	0.00
5,500.00	11.00	252.75	5,467.71	-109.90	-353.86	141.51	0.00	0.00	0.00
5,600.00	11.00	252.75	5,565.87	-115.56	-372.09	148.80	0.00	0.00	0.00
5,700.00	11.00	252.75	5,664.03	-121.22	-390.31	156.08	0.00	0.00	0.00
5,800.00	11.00	252.75	5,762.19	-126.88	-408.54	163.37	0.00	0.00	0.00
5,900.00	11.00	252.75	5,860.36	-132.54	-426.76	170.66	0.00	0.00	0.00
6,000.00	11.00	252.75	5,958.52	-138.20	-444.99	177.95	0.00	0.00	0.00
6,100.00	11.00	252.75	6,056.68	-143.86	-463.21	185.24	0.00	0.00	0.00
6,200.00	11.00	252.75	6,154.84	-149.52	-481.44	192.53	0.00	0.00	0.00
6,300.00	11.00	252.75	6,253.01	-155.18	-499.66	199.81	0.00	0.00	0.00
6,400.00	11.00	252.75	6,351.17	-160.84	-517.89	207.10	0.00	0.00	0.00
6,500.00	11.00	252.75	6,449.33	-166.50	-536.12	214.39	0.00	0.00	0.00
6,600.00	11.00	252.75	6,547.49	-172.16	-554.34	221.68	0.00	0.00	0.00
6,700.00	11.00	252.75	6,645.65	-177.83	-572.57	228.97	0.00	0.00	0.00
6,800.00	11.00	252.75	6,743.82	-183.49	-590.79	236.26	0.00	0.00	0.00
6,900.00	11.00	252.75	6,841.98	-189.15	-609.02	243.54	0.00	0.00	0.00
7,000.00	11.00	252.75	6,940.14	-194.81	-627.24	250.83	0.00	0.00	0.00
7,100.00	11.00	252.75	7,038.30	-200.47	-645.47	258.12	0.00	0.00	0.00
7,200.00	11.00	252.75	7,136.46	-206.13	-663.69	265.41	0.00	0.00	0.00
7,300.00	11.00	252.75	7,234.63	-211.79	-681.92	272.70	0.00	0.00	0.00
7,400.00	11.00	252.75	7,332.79	-217.45	-700.14	279.98	0.00	0.00	0.00
7,500.00	11.00	252.75	7,430.95	-223.11	-718.37	287.27	0.00	0.00	0.00
7,600.00	11.00	252.75	7,529.11	-228.77	-736.59	294.56	0.00	0.00	0.00
7,700.00	11.00	252.75	7,627.28	-234.43	-754.82	301.85	0.00	0.00	0.00
7,800.00	11.00	252.75	7,725.44	-240.09	-773.04	309.14	0.00	0.00	0.00
7,900.00	11.00	252.75	7,823.60	-245.75	-791.27	316.43	0.00	0.00	0.00
8,000.00	11.00	252.75	7,921.76	-251.41	-809.49	323.71	0.00	0.00	0.00
8,100.00	11.00	252.75	8,019.92	-257.07	-827.72	331.00	0.00	0.00	0.00
8,200.00	11.00	252.75	8,118.09	-262.73	-845.94	338.29	0.00	0.00	0.00
8,300.00	11.00	252.75	8,216.25	-268.39	-864.17	345.58	0.00	0.00	0.00
8,400.00	11.00	252.75	8,314.41	-274.05	-882.39	352.87	0.00	0.00	0.00
8,500.00	11.00	252.75	8,412.57	-279.71	-900.62	360.16	0.00	0.00	0.00
8,600.00	11.00	252.75	8,510.73	-285.37	-918.85	367.44	0.00	0.00	0.00
8,700.00	11.00	252.75	8,608.90	-291.03	-937.07	374.73	0.00	0.00	0.00
8,762.64	11.00	252.75	8,670.38	-294.58	-948.49	379.30	0.00	0.00	0.00
8,800.00	12.60	236.13	8,706.97	-297.91	-955.28	383.23	10.00	4.27	-44.48
8,900.00	19.88	210.80	8,803.03	-318.64	-973.08	405.49	10.00	7.28	-25.32
9,000.00	28.80	199.64	8,894.09	-356.02	-989.93	444.24	10.00	8.92	-11.17
9,100.00	38.22	193.53	8,977.40	-408.92	-1,005.30	498.31	10.00	9.43	-6.11
9,200.00	47.85	189.57	9,050.42	-475.72	-1,018.73	566.06	10.00	9.63	-3.96
9,300.00	57.59	186.66	9,110.93	-554.40	-1,029.81	645.42	10.00	9.73	-2.90
9,400.00	67.37	184.33	9,157.09	-642.57	-1,038.21	733.99	10.00	9.78	-2.33
9,500.00	77.18	182.31	9,187.49	-737.54	-1,043.67	829.07	10.00	9.81	-2.02
9,600.00	87.01	180.44	9,201.23	-836.44	-1,046.03	927.77	10.00	9.83	-1.87
9,632.32	90.19	179.85	9,202.02	-868.75	-1,046.11	959.95	10.00	9.83	-1.83
9,700.00	90.19	179.85	9,201.79	-936.43	-1,045.94	1,027.33	0.00	0.00	0.00
9,800.00	90.19	179.85	9,201.46	-1,036.43	-1,045.68	1,126.90	0.00	0.00	0.00
9,900.00	90.19	179.85	9,201.13	-1,136.42	-1,045.41	1,226.46	0.00	0.00	0.00
10,000.00	90.19	179.85	9,200.80	-1,236.42	-1,045.15	1,326.03	0.00	0.00	0.00
10,100.00	90.19	179.85	9,200.47	-1,336.42	-1,044.89	1,425.59	0.00	0.00	0.00
10,200.00	90.19	179.85	9,200.14	-1,436.42	-1,044.63	1,525.16	0.00	0.00	0.00
10,300.00	90.19	179.85	9,199.81	-1,536.42	-1,044.37	1,624.72	0.00	0.00	0.00
10,400.00	90.19	179.85	9,199.48	-1,636.42	-1,044.11	1,724.28	0.00	0.00	0.00
10,500.00	90.19	179.85	9,199.15	-1,736.42	-1,043.85	1,823.85	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	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	90.19	179.85	9,198.82	-1,836.42	-1,043.59	1,923.41	0.00	0.00	0.00
10,700.00	90.19	179.85	9,198.49	-1,936.42	-1,043.33	2,022.98	0.00	0.00	0.00
10,800.00	90.19	179.85	9,198.16	-2,036.42	-1,043.07	2,122.54	0.00	0.00	0.00
10,900.00	90.19	179.85	9,197.83	-2,136.42	-1,042.81	2,222.11	0.00	0.00	0.00
11,000.00	90.19	179.85	9,197.50	-2,236.41	-1,042.55	2,321.67	0.00	0.00	0.00
11,100.00	90.19	179.85	9,197.17	-2,336.41	-1,042.29	2,421.24	0.00	0.00	0.00
11,200.00	90.19	179.85	9,196.84	-2,436.41	-1,042.03	2,520.80	0.00	0.00	0.00
11,300.00	90.19	179.85	9,196.51	-2,536.41	-1,041.77	2,620.36	0.00	0.00	0.00
11,400.00	90.19	179.85	9,196.18	-2,636.41	-1,041.51	2,719.93	0.00	0.00	0.00
11,500.00	90.19	179.85	9,195.85	-2,736.41	-1,041.25	2,819.49	0.00	0.00	0.00
11,600.00	90.19	179.85	9,195.52	-2,836.41	-1,040.99	2,919.06	0.00	0.00	0.00
11,700.00	90.19	179.85	9,195.19	-2,936.41	-1,040.73	3,018.62	0.00	0.00	0.00
11,800.00	90.19	179.85	9,194.86	-3,036.41	-1,040.47	3,118.19	0.00	0.00	0.00
11,900.00	90.19	179.85	9,194.53	-3,136.41	-1,040.21	3,217.75	0.00	0.00	0.00
12,000.00	90.19	179.85	9,194.20	-3,236.41	-1,039.95	3,317.31	0.00	0.00	0.00
12,100.00	90.19	179.85	9,193.87	-3,336.40	-1,039.69	3,416.88	0.00	0.00	0.00
12,200.00	90.19	179.85	9,193.54	-3,436.40	-1,039.43	3,516.44	0.00	0.00	0.00
12,300.00	90.19	179.85	9,193.21	-3,536.40	-1,039.17	3,616.01	0.00	0.00	0.00
12,400.00	90.19	179.85	9,192.88	-3,636.40	-1,038.91	3,715.57	0.00	0.00	0.00
12,500.00	90.19	179.85	9,192.55	-3,736.40	-1,038.65	3,815.14	0.00	0.00	0.00
12,600.00	90.19	179.85	9,192.22	-3,836.40	-1,038.39	3,914.70	0.00	0.00	0.00
12,700.00	90.19	179.85	9,191.89	-3,936.40	-1,038.13	4,014.26	0.00	0.00	0.00
12,800.00	90.19	179.85	9,191.56	-4,036.40	-1,037.87	4,113.83	0.00	0.00	0.00
12,900.00	90.19	179.85	9,191.23	-4,136.40	-1,037.61	4,213.39	0.00	0.00	0.00
13,000.00	90.19	179.85	9,190.90	-4,236.40	-1,037.35	4,312.96	0.00	0.00	0.00
13,100.00	90.19	179.85	9,190.57	-4,336.40	-1,037.09	4,412.52	0.00	0.00	0.00
13,200.00	90.19	179.85	9,190.24	-4,436.40	-1,036.83	4,512.09	0.00	0.00	0.00
13,300.00	90.19	179.85	9,189.91	-4,536.39	-1,036.57	4,611.65	0.00	0.00	0.00
13,400.00	90.19	179.85	9,189.58	-4,636.39	-1,036.31	4,711.21	0.00	0.00	0.00
13,500.00	90.19	179.85	9,189.25	-4,736.39	-1,036.05	4,810.78	0.00	0.00	0.00
13,600.00	90.19	179.85	9,188.92	-4,836.39	-1,035.79	4,910.34	0.00	0.00	0.00
13,700.00	90.19	179.85	9,188.59	-4,936.39	-1,035.53	5,009.91	0.00	0.00	0.00
13,800.00	90.19	179.85	9,188.26	-5,036.39	-1,035.27	5,109.47	0.00	0.00	0.00
13,900.00	90.19	179.85	9,187.93	-5,136.39	-1,035.01	5,209.04	0.00	0.00	0.00
14,000.00	90.19	179.85	9,187.60	-5,236.39	-1,034.75	5,308.60	0.00	0.00	0.00
14,100.00	90.19	179.85	9,187.27	-5,336.39	-1,034.49	5,408.16	0.00	0.00	0.00
14,200.00	90.19	179.85	9,186.94	-5,436.39	-1,034.23	5,507.73	0.00	0.00	0.00
14,300.00	90.19	179.85	9,186.61	-5,536.39	-1,033.97	5,607.29	0.00	0.00	0.00
14,400.00	90.19	179.85	9,186.28	-5,636.38	-1,033.71	5,706.86	0.00	0.00	0.00
14,500.00	90.19	179.85	9,185.95	-5,736.38	-1,033.45	5,806.42	0.00	0.00	0.00
14,600.00	90.19	179.85	9,185.62	-5,836.38	-1,033.19	5,905.99	0.00	0.00	0.00
14,700.00	90.19	179.85	9,185.28	-5,936.38	-1,032.93	6,005.55	0.00	0.00	0.00
14,800.00	90.19	179.85	9,184.95	-6,036.38	-1,032.67	6,105.11	0.00	0.00	0.00
14,900.00	90.19	179.85	9,184.62	-6,136.38	-1,032.41	6,204.68	0.00	0.00	0.00
15,000.00	90.19	179.85	9,184.29	-6,236.38	-1,032.15	6,304.24	0.00	0.00	0.00
15,100.00	90.19	179.85	9,183.96	-6,336.38	-1,031.89	6,403.81	0.00	0.00	0.00
15,200.00	90.19	179.85	9,183.63	-6,436.38	-1,031.63	6,503.37	0.00	0.00	0.00
15,300.00	90.19	179.85	9,183.30	-6,536.38	-1,031.37	6,602.94	0.00	0.00	0.00
15,400.00	90.19	179.85	9,182.97	-6,636.38	-1,031.11	6,702.50	0.00	0.00	0.00
15,500.00	90.19	179.85	9,182.64	-6,736.37	-1,030.85	6,802.06	0.00	0.00	0.00
15,600.00	90.19	179.85	9,182.31	-6,836.37	-1,030.59	6,901.63	0.00	0.00	0.00
15,700.00	90.19	179.85	9,181.98	-6,936.37	-1,030.32	7,001.19	0.00	0.00	0.00
15,800.00	90.19	179.85	9,181.65	-7,036.37	-1,030.06	7,100.76	0.00	0.00	0.00
15,900.00	90.19	179.85	9,181.32	-7,136.37	-1,029.80	7,200.32	0.00	0.00	0.00
16,000.00	90.19	179.85	9,180.99	-7,236.37	-1,029.54	7,299.89	0.00	0.00	0.00

OXY

Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	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	90.19	179.85	9,180.66	-7,336.37	-1,029.28	7,399.45	0.00	0.00	0.00
16,200.00	90.19	179.85	9,180.33	-7,436.37	-1,029.02	7,499.01	0.00	0.00	0.00
16,300.00	90.19	179.85	9,180.00	-7,536.37	-1,028.76	7,598.58	0.00	0.00	0.00
16,400.00	90.19	179.85	9,179.67	-7,636.37	-1,028.50	7,698.14	0.00	0.00	0.00
16,500.00	90.19	179.85	9,179.34	-7,736.37	-1,028.24	7,797.71	0.00	0.00	0.00
16,600.00	90.19	179.85	9,179.01	-7,836.37	-1,027.98	7,897.27	0.00	0.00	0.00
16,700.00	90.19	179.85	9,178.68	-7,936.36	-1,027.72	7,996.84	0.00	0.00	0.00
16,800.00	90.19	179.85	9,178.35	-8,036.36	-1,027.46	8,096.40	0.00	0.00	0.00
16,900.00	90.19	179.85	9,178.02	-8,136.36	-1,027.20	8,195.96	0.00	0.00	0.00
17,000.00	90.19	179.85	9,177.69	-8,236.36	-1,026.94	8,295.53	0.00	0.00	0.00
17,100.00	90.19	179.85	9,177.36	-8,336.36	-1,026.68	8,395.09	0.00	0.00	0.00
17,200.00	90.19	179.85	9,177.03	-8,436.36	-1,026.42	8,494.66	0.00	0.00	0.00
17,300.00	90.19	179.85	9,176.70	-8,536.36	-1,026.16	8,594.22	0.00	0.00	0.00
17,400.00	90.19	179.85	9,176.37	-8,636.36	-1,025.90	8,693.79	0.00	0.00	0.00
17,500.00	90.19	179.85	9,176.04	-8,736.36	-1,025.64	8,793.35	0.00	0.00	0.00
17,600.00	90.19	179.85	9,175.71	-8,836.36	-1,025.38	8,892.91	0.00	0.00	0.00
17,700.00	90.19	179.85	9,175.38	-8,936.36	-1,025.12	8,992.48	0.00	0.00	0.00
17,800.00	90.19	179.85	9,175.05	-9,036.35	-1,024.86	9,092.04	0.00	0.00	0.00
17,900.00	90.19	179.85	9,174.72	-9,136.35	-1,024.60	9,191.61	0.00	0.00	0.00
18,000.00	90.19	179.85	9,174.39	-9,236.35	-1,024.34	9,291.17	0.00	0.00	0.00
18,100.00	90.19	179.85	9,174.06	-9,336.35	-1,024.08	9,390.74	0.00	0.00	0.00
18,200.00	90.19	179.85	9,173.73	-9,436.35	-1,023.82	9,490.30	0.00	0.00	0.00
18,300.00	90.19	179.85	9,173.40	-9,536.35	-1,023.56	9,589.86	0.00	0.00	0.00
18,400.00	90.19	179.85	9,173.07	-9,636.35	-1,023.30	9,689.43	0.00	0.00	0.00
18,500.00	90.19	179.85	9,172.74	-9,736.35	-1,023.04	9,788.99	0.00	0.00	0.00
18,600.00	90.19	179.85	9,172.41	-9,836.35	-1,022.78	9,888.56	0.00	0.00	0.00
18,700.00	90.19	179.85	9,172.08	-9,936.35	-1,022.52	9,988.12	0.00	0.00	0.00
18,800.00	90.19	179.85	9,171.75	-10,036.35	-1,022.26	10,087.69	0.00	0.00	0.00
18,900.00	90.19	179.85	9,171.42	-10,136.34	-1,022.00	10,187.25	0.00	0.00	0.00
19,000.00	90.19	179.85	9,171.09	-10,236.34	-1,021.74	10,286.82	0.00	0.00	0.00
19,100.00	90.19	179.85	9,170.76	-10,336.34	-1,021.48	10,386.38	0.00	0.00	0.00
19,200.00	90.19	179.85	9,170.43	-10,436.34	-1,021.22	10,485.94	0.00	0.00	0.00
19,300.00	90.19	179.85	9,170.10	-10,536.34	-1,020.96	10,585.51	0.00	0.00	0.00
19,400.00	90.19	179.85	9,169.77	-10,636.34	-1,020.70	10,685.07	0.00	0.00	0.00
19,500.00	90.19	179.85	9,169.44	-10,736.34	-1,020.44	10,784.64	0.00	0.00	0.00
19,600.00	90.19	179.85	9,169.11	-10,836.34	-1,020.18	10,884.20	0.00	0.00	0.00
19,700.00	90.19	179.85	9,168.78	-10,936.34	-1,019.92	10,983.77	0.00	0.00	0.00
19,800.00	90.19	179.85	9,168.45	-11,036.34	-1,019.66	11,083.33	0.00	0.00	0.00
19,900.00	90.19	179.85	9,168.12	-11,136.34	-1,019.40	11,182.89	0.00	0.00	0.00
19,967.32	90.19	179.85	9,167.89	-11,203.66	-1,019.22	11,249.92	0.00	0.00	0.00

OXY
Planning Report

Database:	HOPSPP	Local Co-ordinate Reference:	Well Salt Flat CC 20_29 Fed Com 74H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=25' @ 2952.20ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=25' @ 2952.20ft
Site:	Salt Flat CC 20-29 Federal Com	North Reference:	Grid
Well:	Salt Flat CC 20_29 Fed Com 74H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
KOP (Salt Flat CC	0.00	0.00	0.00	-294.57	-1,047.64	440,699.88	642,838.20	32.211135	-104.005146
- plan misses target center by 1088.27ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL (Salt Flat CC	0.00	0.00	9,167.89	-11,203.66	-1,019.22	429,791.68	642,866.62	32.181149	-104.005162
- plan hits target center									
- Point									
FTP (Salt Flat CC	0.00	0.00	9,202.59	-694.53	-1,046.56	440,299.96	642,839.28	32.210036	-104.005146
- plan misses target center by 25.91ft at 9463.80ft MD (9178.37 TVD, -702.56 N, -1042.05 E)									
- Point									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
276.20	276.20	RUSTLER			
598.20	598.20	SALADO			
1,247.20	1,247.20	CASTILE			
2,801.20	2,801.20	DELAWARE			
2,865.20	2,865.20	BELL CANYON			
3,734.13	3,732.20	CHERRY CANYON			
5,005.40	4,982.20	BRUSHY CANYON			
6,629.25	6,576.20	BONE SPRING			
7,593.98	7,523.20	BONE SPRING 1ST			
8,423.22	8,337.20	BONE SPRING 2ND			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,010.00	3,010.00	0.00	0.00	Build 1°/100'
4,110.18	4,103.43	-31.23	-100.56	Hold 11° Tangent
8,762.64	8,670.38	-294.58	-948.49	KOP, Build & Turn 10°/100'
9,632.32	9,202.02	-868.75	-1,046.11	Landing Point
19,967.32	9,167.89	-11,203.66	-1,019.22	TD at 19967.32' MD

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	OXY USA INCORPORATED
WELL NAME & NO.:	SALT FLAT 20 29 FEDERAL COM 74H
LOCATION:	Section 17, T.24 S., R.29 E.
COUNTY:	Eddy County, New Mexico

COA

H2S	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Potash	<input checked="" type="radio"/> None	<input type="radio"/> Secretary	<input type="radio"/> R-111-P
Cave/Karst Potential	<input type="radio"/> Low	<input type="radio"/> Medium	<input checked="" type="radio"/> High
Cave/Karst Potential	<input type="radio"/> Critical		
Variance	<input type="radio"/> None	<input checked="" type="radio"/> Flex Hose	<input type="radio"/> Other
Wellhead	<input type="radio"/> Conventional	<input checked="" type="radio"/> Multibowl	<input type="radio"/> Both
Wellhead Variance	<input type="radio"/> Diverter		
Other	<input type="checkbox"/> 4 String	<input type="checkbox"/> Capitan Reef	<input type="checkbox"/> WIPP
Other	<input type="checkbox"/> Fluid Filled	<input type="checkbox"/> Pilot Hole	<input type="checkbox"/> Open Annulus
Cementing	<input type="checkbox"/> Contingency Cement Squeeze	<input type="checkbox"/> EchoMeter	<input checked="" type="checkbox"/> Primary Cement Squeeze
Special Requirements	<input type="checkbox"/> Water Disposal	<input checked="" type="checkbox"/> COM	<input type="checkbox"/> Unit
Special Requirements	<input type="checkbox"/> Batch Sundry		
Special Requirements Variance	<input checked="" type="checkbox"/> Break Testing	<input checked="" type="checkbox"/> Offline Cementing	<input type="checkbox"/> Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

NOTE: WELL APPROVED FOR DESIGNS A1 AND A2. REVIEW CEMENT VOLUMES TO ACHIEVE TIE BACKS LISTED BELOW. HIGH CAVE KARST. PLEASE HAVE CONTINGENCY PLANS FOR SEVERE LOSSES. CONTACT BLM IF CEMENT TO SURFACE IS NOT ACHIEVED FOR FIRST TWO INTERVALS.

A1:

1. The **10-3/4** inch surface casing shall be set at approximately **500** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *BLM Geology: BLM suggests to set the surface casing at a depth of 500' in the Rustler formation.*
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The **7-5/8** inch intermediate casing shall be set at approximately **9632** feet. **KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

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 will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- ❖ In Secretary Potash Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. 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.

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.

Bradenhead squeeze in the production interval is only as an edge case remediation measure and is NOT approved in this COA. If production cement job experiences losses and a bradenhead squeeze is needed for tie-back, BLM Engineering should be notified prior to job with volumes and planned wellbore schematic. CBL will be needed when this occurs.

3. The 5-1/2 inch production casing shall be set at approximately 19,967 feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

A2:

1. The 13-3/8 inch surface casing shall be set at approximately **500 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. *BLM Geology: BLM suggests to set the surface casing at a depth of 500' in the Rustler formation.*
 - e. 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.
 - f. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - g. 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.
 - h. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The 7-5/8 inch intermediate casing shall be set at approximately **9632** feet. **KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2 (Bradenhead):

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.

- c. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon**
 - d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
3. The 5-1/2 inch production casing shall be set at approximately **19,967** feet. The minimum required fill of cement behind the 5-1/2 inch production casing is:

Option 1 (Single Stage):

- Cement should tie-back at least **500 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Offline cementing OK for surface and intermediate intervals. Notify 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 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](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

Contact Lea County Petroleum Engineering Inspection Staff:

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - 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 1/26/2025



Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

1. Escape

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





Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

Scope

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

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

Objective

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

Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
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
- Mud engineer:
- 1. Will remain in briefing / muster area until instructed by supervisor.
- 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 is 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

Percent (%)	Ppm	Concentration Grains 100 std. Ft3*	Physical effects
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

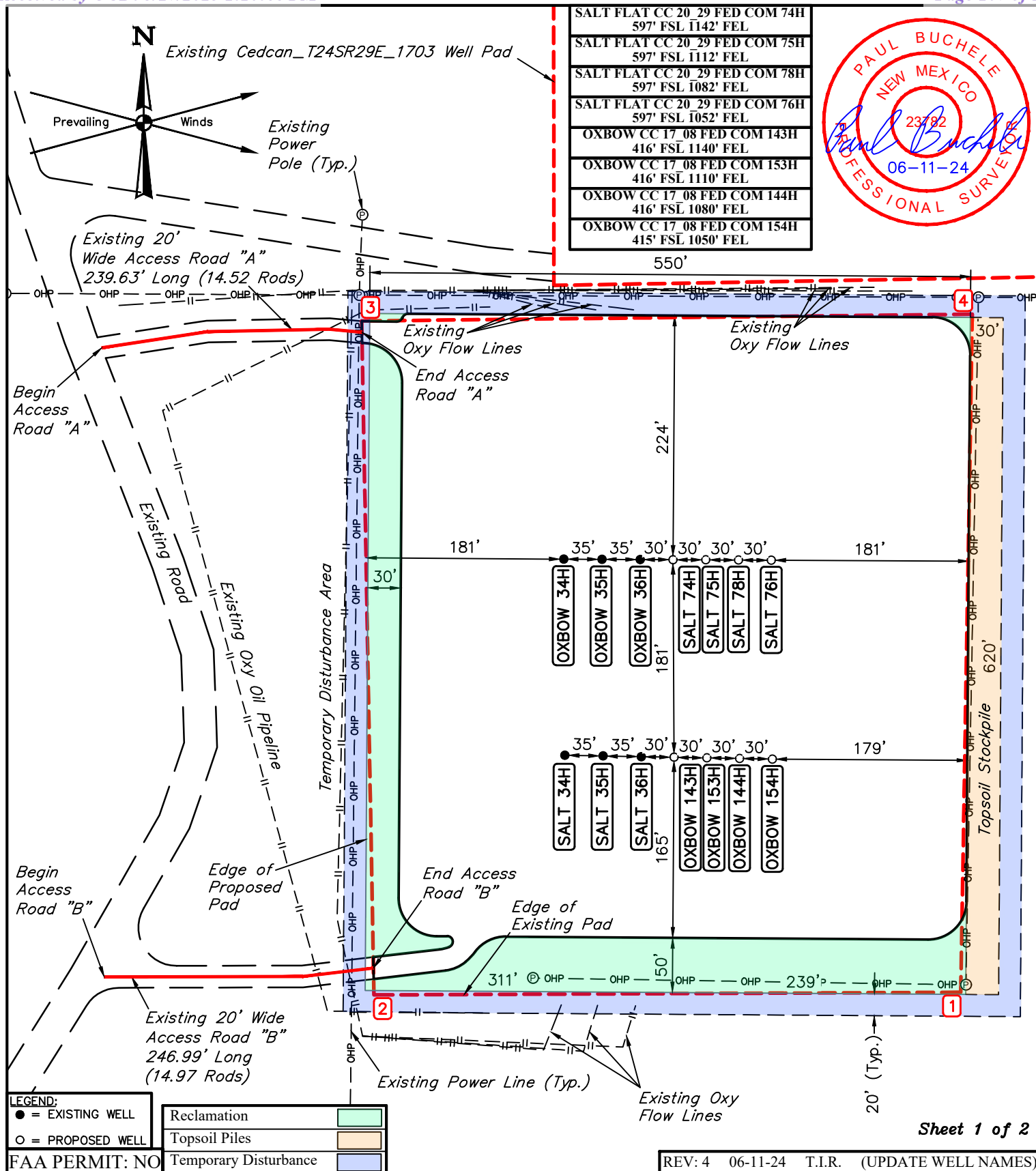
Do not panic!

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



Sheet 1 of 2

NOTES:

- Underground utilities shown on this sheet are for visualization purposes only, actual locations to be determined prior to construction.
- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Reclamation based on original proposed pad dimensions.
- Distances referenced on plat to section lines and lease lines are perpendicular.

OXY USA INC.

CEDCAN_T24SR29E_1710
SE 1/4 SE 1/4, SECTION 17, T24S, R29E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.T.	03-03-23	SCALE
DRAWN BY	D.J.S.	03-31-23	1" = 120'
SITE PLAN			



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



SALT 74H - EL: 2927.2'
NAD 83
LATITUDE = 32°12'42.97" (32.211936°)
LONGITUDE = -104°00'06.32" (-104.001756°)
NAD 27
LATITUDE = 32°12'42.53" (32.211813°)
LONGITUDE = -104°00'04.56" (-104.001267°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440994.43' E: 643885.76'
STATE PLANE NAD 27 (N.M. EAST)
N: 440935.57' E: 602701.82'

SALT 75H - EL: 2927.0'
NAD 83
LATITUDE = 32°12'42.97" (32.211935°)
LONGITUDE = -104°00'05.97" (-104.001659°)
NAD 27
LATITUDE = 32°12'42.53" (32.211813°)
LONGITUDE = -104°00'04.21" (-104.001170°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440994.39' E: 643915.76'
STATE PLANE NAD 27 (N.M. EAST)
N: 440935.53' E: 602731.81'

SALT 78H - EL: 2927.0'
NAD 83
LATITUDE = 32°12'42.97" (32.211935°)
LONGITUDE = -104°00'05.62" (-104.001562°)
NAD 27
LATITUDE = 32°12'42.52" (32.211812°)
LONGITUDE = -104°00'03.86" (-104.001073°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440994.36' E: 643945.75'
STATE PLANE NAD 27 (N.M. EAST)
N: 440935.49' E: 602761.80'

SALT 76H - EL: 2927.0'
NAD 83
LATITUDE = 32°12'42.96" (32.211935°)
LONGITUDE = -104°00'05.27" (-104.001465°)
NAD 27
LATITUDE = 32°12'42.52" (32.211812°)
LONGITUDE = -104°00'03.51" (-104.000976°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440994.32' E: 643975.74'
STATE PLANE NAD 27 (N.M. EAST)
N: 440935.46' E: 602791.79'

OXBOW 143H - EL: 2927.4'
NAD 83
LATITUDE = 32°12'41.18" (32.211438°)
LONGITUDE = -104°00'06.31" (-104.001752°)
NAD 27
LATITUDE = 32°12'40.74" (32.211316°)
LONGITUDE = -104°00'04.55" (-104.001263°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440813.54' E: 643887.46'
STATE PLANE NAD 27 (N.M. EAST)
N: 440754.69' E: 602703.50'

OXBOW 153H - EL: 2927.1'
NAD 83
LATITUDE = 32°12'41.17" (32.211437°)
LONGITUDE = -104°00'05.96" (-104.001655°)
NAD 27
LATITUDE = 32°12'40.73" (32.211314°)
LONGITUDE = -104°00'04.20" (-104.001166°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440813.12' E: 643917.45'
STATE PLANE NAD 27 (N.M. EAST)
N: 440754.26' E: 602733.49'

OXBOW 144H - EL: 2927.1'
NAD 83
LATITUDE = 32°12'41.17" (32.211436°)
LONGITUDE = -104°00'05.61" (-104.001558°)
NAD 27
LATITUDE = 32°12'40.73" (32.211313°)
LONGITUDE = -104°00'03.85" (-104.001069°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440812.69' E: 643947.44'
STATE PLANE NAD 27 (N.M. EAST)
N: 440753.83' E: 602763.48'

OXBOW 154H - EL: 2927.0'
NAD 83
LATITUDE = 32°12'41.16" (32.211434°)
LONGITUDE = -104°00'05.26" (-104.001461°)
NAD 27
LATITUDE = 32°12'40.72" (32.211311°)
LONGITUDE = -104°00'03.50" (-104.000972°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440812.27' E: 643977.43'
STATE PLANE NAD 27 (N.M. EAST)
N: 440753.41' E: 602793.47'

1 - EL: 2926.8'
NAD 83
LATITUDE = 32°12'39.05" (32.210848°)
LONGITUDE = -104°00'03.25" (-104.000902°)
NAD 27
LATITUDE = 32°12'38.61" (32.210725°)
LONGITUDE = -104°00'01.49" (-104.000414°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440599.48' E: 644150.85'
STATE PLANE NAD 27 (N.M. EAST)
N: 440540.63' E: 602966.88'

2 - EL: 2927.0'
NAD 83
LATITUDE = 32°12'39.02" (32.210840°)
LONGITUDE = -104°00'09.50" (-104.002639°)
NAD 27
LATITUDE = 32°12'38.58" (32.210717°)
LONGITUDE = -104°00'07.74" (-104.002150°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440594.83' E: 643613.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 440535.98' E: 602429.70'

3 - EL: 2927.2'
NAD 83
LATITUDE = 32°12'45.13" (32.212536°)
LONGITUDE = -104°00'09.64" (-104.002678°)
NAD 27
LATITUDE = 32°12'44.69" (32.212413°)
LONGITUDE = -104°00'07.88" (-104.002189°)
STATE PLANE NAD 83 (N.M. EAST)
N: 441211.86' E: 643599.94'
STATE PLANE NAD 27 (N.M. EAST)
N: 441153.00' E: 602416.00'

4 - EL: 2927.2'
NAD 83
LATITUDE = 32°12'45.20" (32.212554°)
LONGITUDE = -104°00'03.13" (-104.000870°)
NAD 27
LATITUDE = 32°12'44.75" (32.212432°)
LONGITUDE = -104°00'01.37" (-104.000381°)
STATE PLANE NAD 83 (N.M. EAST)
N: 441220.37' E: 644158.87'
STATE PLANE NAD 27 (N.M. EAST)
N: 441161.50' E: 602974.93'

BEGIN ACCESS ROAD "A" - EL: 2928.7'
NAD 83
LATITUDE = 32°12'44.88" (32.212468°)
LONGITUDE = -104°00'12.41" (-104.003447°)
NAD 27
LATITUDE = 32°12'44.44" (32.212345°)
LONGITUDE = -104°00'10.65" (-104.002958°)
STATE PLANE NAD 83 (N.M. EAST)
N: 441186.42' E: 643361.92'
STATE PLANE NAD 27 (N.M. EAST)
N: 441127.56' E: 602177.99'

END ACCESS ROAD "A" - EL: 2927.3'
NAD 83
LATITUDE = 32°12'45.03" (32.212507°)
LONGITUDE = -104°00'09.64" (-104.002677°)
NAD 27
LATITUDE = 32°12'44.58" (32.212385°)
LONGITUDE = -104°00'07.88" (-104.002188°)
STATE PLANE NAD 83 (N.M. EAST)
N: 441201.56' E: 643600.17'
STATE PLANE NAD 27 (N.M. EAST)
N: 441142.70' E: 602416.23'

BEGIN ACCESS ROAD "B" - EL: 2926.8'
NAD 83
LATITUDE = 32°12'39.18" (32.210884°)
LONGITUDE = -104°00'12.38" (-104.003438°)
NAD 27
LATITUDE = 32°12'38.74" (32.210761°)
LONGITUDE = -104°00'10.62" (-104.002949°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440610.30' E: 643366.65'
STATE PLANE NAD 27 (N.M. EAST)
N: 440551.45' E: 602182.70'

END ACCESS ROAD "B" - EL: 2926.8'
NAD 83
LATITUDE = 32°12'39.27" (32.210907°)
LONGITUDE = -104°00'09.51" (-104.002641°)
NAD 27
LATITUDE = 32°12'38.82" (32.210784°)
LONGITUDE = -104°00'07.75" (-104.002152°)
STATE PLANE NAD 83 (N.M. EAST)
N: 440619.40' E: 643613.10'
STATE PLANE NAD 27 (N.M. EAST)
N: 440560.55' E: 602429.15'

Sheet 2 of 2

REV: 1 06-11-24 T.I.R. (UPDATE WELL NAMES)

NOTES:

- Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)
- Corner Coordinates Shown are based on existing pad corners.

OXY USA INC.

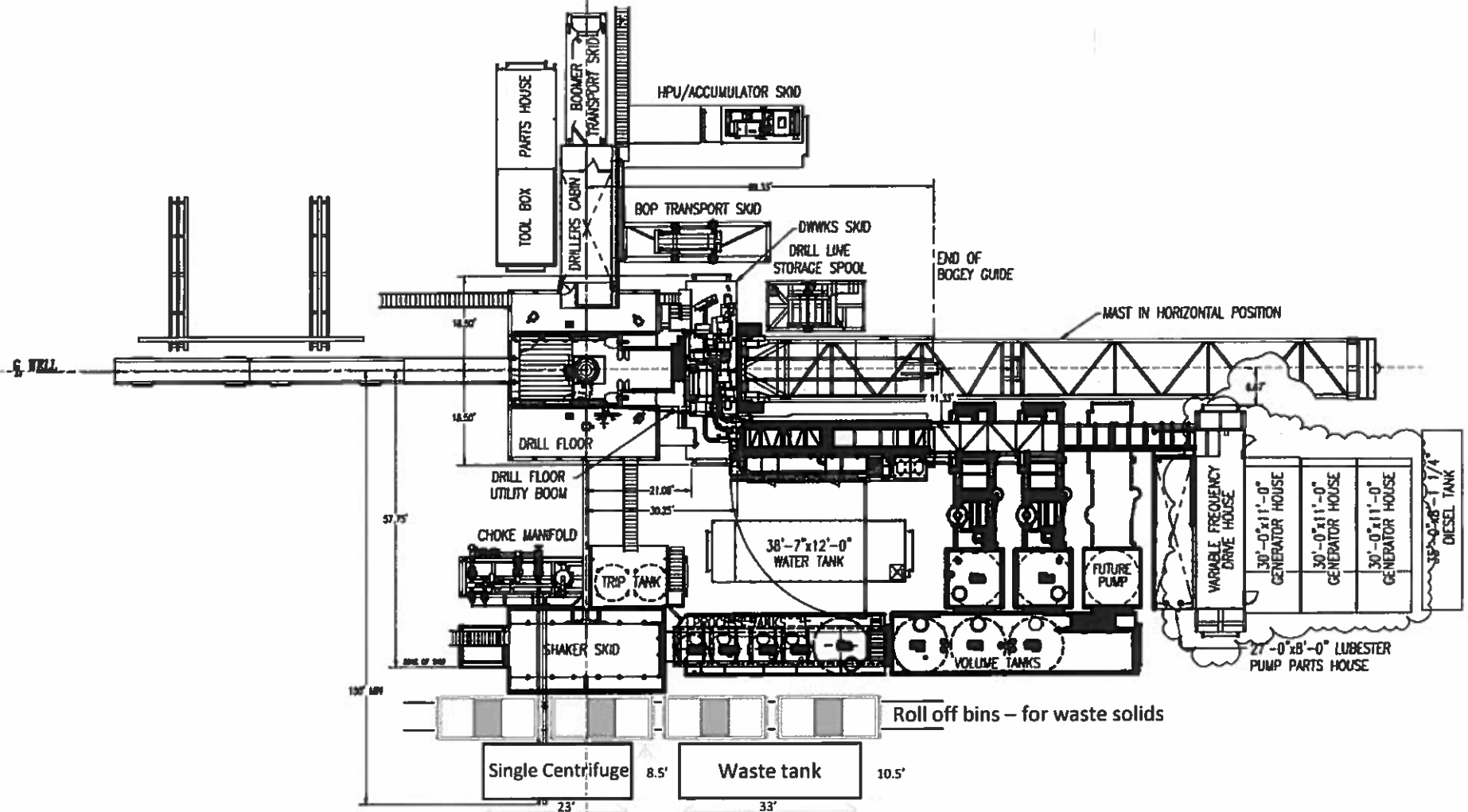
CEDCAN_T24SR29E_1710
SE 1/4 SE 1/4, SECTION 17, T24S, R29E, N.M.P.M.
EDDY COUNTY, NEW MEXICO

SURVEYED BY	C.T.	03-03-23	SCALE
DRAWN BY	D.M.C.	02-28-24	N/A
SITE PLAN			

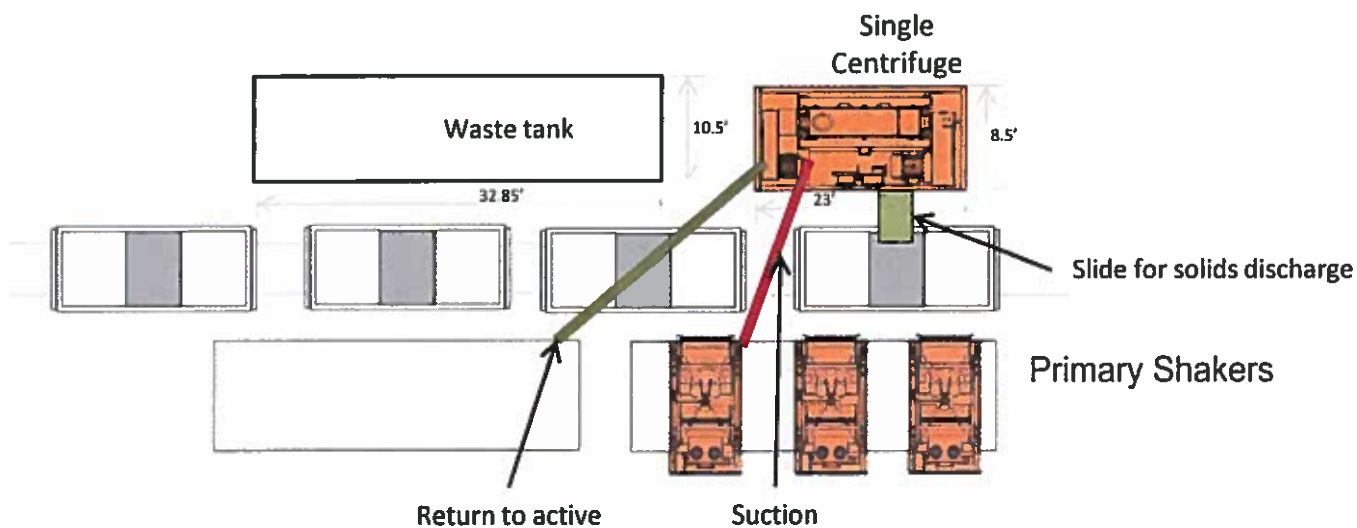


UELS, LLC
 Corporate Office * 85 South 200 East
 Vernal, UT 84078 * (435) 789-1017

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

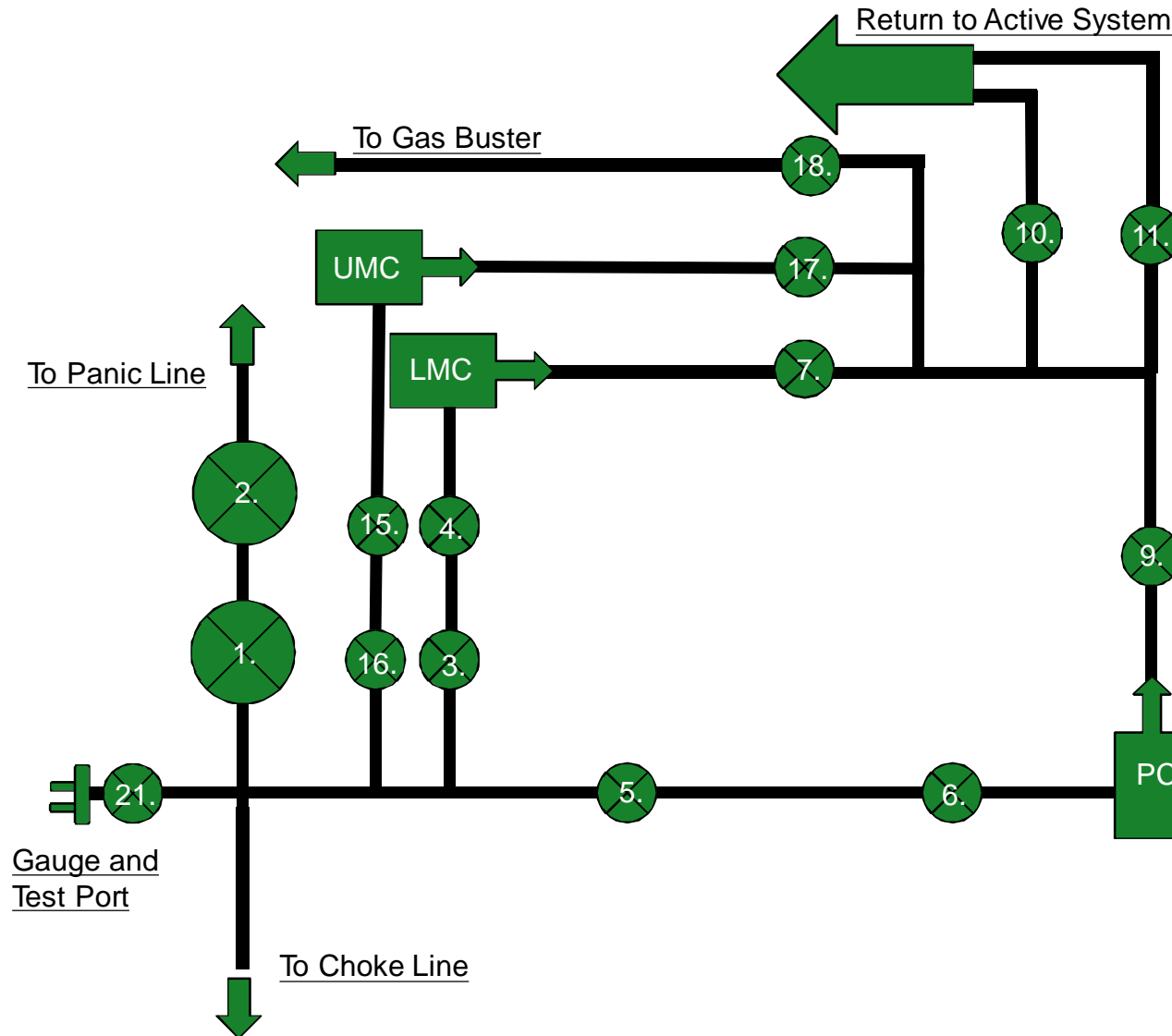


Oxy



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

10M Choke Panel



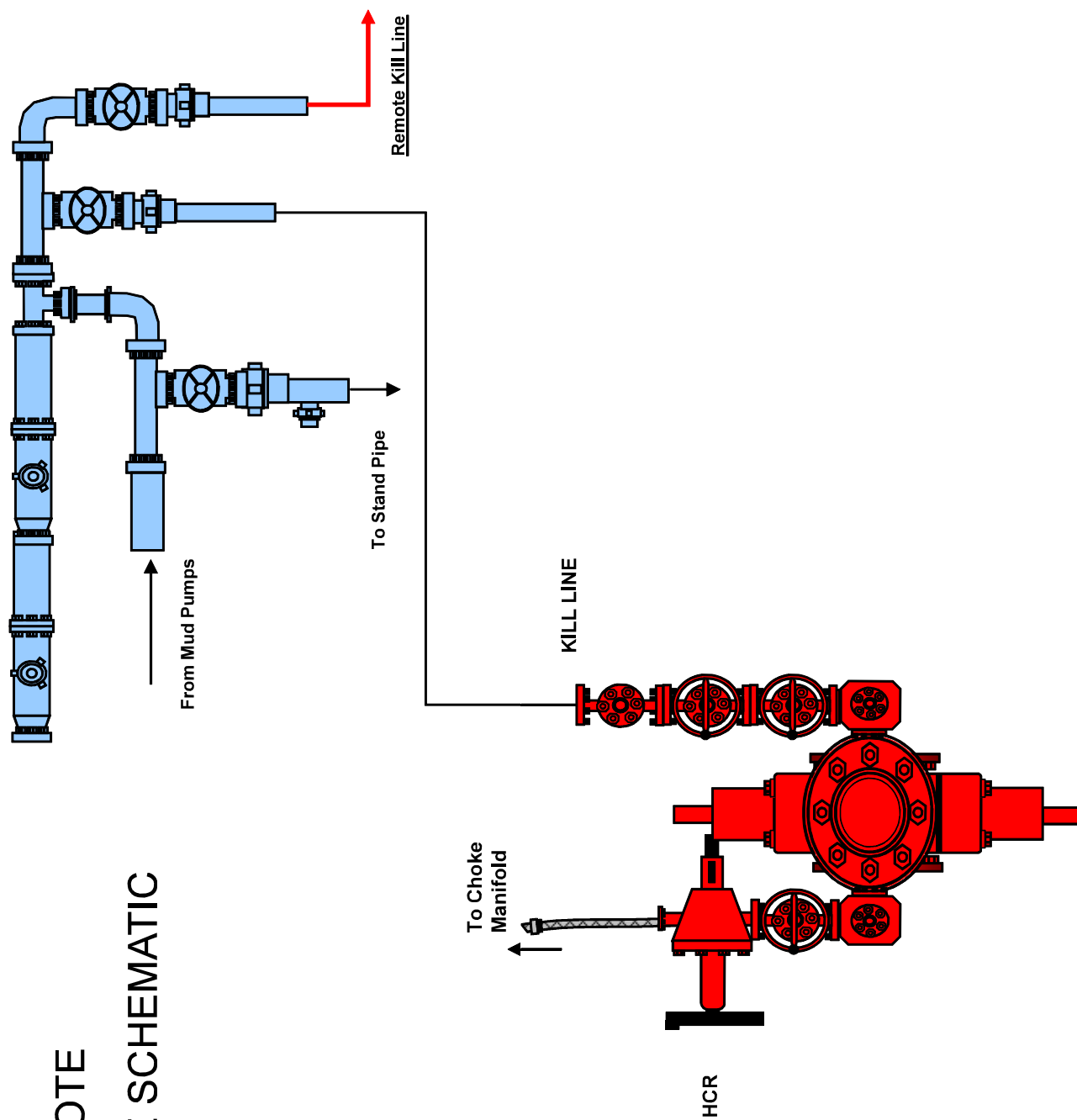
1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. PC – Power Choke
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. LMC – Lower Manual Choke
13. UMC –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

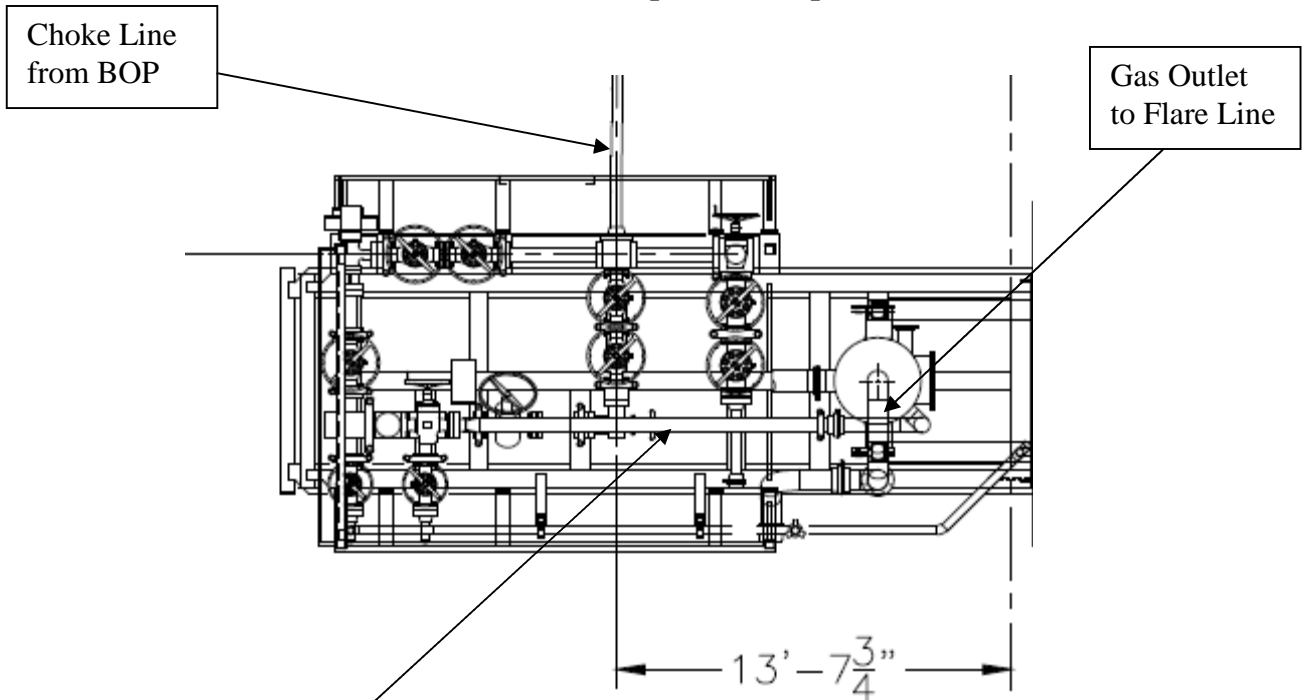
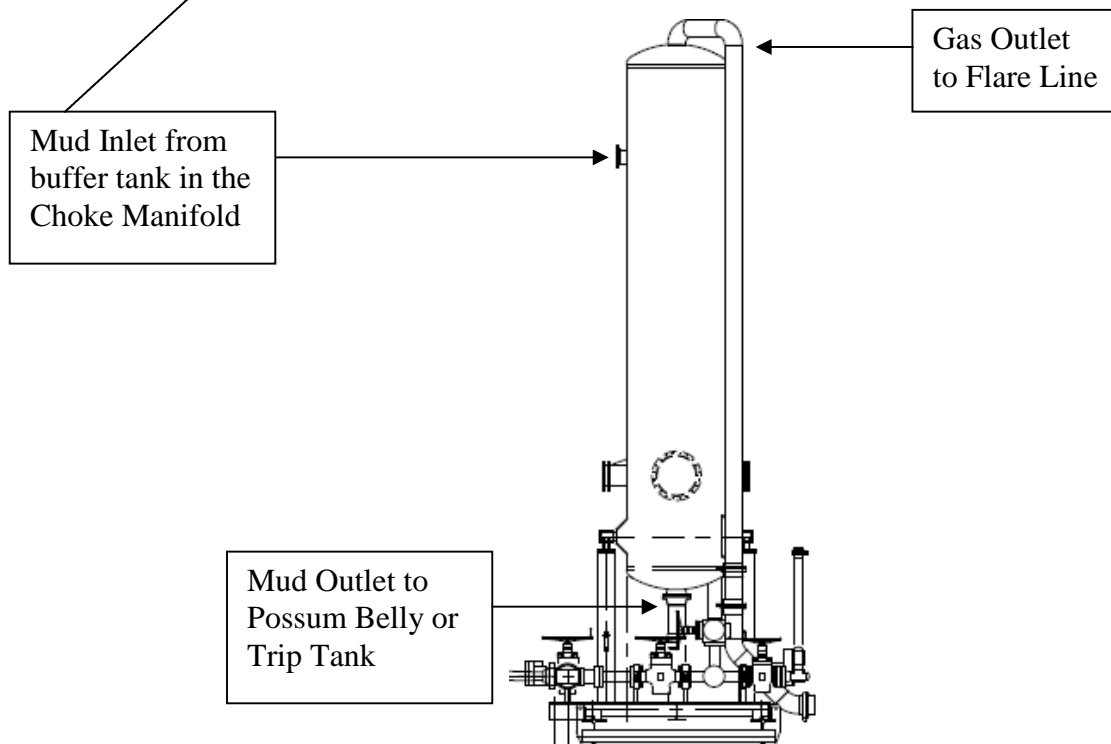


10M REMOTE KILL LINE SCHEMATIC

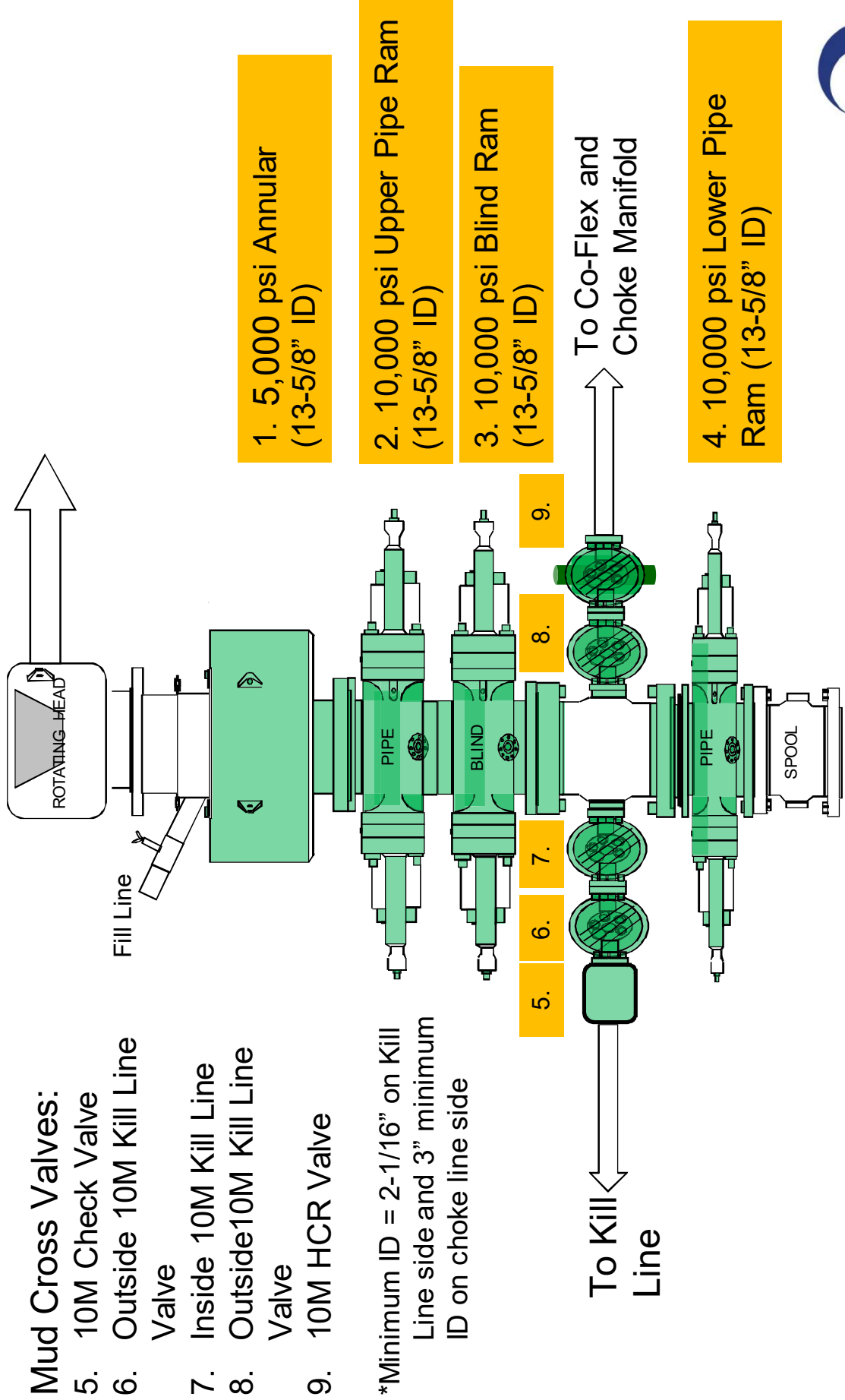


Gas Separator Routing Flex III Rigs



Choke Manifold – Gas Separator (Top View)**Choke Manifold – Gas Separator (Side View)**

5/10M BOP Stack





Certificate of Conformity

ContiTech

Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address	
Customer Purchase Order No: 740382384		HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
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: Date: 06/27/22	Gerson Mejia-Lazo 	

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	Qty	Serial Number	Specifications
30	RECERTIFICATION	3" ID 10K Choke and Kill Hose x 35ft OAL	1	70024	ContiTech Standard

ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal

Hydrostatic Test Certificate



ContiTech

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

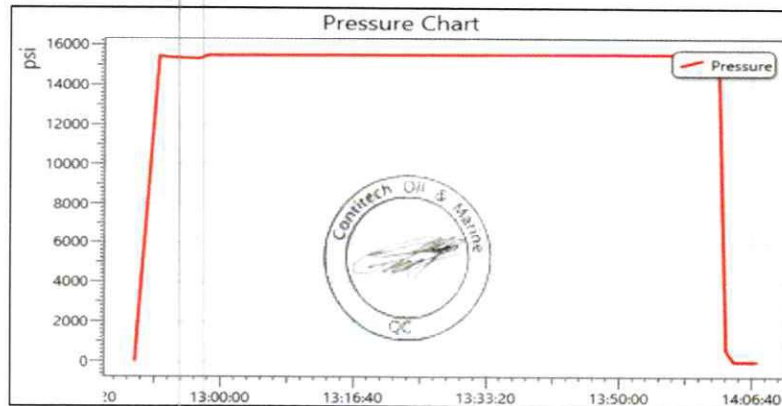
We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

Item	Part No.	Description	Qty	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



ContiTech Oil Marine Corp.

11535 Brittmoore Park Drive Houston, TX 77041, USA

Internal

SIGNATURE: *Norma Cobb*
 TITLE: QUALITY ASSURANCE
 DATE: 11/20/2019

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

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.

CERTIFICATE OF CONFORMANCE

EMAIL: Troy.Schmidt@gates.com

FAX:

PHONE : (281) 602-4119

Houston, TX. 77086

7603 Prairie Oak Dr.

Gates Engineering & Services North America



THIS WROTE 23/22
 IN USE
 AS

02.9
 130021
 2019
 CHOKES
 HOSE



Revision 1_022819

PRODUCTION
11/20/2019
<i>[Signature]</i>

Production:
Date :
Signature :

QUALITY
11/20/2019
<i>[Signature]</i>

F-PRD-005

Quality:
Date :
Signature :

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.

Customer: Customer Ref.: Invoice No.:	A-7 AUSTIN INC DBA AUSTIN HOSE 4128128 (RIG 1 PO 002773) 516982	End Fitting 1: Grade Star No.: CUSTOMER P/N:	4 1/16 10K FLANGES FIXED 68903010-9879429 10KFR3.012.0CK411610KFIXXFLT SSA SC LE
Product Description: 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL ARMOR C/W 4 1/16 10K FIX X FLOAT H25 SUITED FLANGES WITH BX 155 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE CLAMPS			
Test Date: Hose Serial No.: Created By:	11/20/2019 H2-112019-4 Norma Cabrera	End Fitting 2: Assembly Code: Test Pressure: Working Pressure:	4 1/16 10K FLANGES FLOAT L41242 113018 15,000 PSI 10,000 PSI

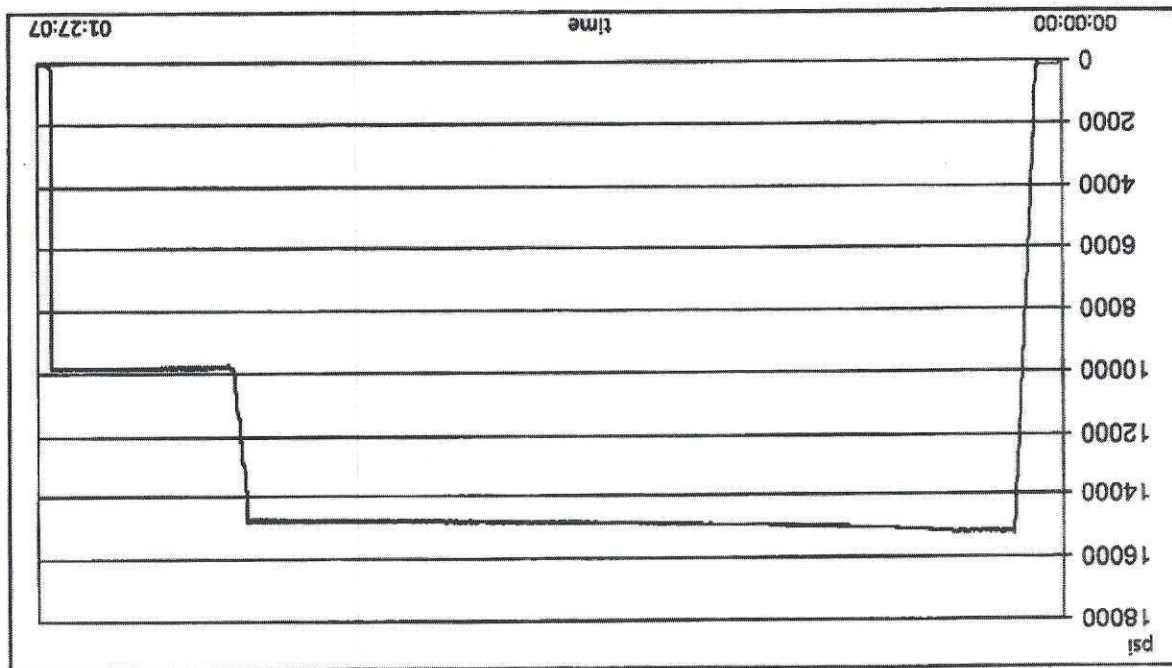
PRESSURE TEST CERTIFICATE

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

GATES ENGINEERING & SERVICES NORTH AMERICA

7603 Prairie Oak Dr.
Houston, TX 77086





Test operator: Roderick Shambra

Length measurement result:

Pressure test result: PASS

Visual check:

Length difference:

0.24 inch

Length difference:

0.00 %

Work pressure hold:

900.00 sec

Work pressure:

9750.00 psi

Test pressure hold:

3600.00 sec

Test pressure:

15000.00 psi

Test procedure:

GTS-04-053

TEST INFORMATION

Customer reference:

516982

Production description:

Austin Hose

Company:

TEST OBJECT

Serial number:

H2-112019-4

Lot number:

L41242113018

Description:

3.0 10K MS C&K

Hose ID:

3.0 x 4-1/16 10K

Description:

3.0 x 4-1/16 10K

Part number:

12 feet

Length:

Pressure test result: PASS

Length measurement result:

Test operator: Roderick Shambra

TEST REPORT

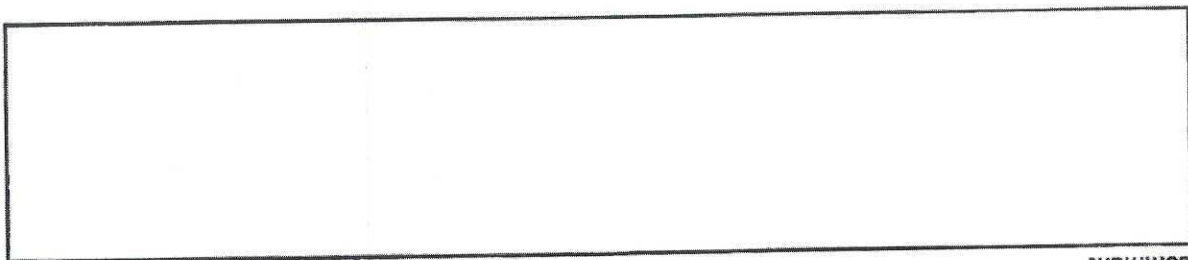


11/20/2019 12:13:07 PM

H2-1987

Page 2/2

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



Comment

Description	Serial number	Calibration date	Calibration due date
S-25-A-W	110AMCLO	2019-03-17	2020-03-15
S-25-A-W	110APO2K	2019-04-16	2020-04-14

GAUGE TRACEABILITY



TEST REPORT

11/20/2019 12:13:07 PM

H2-1987

Rev Date: 12/17/2019
Rev Date: 12/17/2019Garrett Crawford, Director of Quality
DW Industries Inc.

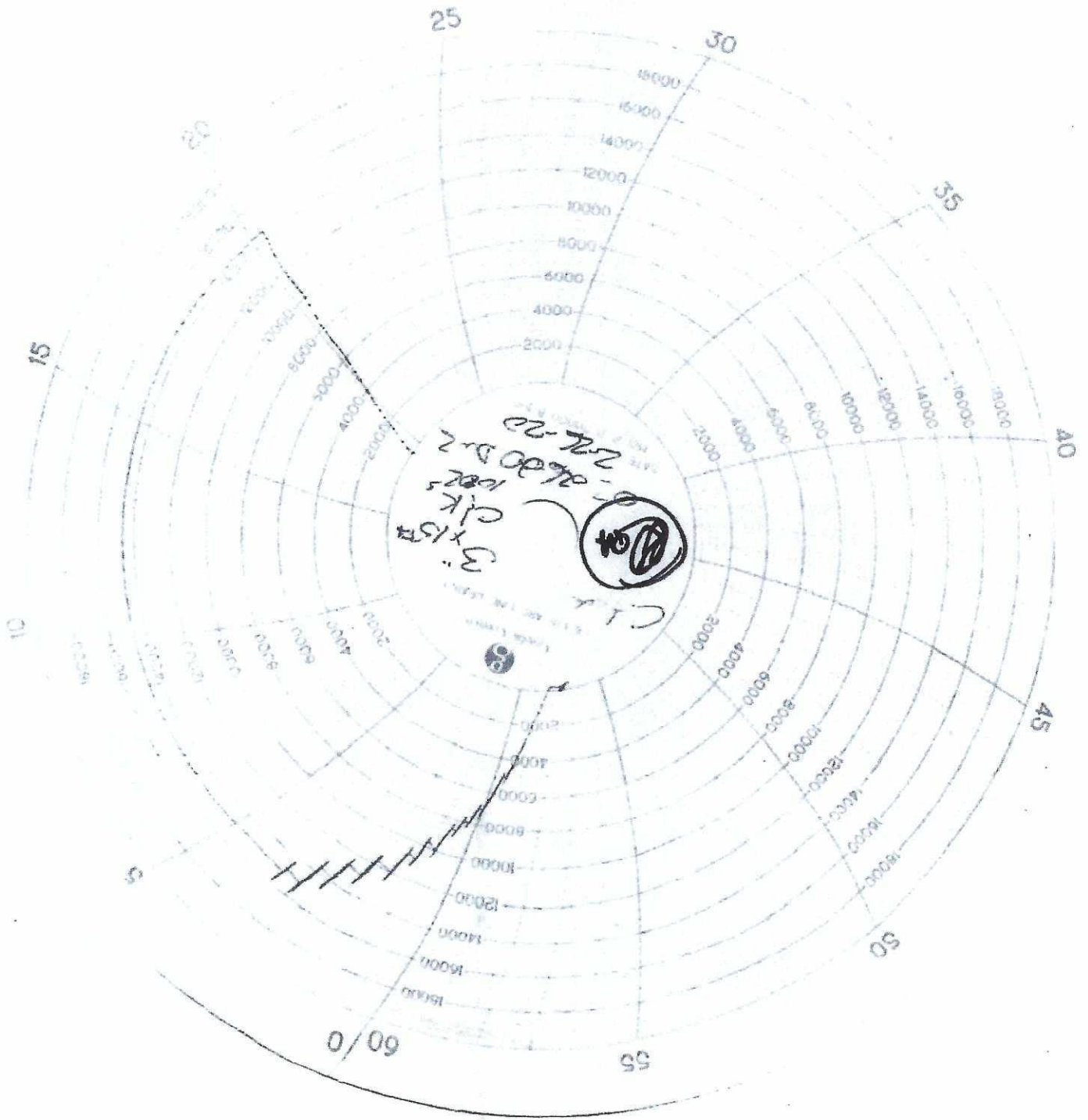
Certificate Issue Date: 2/27/2020

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, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
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	CITADEL DRILLING Customer Contact: PAUL HOFFMAN 432-241-5360	
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4815-1002-4	Serial Number:	022620DW-2		
Customer Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO	DW Industries Work Order Number:	20020163		

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

COPY
Certificate of Performance



QP-018-OF, Rev New
Rev Date: 12/17/2019Garrett Crawford, Director of Quality
DW Industries Inc.

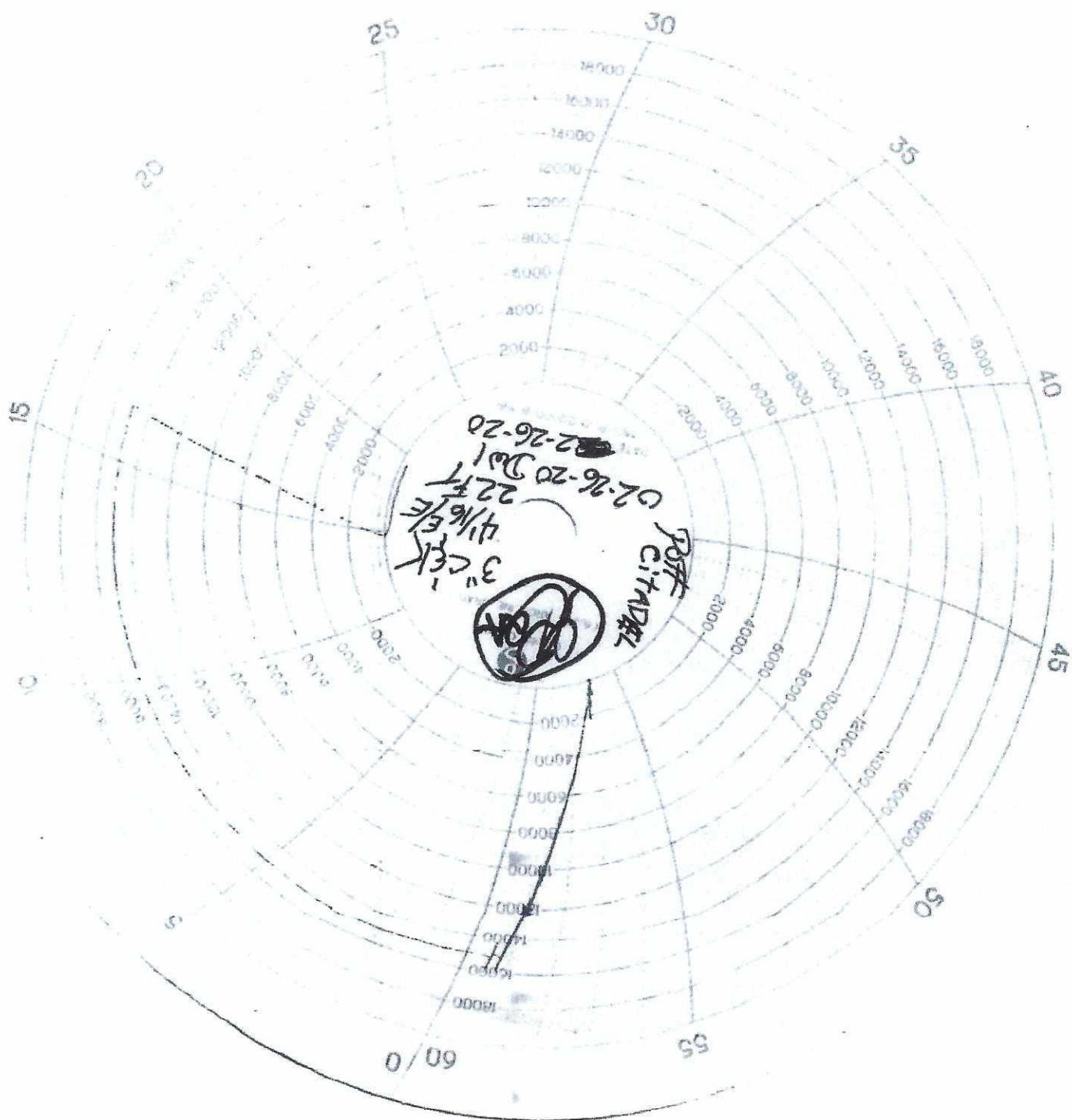
Certificate Issue Date: 2/27/2020

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, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

Purchase Order Information				Customer Name:	
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	CITADEL DRILLING	Customer Contact: PAUL HOFFMAN 432-241-5360
QTY Ordered:	1	Assembly Date:	02/26/2020		
DW Industries Part Number:	OA-5640-4822-4-1/16FXFL-ALE	Serial Number:	022620DW-1		
Customer Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO	DW Industries Work Order Number:	20020164		

DW INDUSTRIES INC.
6287 LONG DRIVE
Houston, TX 77067
Tel. 713 644-8372 Fax 713-644-4947

COPY
Certificate of Conformance



COPY

Quality Assurance,
DW Industries, Inc.

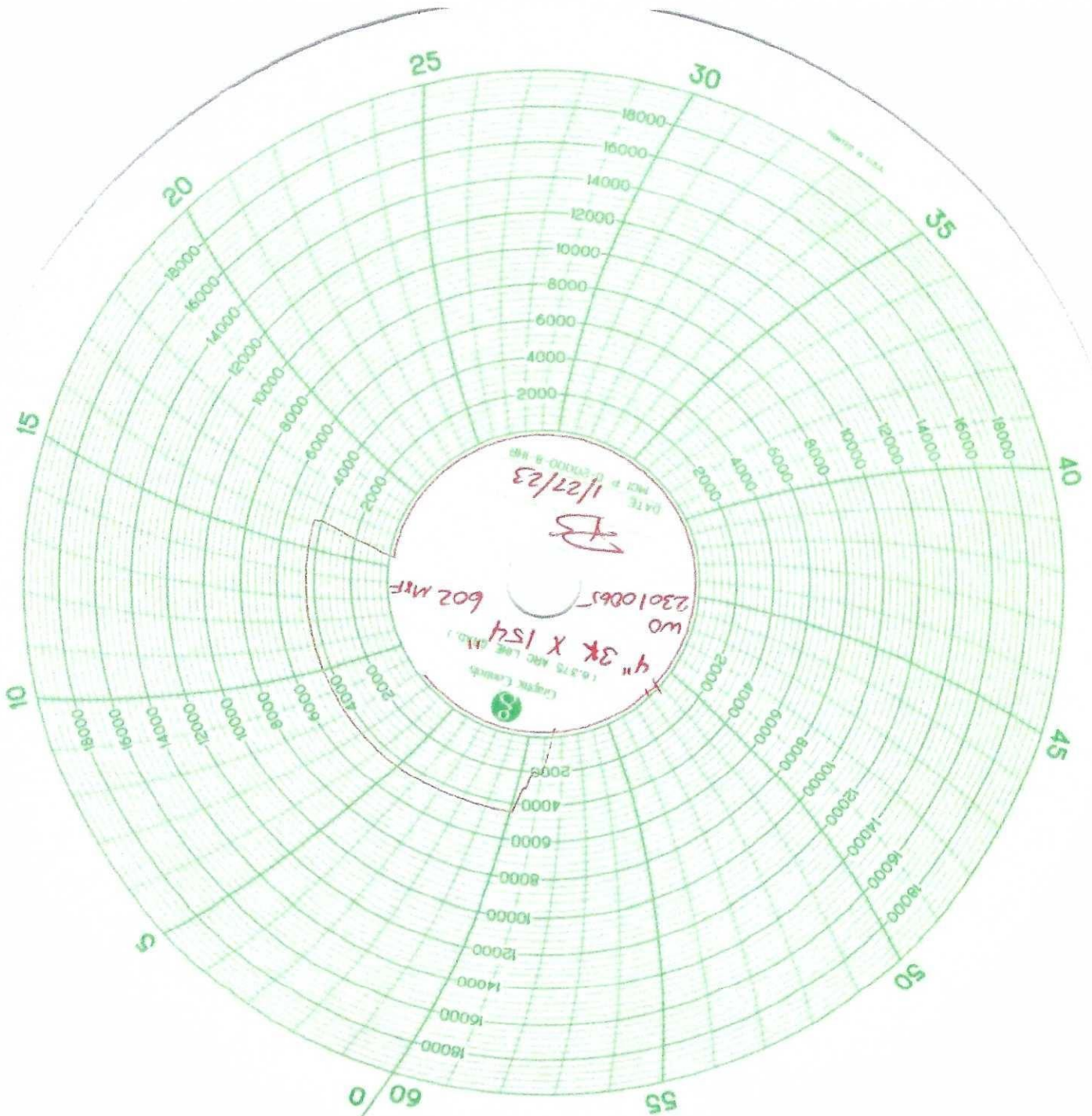
Certificate Issue Date: 1/27/2023

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, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

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

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

Certificate of Conformance



IN SERVICE
12-20-21

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

PHONE: +1 (281) 602-4100
FAX: +1 (281) 602-4147
EMAIL: gesna.quality@gates.com
WEB: www.gates.com/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
Date :	10/15/2021
Signature :	<i>Micky Mhina</i>

F-PRD-005B

Production:	PRODUCTION
Date :	10/15/2021
Signature :	<i>[Signature]</i>

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/ollandgas

CERTIFICATE OF CONFORMANCE

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

CUSTOMER: A-7 AUSTIN INC DBA AUSTIN HOSE
CUSTOMER P.O.#: 00595477
CUSTOMER P./N.#: 10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE
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: _____

A handwritten signature in black ink, appearing to read "M. W. W. W.", written over a horizontal line.

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 OBJECT

Serial number: H3-101521-2

Lot number: L41975091719

Description:

Hose ID: 3" 10k ck

Part number:

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

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

Part number:

Description:

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

Part number:

Description:

Visual check:

Pressure test result: PASS

Length measurement result:

Length: 35 feet

Test operator: francisco





10/15/2021 10:15:57 AM

TEST REPORT

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

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	Qty	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

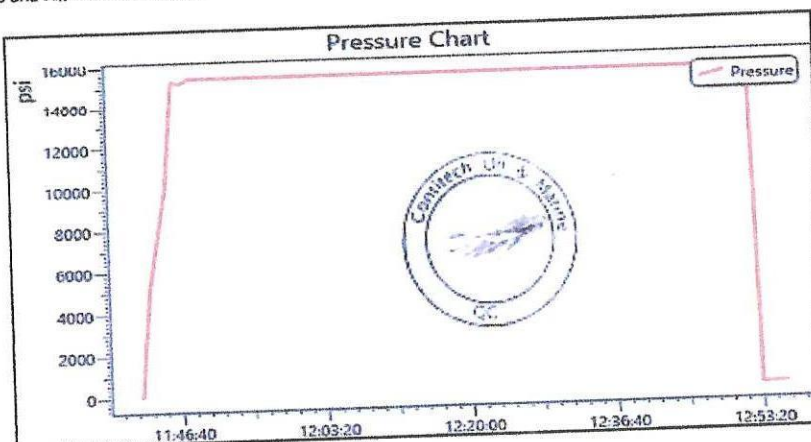
10,000

15,000

60

Record Information	
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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



**Certificate of Conformity**

ContiTech

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

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	Qty	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


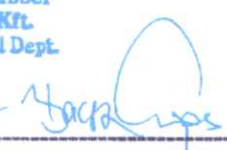


ContiTech

 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 4 1/16" 10K API Swivel Flange end Hub	6026	AISI 4130	A0607J		
		AISI 4130	040841		
		AISI 4130	54194		
3" coupling with 4 1/16" 10K API b.w. Flange end	6016	AISI 4130	A0607J		
		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 ContiTech Rubber Industrial Kft. Quality Control Dept. (1)			
08. April 2019.		 			



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 repairable damages 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.

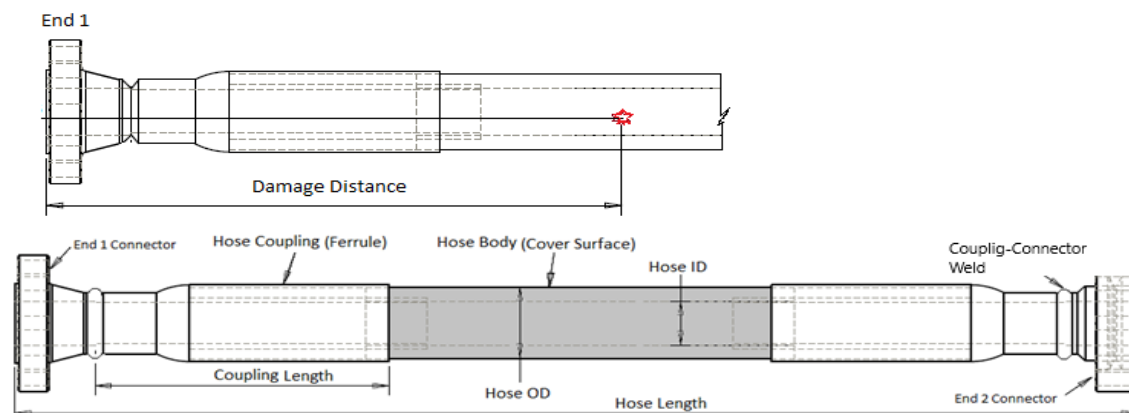




Figure 1: Generic Hose Assembly





Hose Assembly Evaluation Sheet

1.0 Observations and comments

	Comments
1	<div></div> <p>Photos: ID.</p>
2	<div></div> <p>Photo: Damaged armor areas</p>



Hose Assembly Evaluation Sheet

3	<div data-bbox="326 195 1252 873"></div> <p data-bbox="688 947 886 972">Photos: At Shipping.</p>
4	<div data-bbox="319 1005 1291 1715"></div> <p data-bbox="639 1751 935 1776">Photos: Armor and Engraving.</p>



Hose Assembly Evaluation Sheet

5	 <p style="text-align: center;">Photo: In the Crate</p>
---	---

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

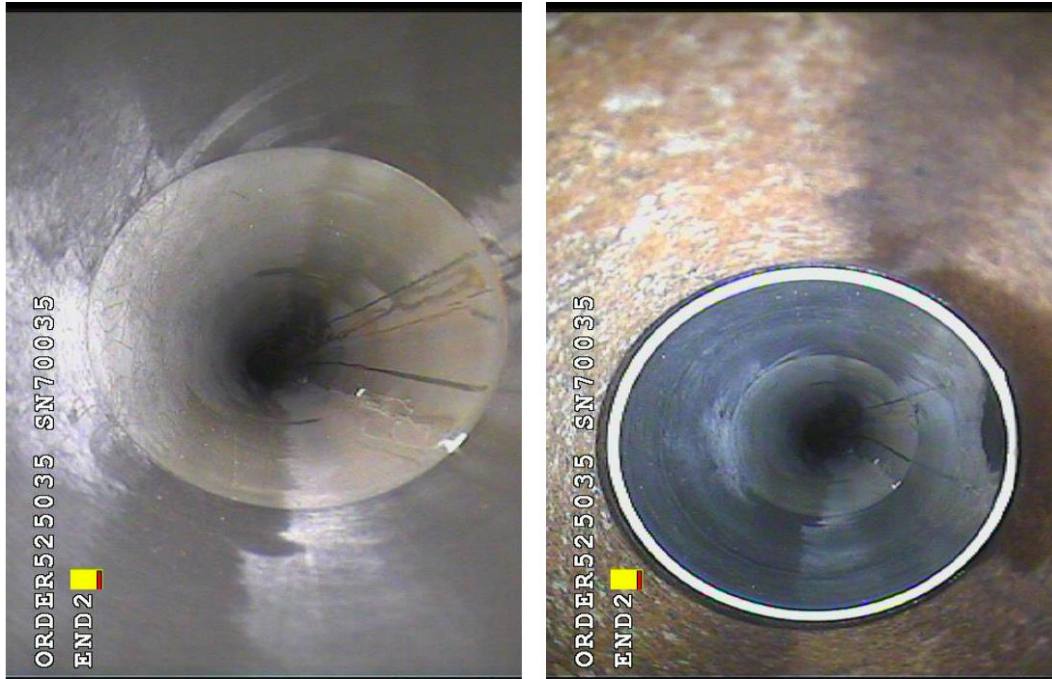
3. Hose borescope inspection

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

Company:

Production description:

Sales order #: 525035

Customer reference: 740398454 (88000240 |
SN:70035)

TEST OBJECT

Serial number: H2-082722-1

Lot number:

Description:

Hose ID: 3 10k C&K

Part number:

TEST INFORMATION

Test procedure: 3 10K C&K

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

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

Part number:

Description:

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

Part number:

Description:

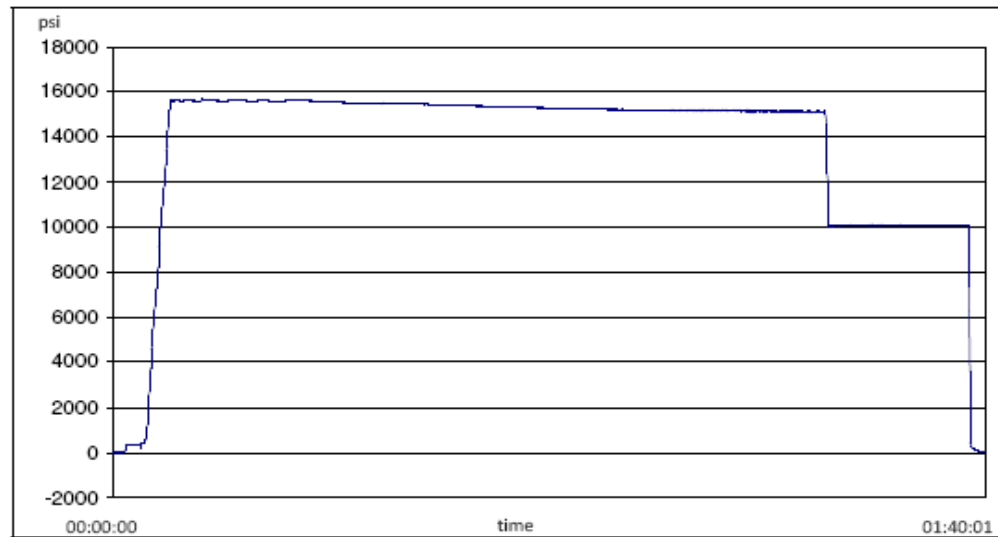
Visual check:

Pressure test result: PASS

Length measurement result:

Length: 35 feet

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



Hose Assembly Evaluation Sheet

APPENDIX 2:
Certificate of Conformance

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

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

CERTIFICATE OF CONFORMANCE

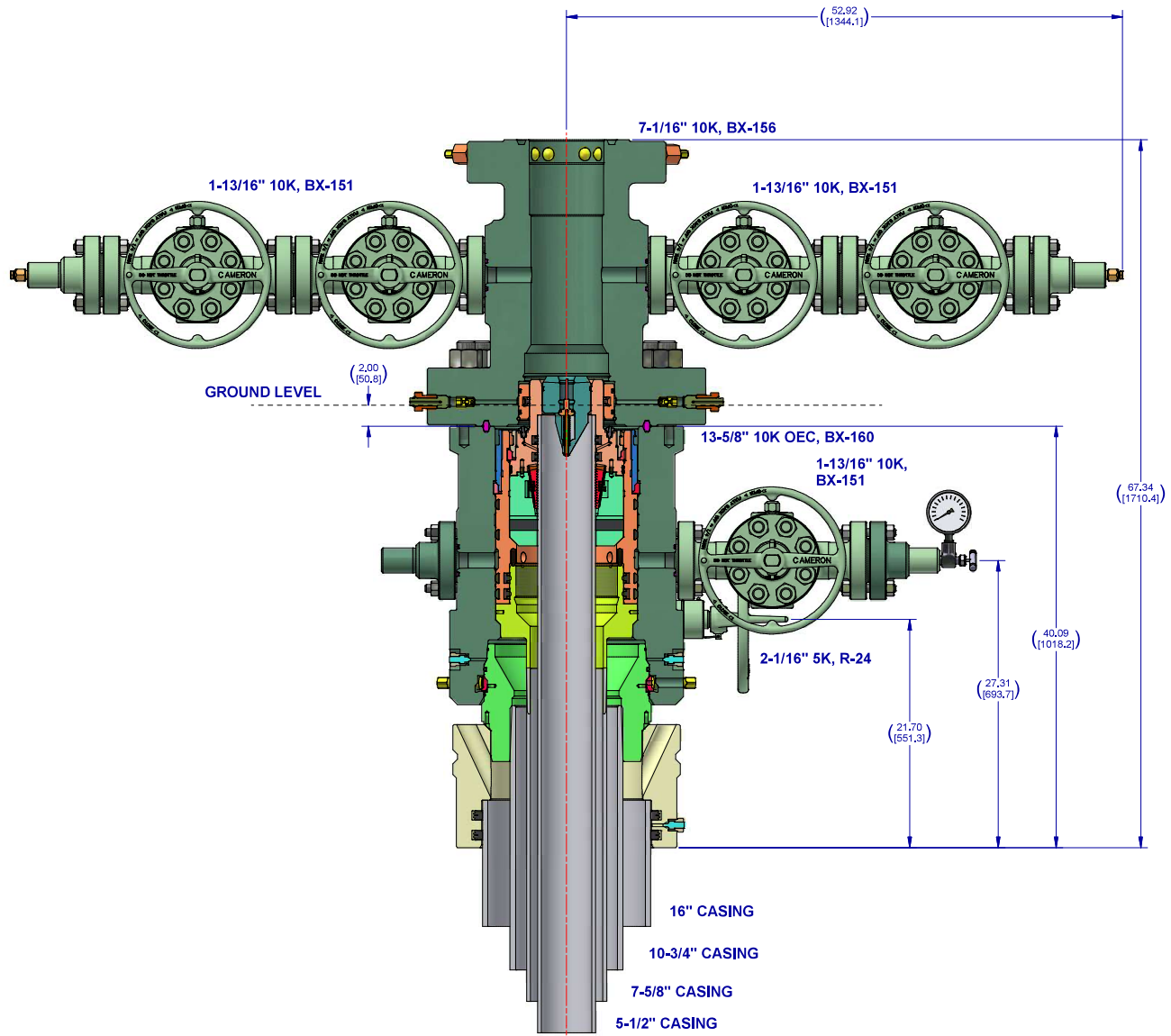
This is to verify that the items detailed below meet the requirements of the Customer's Purchase Order referenced herein, and are in Conformance with applicable specifications, and that Records of Required Tests are on file and subject to examination. The following items were inspected and hydrostatically 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	
DRAWN BY		DATE		SURFACE SYSTEMS	
D. GOTTUNG		2 Dec 21			
CHECKED BY		DATE			
D. GOTTUNG		2 Dec 21			
APPROVED BY		DATE			
D. GOTTUNG		2 Dec 21			
ESTIMATED WEIGHT		NET WEIGHT		SHEET	
6515.817 LBS		NET WEIGHT		4 of 4	
7055.434 KGS				SD-053434-94-05	
				REV	
				01	

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 $0.02 \times \text{MD of the shoe}$ 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.



CONNECTION DATA SHEET

OD: 5.500 in.

Weight: 20.00 lb/ft

Wall Th.: 0.361 in.

Grade: P110 RY

Drift: 4.653 in. (API)

VAM® SPRINT-SF



Semi-Flush

Field Torque Values

Make-up Torque (ft-lb)

20,000 MIN

22,500 OPTI

25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 MIN

15,750 MAX

(2) MTS: Maximum Torque with Sealability.

PIPE BODY PROPERTIES

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

CONNECTION PROPERTIES

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

JOINT PERFORMANCES

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

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



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

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

CONDITIONS

Action 467511

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 467511
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
guthries	Cement is required to circulate on both surface and intermediate1 strings of casing.	5/27/2025
guthries	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	5/27/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/25/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/25/2025
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.	6/25/2025
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.	6/25/2025