



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

# Operator Certification Data Report

11/04/2025

## 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:** 09/30/2025**Title:** Regulatory Advisor**Street Address:** 5 GREENWAY PLAZA SUITE 110**City:** HOUSTON**State:** TX**Zip:** 77046**Phone:** (713)497-2851**Email address:** SARA\_GUTHRIE@OXY.COM

## Field

**Representative Name:** Michael Wilson**Street Address:****City:****State:****Zip:****Phone:** (575)631-6618**Email address:** michael\_wilson@oxy.com



APD ID: 10400105593	Submission Date: 07/03/2025	Highlighted data reflects the most recent changes <a href="#">Show Final Text</a>
Operator Name: OXY USA INCORPORATED		
Well Name: PLATINUM MDP1 34_3 FEDERAL COM	Well Number: 44H	
Well Type: OIL WELL	Well Work Type: Drill	

## Section 1 - General

APD ID: 10400105593	Tie to previous NOS? N	Submission Date: 07/03/2025
BLM Office: Carlsbad	User: SARA GUTHRIE	Title: Regulatory Advisor
Federal/Indian APD: FED	Is the first lease penetrated for production Federal or Indian? FED	
Lease number: NMNM43744	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	
Operator PO Box:	Zip: 93276-1002
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: PLATINUM MDP1 34_3 FEDERAL COM	Well Number: 44H	Well API Number:
Field/Pool or Exploratory? Field and Pool	Field Name: PURPLE SAGE	Pool Name: WOLFCAMP

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H

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

**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:****Number:** 3401**Well Class:** HORIZONTAL**SNDDNS\_23S31E****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:** 111 FT**Reservoir well spacing assigned acres Measurement:** 640 Acres**Well plat:** PLATINUMMDP134\_3FEDCOM44H\_C102\_1\_20250619133641.pdf

PLATINUMMDP134\_3FEDCOM44H\_C102\_2\_20250619133705.pdf

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250619133724.pdf

PLATINUMMDP134\_3FEDCOM44H\_C102\_1\_20250930092631.pdf

PLATINUMMDP134\_3FEDCOM44H\_C102\_2\_20250930092638.pdf

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250930092651.pdf

**Well work start Date:** 06/19/2026**Duration:** 45 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR**Describe Survey Type:****Datum:** NAD83**Vertical Datum:** NAVD88**Survey number:****Reference Datum:** GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TV'D	Will this well produce from this

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34\_3 FEDERAL COM

Well Number: 44H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twp	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	111	FNL	863	FEL	23S	31E	34	Aliquot NENE	32.26788 47	-103.7599 149	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMMN 43744	344 3			N
KOP Leg #1	50	FNL	145 7	FEL	23S	31E	34	Aliquot NWNE	32.26805 15	-103.7618 365	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMMN 43744	-831 2	117 96	117 55	N
PPP Leg #1-1	100	FNL	145 7	FEL	23S	31E	34	Aliquot NWNE	32.26791 4	-103.7618 365	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMMN 43744	-888 8	127 08	123 31	Y
EXIT Leg #1	100	FSL	145 7	FEL	24S	31E	3	Aliquot SWSE	32.23941 99	-103.7618 557	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMMN 80645	-888 8	225 49	123 31	Y
BHL Leg #1	20	FSL	145 7	FEL	24S	31E	3	Aliquot SWSE	32.2392	-103.7618 561	EDD Y	NEW MEXI CO	NEW MEXI CO	F	NMMN 80645	-888 8	226 30	123 31	N



APD ID: 10400105593

Submission Date: 07/03/2025

Highlighted data  
reflects the most  
recent changes

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34\_3 FEDERAL COM

Well Number: 44H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

## Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formation
16717541	RUSTLER	3443	647	647	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
16717542	SALADO	2473	970	970	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
16717543	CASTILE	549	2894	2894	ANHYDRITE	OTHER : SALT	N
16717544	DELAWARE	-915	4358	4358	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16717545	BELL CANYON	-942	4385	4385	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16717546	CHERRY CANYON	-1840	5283	5283	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16717547	BRUSHY CANYON	-3181	6624	6624	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
16717548	BONE SPRING	-4764	8207	8207	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
16717549	BONE SPRING 1ST	-5820	9263	9266	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
16717550	BONE SPRING 2ND	-6399	9842	9853	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
16717551	BONE SPRING 3RD	-7673	11116	11147	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
16717552	WOLFCAMP	-8117	11560	11598	SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

## Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12331

Equipment: 13-5/8" 5M Annular, 10M Blind Ram, 10M 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

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H

upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

**Choke Diagram Attachment:**

PLATINUMMDP134\_3FEDCOM44H\_ChkManifolds\_20250619142237.pdf

PLATINUMMDP134\_3FEDCOM44H\_ChkManifolds\_20250930092956.pdf

**BOP Diagram Attachment:**

PLATINUMMDP134\_3FEDCOM44H\_BOP\_20250619142252.pdf

PLATINUMMDP134\_3FEDCOM44H\_FlexHoseCert\_20250619142316.pdf

PLATINUMMDP134\_3FEDCOM44H\_13inADAPT\_4S\_10x15\_20250619142327.pdf

PLATINUMMDP134\_3FEDCOM44H\_5MAnnBOPVariance\_20250930094340.pdf

PLATINUMMDP134\_3FEDCOM44H\_BOP\_20250930093115.pdf

PLATINUMMDP134\_3FEDCOM44H\_FlexHoseCert\_20250930093135.pdf

PLATINUMMDP134\_3FEDCOM44H\_13inADAPT\_4S\_10x15\_20250930093155.pdf

**Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	707	0	707	3443	2736	707	J-55	54.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
2	OTHER - SALT	12.25	10.75	NEW	API	N	0	4358	0	4358	3443	-915	4358	HCL -80	45.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
3	INTERMEDIATE	9.875	7.625	NEW	API	N	0	12051	0	12000	3698	-8557	12051	HCL -80	26.4	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
4	PRODUCTION	6.75	5.5	NEW	API	N	0	22630	0	12331	3698	-8888	22630	P-110	20	OTHER - SPRINT-SF	1	1.1	BUOY	1.4	BUOY	1.4

**Casing Attachments**

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**Casing Attachments****Casing ID:** 1      **String**      SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250619143217.pdf

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250930094137.pdf

**Casing ID:** 2      **String**      OTHER      - SALT**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250619143516.pdf

PLATINUMMDP134\_3FEDCOM44H\_API\_BTC\_SC\_10.750in\_45.50ppf\_L80IC\_20250620132441.pdf

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250930094227.pdf

PLATINUMMDP134\_3FEDCOM44H\_API\_BTC\_SC\_10.750in\_45.50ppf\_L80IC\_20250930094313.pdf

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**Casing Attachments****Casing ID:** 3      **String**      INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250619143252.pdf

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250930094148.pdf

**Casing ID:** 4      **String**      PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250619143328.pdf

PLATINUMMDP134\_3FEDCOM44H\_VAM\_SPRINT\_SF\_5.5in\_20ppf\_P110RY\_20250619143341.pdf

PLATINUMMDP134\_3FEDCOM44H\_CsgCriteria\_20250930094200.pdf

PLATINUMMDP134\_3FEDCOM44H\_VAM\_SPRINT\_SF\_5.5in\_20ppf\_P110RY\_20250930094208.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	707	739	1.33	14.8	983	100	Class C	Accelerator

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
OTHER	Lead	1	0	3858	611	1.73	12.9	1057	50	Class Pozz	Retarder

OTHER	Lead	1	3858	4358	85	1.33	14.8	113	20	Class C	Accelerator
-------	------	---	------	------	----	------	------	-----	----	---------	-------------

INTERMEDIATE	Lead	2	3858	6874	460	1.71	13.3	787	25	Class C	Accelerator
--------------	------	---	------	------	-----	------	------	-----	----	---------	-------------

INTERMEDIATE	Lead	2	6874	1205 1	695	1.68	13.2	1168	5	Class C	Retarder, Dispersant
--------------	------	---	------	-----------	-----	------	------	------	---	---------	----------------------

PRODUCTION	Lead		1155 1	2263 0	627	1.84	13.3	1154	25	Class C	Retarder
------------	------	--	-----------	-----------	-----	------	------	------	----	---------	----------

## Section 5 - Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be Used?** NO

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

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

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

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

## Circulating Medium Table

Operator Name: OXY USA INCORPORATED

Well Name: PLATINUM MDP1 34\_3 FEDERAL COM

Well Number: 44H

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	707	WATER-BASED MUD	8.6	8.8							
707	4358	OTHER : SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
4358	1205 1	OTHER : WATER-BASED MUD OR OIL-BASED MUD	8	10							
1205 1	2263 0	OTHER : WATER-BASED OR OIL-BASED MUD	9.5	13.5							

## 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:** 8657

**Anticipated Surface Pressure:** 5944

**Anticipated Bottom Hole Temperature(F):** 179

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

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards**

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**Hydrogen Sulfide drilling operations plan required? YES****Hydrogen sulfide drilling operations**

PLATINUMMDP134\_3FEDCOM44H\_H2S1\_20250619150939.pdf

PLATINUMMDP134\_3FEDCOM44H\_H2S2\_20250619150948.pdf

PLATINUMMDP134\_3FEDCOM44H\_H2S1\_20250930095221.pdf

PLATINUMMDP134\_3FEDCOM44H\_H2S2\_20250930095229.pdf

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

PLATINUMMDP134\_3FEDCOM44H\_DirectPlan\_20250619151241.pdf

PLATINUMMDP134\_3FEDCOM44H\_DirectPlan\_20250930100412.pdf

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

PLATINUMMDP134\_3FEDCOM44H\_DrillPlan\_20250619151251.pdf

PLATINUMMDP134\_3FEDCOM44H\_SpudRigData\_20250619151304.pdf

PLATINUMMDP134\_3FEDCOM44H\_2024\_KPLA\_Addendum\_WellboreSchematics\_20250619151318.pdf

PLATINUMMDP134\_3FEDCOM44H\_NGMP\_WMP\_20250623121526.pdf

PLATINUMMDP134\_3FEDCOM44H\_DrillPlan\_20250930100728.pdf

PLATINUMMDP134\_3FEDCOM44H\_SpudRigData\_20250930100737.pdf

PLATINUMMDP134\_3FEDCOM44H\_2024\_KPLA\_Addendum\_WellboreSchematics\_20250930101112.pdf

PLATINUMMDP134\_3FEDCOM44H\_NGMP\_WMP\_20250930101123.pdf

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

PLATINUMMDP134\_3FEDCOM44H\_5MAnnBOPVariance\_20250619151341.pdf

PLATINUMMDP134\_3FEDCOM44H\_BradenheadCBLVariance\_20250619151355.pdf

PLATINUMMDP134\_3FEDCOM44H\_OfflineCementVariance\_20250619151407.pdf

PLATINUMMDP134\_3FEDCOM44H\_BOPBreakTestingVariance2025\_20250619151440.pdf

PLATINUMMDP134\_3FEDCOM44H\_5MAnnBOPVariance\_20250930101134.pdf

PLATINUMMDP134\_3FEDCOM44H\_BOPBreakTestingVariance2025\_20250930101146.pdf

PLATINUMMDP134\_3FEDCOM44H\_BradenheadCBLVariance\_20250930101536.pdf

PLATINUMMDP134\_3FEDCOM44H\_OfflineCementVariance\_20250930101543.pdf



**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

**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:**

PLATINUMMDP134\_3FEDCOM44H\_1\_Mile\_Existing\_Well\_Map\_20250620065833.pdf

PLATINUMMDP134\_3FEDCOM44H\_1\_Mile\_Existing\_Well\_Map\_20250930101704.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 Platinum CTB would be utilized and the necessary production equipment will be installed at the well site.

**Production Facilities map:**

PLATINUMMDP134\_3FEDCOM44H\_Lease\_Facility\_20250703101226.pdf

PLATINUMMDP134\_3FEDCOM44H\_Lease\_Facility\_20250930101716.pdf

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source type:** GW WELL**Water source use type:** SURFACE CASING

OTHER

**Describe use type:** DRILLINGINTERMEDIATE/PRODUCTION  
CASING**Source latitude:****Source longitude:****Source datum:****City:****Water source permit type:** WATER WELL**Water source transport method:** TRUCKING

PIPELINE

**Source land ownership:** COMMERCIAL**Source transportation land ownership:** COMMERCIAL**Water source volume (barrels):** 2000**Source volume (acre-feet):** 0.25778619**Source volume (gal):** 84000

### Water source and transportation

PLATINUMMDP134\_3FEDCOM44H\_Water\_Caliche\_20250620072929.pdf

PLATINUMMDP134\_3FEDCOM44H\_WtrSrcGRR\_20250620072940.pdf

PLATINUMMDP134\_3FEDCOM44H\_WtrSrcMesq\_20250620072949.pdf

PLATINUMMDP134\_3FEDCOM44H\_Water\_Caliche\_20250930102142.pdf

PLATINUMMDP134\_3FEDCOM44H\_WtrSrcGRR\_20250930102229.pdf

PLATINUMMDP134\_3FEDCOM44H\_WtrSrcMesq\_20250930102236.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:**

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**Aquifer documentation:****Well depth (ft):****Well casing type:****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**

PLATINUMMDP134\_3FEDCOM44H\_Water\_Caliche\_20250620073506.pdf

PLATINUMMDP134\_3FEDCOM44H\_Water\_Caliche\_20250930102310.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:** 1940 barrels**Waste disposal frequency :** Daily**Safe containment description:** Haul-Off Bins**Safe containmant attachment:****Waste disposal type:** HAUL TO COMMERCIAL**Disposal location ownership:** COMMERCIAL

FACILITY

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**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. 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**

**Operator Name:** OXY USA INCORPORATED**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Number:** 44H**Comments:****Section 9 - Well Site****Well Site Layout Diagram:**

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250620074519.pdf

PLATINUMMDP134\_3FEDCOM44H\_ClosedLoop\_20250620074638.pdf

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250930102333.pdf

PLATINUMMDP134\_3FEDCOM44H\_ClosedLoop\_20250930102339.pdf

**Comments:****Section 10 - Plans for Surface****Type of disturbance:** New Surface Disturbance**Multiple Well Pad Name:** SNDDNS\_23S31E**Multiple Well Pad Number:** 3401**Recontouring**

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250620081029.pdf

PLATINUMMDP134\_3FEDCOM44H\_SitePlan\_20250930102405.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.

<b>Well pad proposed disturbance (acres):</b> 5.95	<b>Well pad interim reclamation (acres):</b> 1.61	<b>Well pad long term disturbance (acres):</b> 4.34
<b>Road proposed disturbance (acres):</b> 0.97	<b>Road interim reclamation (acres):</b> 0.32	<b>Road long term disturbance (acres):</b> 0.65
<b>Powerline proposed disturbance (acres):</b> 0.74	<b>Powerline interim reclamation (acres):</b> 0.74	<b>Powerline long term disturbance (acres):</b> 0
<b>Pipeline proposed disturbance (acres):</b> 11.14	<b>Pipeline interim reclamation (acres):</b> 7.43	<b>Pipeline long term disturbance (acres):</b> 3.71
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 18.8	<b>Total interim reclamation:</b> 10.1	<b>Total long term disturbance:</b> 8.7

**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.

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

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

**Existing Vegetation at the well pad**

**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:**

<b>Seed Type</b>	<b>Pounds/Acre</b>
------------------	--------------------

**Seed reclamation**

**Operator Contact/Responsible Official**

**First Name:** Michael

**Last Name:** Wilson

**Phone:** (575)631-6618

**Email:** michael\_wilson@oxy.com

**Seedbed prep:**

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

**Seed BMP:**

**Seed method:**

**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment**

**Weed treatment plan description:** To be determined by BLM.

**Weed treatment plan**

**Monitoring plan description:** To be determined by BLM.

**Monitoring plan**

**Success standards:** To be determined by BLM.

**Pit closure description:** NA

**Pit closure attachment:**

## Section 11 - Surface

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

**Disturbance type:** OTHER

**Describe:** ELECTRIC LINES

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## 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**

PLATINUMMDP134\_3FEDCOM44H\_StakeForm\_20250620084745.pdf

PLATINUMMDP134\_3FEDCOM44H\_NGMP\_WMP\_20250623124142.pdf

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

PLATINUMMDP134\_3FEDCOM44H\_StakeForm\_20250930102830.pdf

PLATINUMMDP134\_3FEDCOM44H\_NGMP\_WMP\_20250930102837.pdf

PLATINUMMDP134\_3FEDCOM44H\_StakeForm\_20251007122143.pdf

PLATINUMMDP134\_3FEDCOM44H\_NGMP\_WMP\_20251007122152.pdf



**APD ID:** 10400105593

**Submission Date:** 07/03/2025

**Operator Name:** OXY USA INCORPORATED

**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

**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:

Describe 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:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

## 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:** PLATINUM MDP1 34\_3 FEDERAL COM

**Well Number:** 44H

## 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**

11/04/2025

**APD ID:** 10400105593**Submission Date:** 07/03/2025

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

**Operator Name:** OXY USA INCORPORATED**Well Number:** 44H**Well Name:** PLATINUM MDP1 34\_3 FEDERAL COM**Well Work Type:** Drill**Well Type:** OIL WELL

## Bond

**Federal/Indian APD:** FED**BLM Bond number:** ESB000226**BIA Bond number:****Do you have a reclamation bond?** NO**Is the reclamation bond a rider under the BLM bond?****Is the reclamation bond BLM or Forest Service?****BLM reclamation bond number:****Forest Service reclamation bond number:****Forest Service reclamation bond attachment:****Reclamation bond amount:****Reclamation bond rider amount:****Additional reclamation bond information attachment:**

Form 3160-3  
(October 2024)FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

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

1a. Type of work:	<input checked="" type="checkbox"/> DRILL	<input type="checkbox"/> REENTER	7. If Unit or CA Agreement, Name and No.	
1b. Type of Well:	<input checked="" type="checkbox"/> Oil Well	<input type="checkbox"/> Gas Well	8. Lease Name and Well No.	
1c. Type of Completion:	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Single Zone	<input checked="" type="checkbox"/> Multiple Zone	
2. Name of Operator	9. API Well No. <b>30-015-57560</b>			
OXY USA INCORPORATED		10. Field and Pool, or Exploratory <b>PURPLE SAGE/WOLFCAMP</b>		
3a. Address	3b. Phone No. (include area code)		11. Sec., T. R. M. or Blk. and Survey or Area SEC 34/T23S/R31E/NMP	
5 GREENWAY PLAZA SUITE 110, HOUSTON, TX 77046		(713) 366-5716		
4. Location of Well (Report location clearly and in accordance with any State requirements. *)	At surface <b>NENE / 111 FNL / 863 FEL / LAT 32.2678847 / LONG -103.7599149</b> At proposed prod. zone <b>SWSE / 20 FSL / 1457 FEL / LAT 32.2392 / LONG -103.7618561</b>			
14. Distance in miles and direction from nearest town or post office*	12. County or Parish <b>EDDY</b>			13. State <b>NM</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	<b>111 feet</b>	16. No of acres in lease	17. Spacing Unit dedicated to this well <b>640.0</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	<b>30 feet</b>	19. Proposed Depth	20. BLM/BIA Bond No. in file <b>FED: ESB000226</b>	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	<b>3443 feet</b>	22. Approximate date work will start*	23. Estimated duration <b>06/19/2026</b> <b>45 days</b>	
24. Attachments				

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.	4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
2. A Drilling Plan.	5. Operator certification.
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).	6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) <b>SARA GUTHRIE / Ph: (713) 366-5716</b>	Date <b>07/03/2025</b>
--	--	---------------------------

Title <b>Regulatory Advisor</b>	Name (Printed/Typed) <b>CODY LAYTON / Ph: (575) 234-5959</b>	Date <b>11/04/2025</b>
Title <b>Assistant Field Manager Lands &amp; Minerals</b>	Office <b>Carlsbad Field Office</b>	

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)

**APPROVED WITH CONDITIONS**

\*(Instructions on page 2)

## Additional Operator Remarks

### Location of Well

0. SHL: NENE / 111 FNL / 863 FEL / TWSP: 23S / RANGE: 31E / SECTION: 34 / LAT: 32.2678847 / LONG: -103.7599149 ( TVD: 0 feet, MD: 0 feet )  
PPP: NWNE / 100 FNL / 1457 FEL / TWSP: 23S / RANGE: 31E / SECTION: 34 / LAT: 32.267914 / LONG: -103.7618365 ( TVD: 12331 feet, MD: 12708 feet )  
BHL: SWSE / 20 FSL / 1457 FEL / TWSP: 24S / RANGE: 31E / SECTION: 3 / LAT: 32.2392 / LONG: -103.7618561 ( TVD: 12331 feet, MD: 22630 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 PermittingState of New Mexico  
Energy, Minerals, & Natural Resources Department  
OIL CONSERVATION DIVISIONRevised July 9, 2024  
PAGE 1 OF 2Submittal  Initial Submittal  
 Amended Report  
Type:  As Drilled

## WELL LOCATION INFORMATION

API Number <b>30-015-57560</b>	Pool Code <b>98220</b>	Pool Name <b>PURPLE SAGE, WOLFCAMP (GAS)</b>
Property Code <b>322245</b>	Property Name <b>PLATINUM MDP1 34_3 FED COM</b>	Well Number <b>44H</b>
OGRID No. <b>16696</b>	Operator Name <b>OXY USA INC.</b>	Ground Level Elevation <b>3443'</b>
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" 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 A	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 111' FNL	Ft. from E/W 863' FEL	Latitude (NAD83) 32.26788474	Longitude (NAD83) -103.75991497	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	--------------------------	---------------------------------	------------------------------------	----------------

## Bottom Hole Location

UL O	Section 03	Township 24S	Range 31E	Lot	Ft. from N/S 20' FSL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.23920009	Longitude (NAD83) -103.76185611	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	---------------------------	---------------------------------	------------------------------------	----------------

Dedicated Acres <b>640.11</b>	Infill or Defining Well <b>INFILL</b>	Defining Well API <b>30-015-45251</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>N/A</b>
Order Numbers: <b>N/A</b>	Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

## Kick Off Point (KOP)

UL B	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 50' FNL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.26805150	Longitude (NAD83) -103.76183651	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	---------------------------	---------------------------------	------------------------------------	----------------

## First Take Point (FTP)

UL B	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.26791406	Longitude (NAD83) -103.76183651	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	---------------------------	---------------------------------	------------------------------------	----------------

## Last Take Point (LTP)

UL O	Section 03	Township 24S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.23941999	Longitude (NAD83) -103.76185578	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	---------------------------	---------------------------------	------------------------------------	----------------

Unitized Area or Area of Uniform Interest <b>N/A</b>	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation <b>3443'</b>
---	---	--

## OPERATOR CERTIFICATIONS

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

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

*Sara Guthrie* 6/18/2025  
Signature Date

Sara Guthrie  
Printed Name

sara\_guthrie@oxy.com  
Email Address

## SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

Certificate Number Date of Survey  
**21653** **FEBRUARY 26, 2025**



C-102

Submit Electronically  
Via OCD PermittingState of New Mexico  
Energy, Minerals, & Natural Resources Department  
OIL CONSERVATION DIVISIONRevised July 9, 2024  
PAGE 1 OF 2Submittal  Initial Submittal  
 Amended Report  
Type:  As Drilled

## WELL LOCATION INFORMATION

API Number <b>30-015</b>	Pool Code <b>98236</b>	Pool Name <b>WC-015 G-08 S233135D; WOLFCAMP</b>
Property Code	Property Name PLATINUM MDP1 34_3 FED COM	Well Number 44H
OGRID No. 16696	Operator Name OXY USA INC.	Ground Level Elevation 3443'
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" 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 A	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 111' FNL	Ft. from E/W 863' FEL	Latitude (NAD83) 32.26788474	Longitude (NAD83) -103.75991497	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	--------------------------	---------------------------------	------------------------------------	----------------

## Bottom Hole Location

UL O	Section 03	Township 24S	Range 31E	Lot	Ft. from N/S 20' FSL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.23920009	Longitude (NAD83) -103.76185611	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	---------------------------	---------------------------------	------------------------------------	----------------

Dedicated Acres 640.11	Infill or Defining Well <b>INFILL</b>	Defining Well API <b>30-015-45251</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>N/A</b>
Order Numbers: <b>N/A</b>		Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No		

## Kick Off Point (KOP)

UL B	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 50' FNL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.26805150	Longitude (NAD83) -103.76183651	County EDDY
---------	---------------	-----------------	--------------	-----	-------------------------	---------------------------	---------------------------------	------------------------------------	----------------

## First Take Point (FTP)

UL B	Section 34	Township 23S	Range 31E	Lot	Ft. from N/S 100' FNL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.26791406	Longitude (NAD83) -103.76183651	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	---------------------------	---------------------------------	------------------------------------	----------------

## Last Take Point (LTP)

UL O	Section 03	Township 24S	Range 31E	Lot	Ft. from N/S 100' FSL	Ft. from E/W 1457' FEL	Latitude (NAD83) 32.23941999	Longitude (NAD83) -103.76185578	County EDDY
---------	---------------	-----------------	--------------	-----	--------------------------	---------------------------	---------------------------------	------------------------------------	----------------

Unitized Area or Area of Uniform Interest <b>N/A</b>	Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation 3443'
---	---	---------------------------------

## OPERATOR CERTIFICATIONS

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

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

*Sara Guthrie*

6/18/2025

Signature

Date

Sara Guthrie

Printed Name

sara\_guthrie@oxy.com

Email Address

## SURVEYOR CERTIFICATIONS

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



Signature and Seal of Professional Surveyor

Certificate Number

21653

Date of Survey

FEBRUARY 26, 2025



SHL (NAD83) X:718572.88' / Y:461663.01' LAT:32.26788474 / LON:-103.75991497
SHL (NAD27) X:677389.29' / Y:461603.72' LAT:32.26776159 / LON:-103.75943011

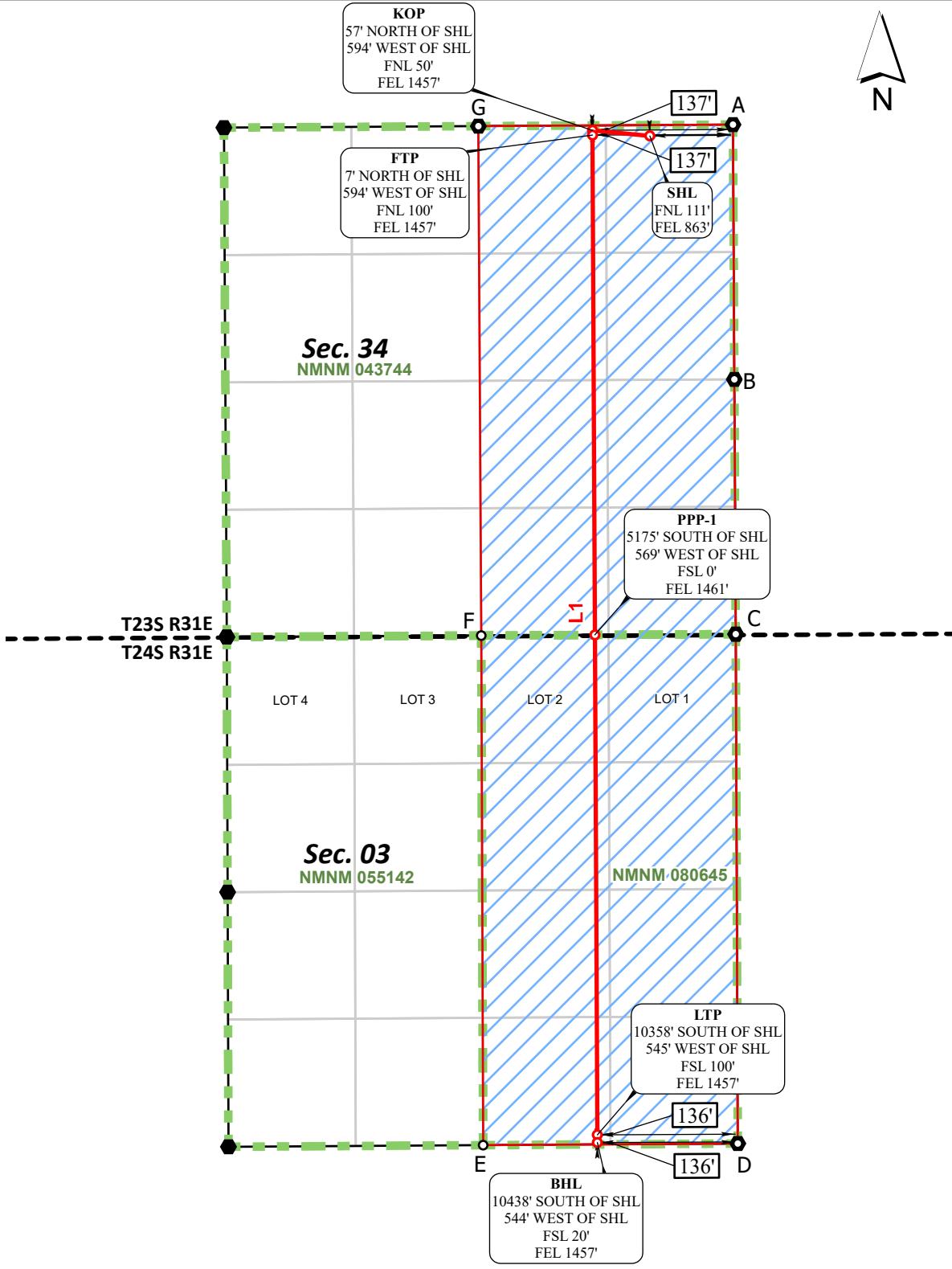
KOP (NAD83) X:717978.63' / Y:461720.51' LAT:32.26805150 / LON:-103.76183651
KOP (NAD27) X:676795.04' / Y:461661.21' LAT:32.26792836 / LON:-103.76135161

FTP (NAD83) X:717978.89' / Y:461670.51' LAT:32.26791406 / LON:-103.76183651
FTP (NAD27) X:676795.31' / Y:461611.21' LAT:32.26779092 / LON:-103.76135161

PPP-1 (NAD83) X:718003.50' / Y:456487.58' LAT:32.25366709 / LON:-103.76184616
PPP-1 (NAD27) X:676819.76' / Y:456428.42' LAT:32.25354388 / LON:-103.76136184

LTP (NAD83) X:718028.11' / Y:451304.60' LAT:32.23941999 / LON:-103.76185578
LTP (NAD27) X:676844.19' / Y:451245.57' LAT:32.23929666 / LON:-103.76137213

BHL (NAD83) X:718028.44' / Y:451224.61' LAT:32.23920009 / LON:-103.76185611
BHL (NAD27) X:676844.51' / Y:451165.57' LAT:32.23907676 / LON:-103.76137247



Drill Line Events      Section Corners      Drill Line      Dimension Lines      Federal Leases      HSU      HSU Corners  
All bearings and coordinates refer to New Mexico State Plane Coordinate System, East Zone, U.S. Survey Feet.

Distances/areas relative to NAD 83 grid measurements. Combined Scale Factor: 0.99978064 and a Convergence Angle: 0.303074914°

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:** 0 6 / 2 3 / 2 5

**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:** PLATINUM 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: 

Printed Name: **Sara Guthrie**

Title: **Regulatory Advisor**

E-mail Address: **sara\_guthrie@oxy.com**

Date: **6/23/2025**

Phone: **713-497-2851**

**OIL CONSERVATION DIVISION**

**(Only applicable when submitted as a standalone form)**

Approved By:

Title:

Approval Date:

Conditions of Approval:

## III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
PLATINUM MDP1 34_3 FED COM 11H	Pending	C-34-23S-31E	124' FNL 1712' FWL	1600	2275	3375
PLATINUM MDP1 34_3 FED COM 12H	Pending	C-34-23S-31E	125' FNL 1772' FWL	2330	9500	5750
PLATINUM MDP1 34_3 FED COM 21H	Pending	C-34-23S-31E	124' FNL 1682' FWL	2330	9500	5750
PLATINUM MDP1 34_3 FED COM 22H	Pending	C-34-23S-31E	125' FNL 1742' FWL	2330	9500	5750
PLATINUM MDP1 34_3 FED COM 41H	Pending	C-34-23S-31E	125' FNL 1832' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 42H	Pending	C-34-23S-31E	250' FNL 1831' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 43H	Pending	C-34-23S-31E	1177' FNL 2477' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 44H	Pending	A-34-23S-31E	111' FNL 863' FEL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 45H	Pending	C-34-23S-31E	1177' FNL 2537' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 51H	Pending	C-34-23S-31E	250' FNL 1801' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 52H	Pending	C-34-23S-31E	125' FNL 1862' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 53H	Pending	C-34-23S-31E	250' FNL 1861' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 54H	Pending	C-34-23S-31E	1177' FNL 2507' FWL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 55H	Pending	A-34-23S-31E	111' FNL 828' FEL	2240	11300	10000
PLATINUM MDP1 34_3 FED COM 71H	Pending	C-34-23S-31E	249' FNL 1681' FWL	2160	3600	3350
PLATINUM MDP1 34_3 FED COM 72H	Pending	C-34-23S-31E	249' FNL 1711' FWL	2160	3600	3350
PLATINUM MDP1 34_3 FED COM 73H	Pending	C-34-23S-31E	249' FNL 1741' FWL	2160	3600	3350
PLATINUM MDP1 34_3 FED COM 74H	Pending	H-34-23S-31E	1330' FNL 927' FEL	2160	3600	3350
PLATINUM MDP1 34_3 FED COM 75H	Pending	H-34-23S-31E	1330' FNL 897' FEL	2160	3600	3350
PLATINUM MDP1 34_3 FED COM 76H	Pending	H-34-23S-31E	1330' FNL 867' FEL	2160	3600	3350

## V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
PLATINUM MDP1 34_3 FED COM 11H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 12H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 21H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 22H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 41H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 42H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 43H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 44H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 45H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 51H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 52H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 53H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 54H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 55H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 71H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 72H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 73H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 74H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 75H	Pending	TBD	TBD	TBD	TBD	TBD
PLATINUM MDP1 34_3 FED COM 76H	Pending	TBD	TBD	TBD	TBD	TBD

Central Delivery Point Name : PLATINUM CTB

#### **Part VI. Separation Equipment**

Operator will size the flowback separator to handle 11,000 Bbls of fluid and over 10MMscfd. Each separator is rated to 1440psig, 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

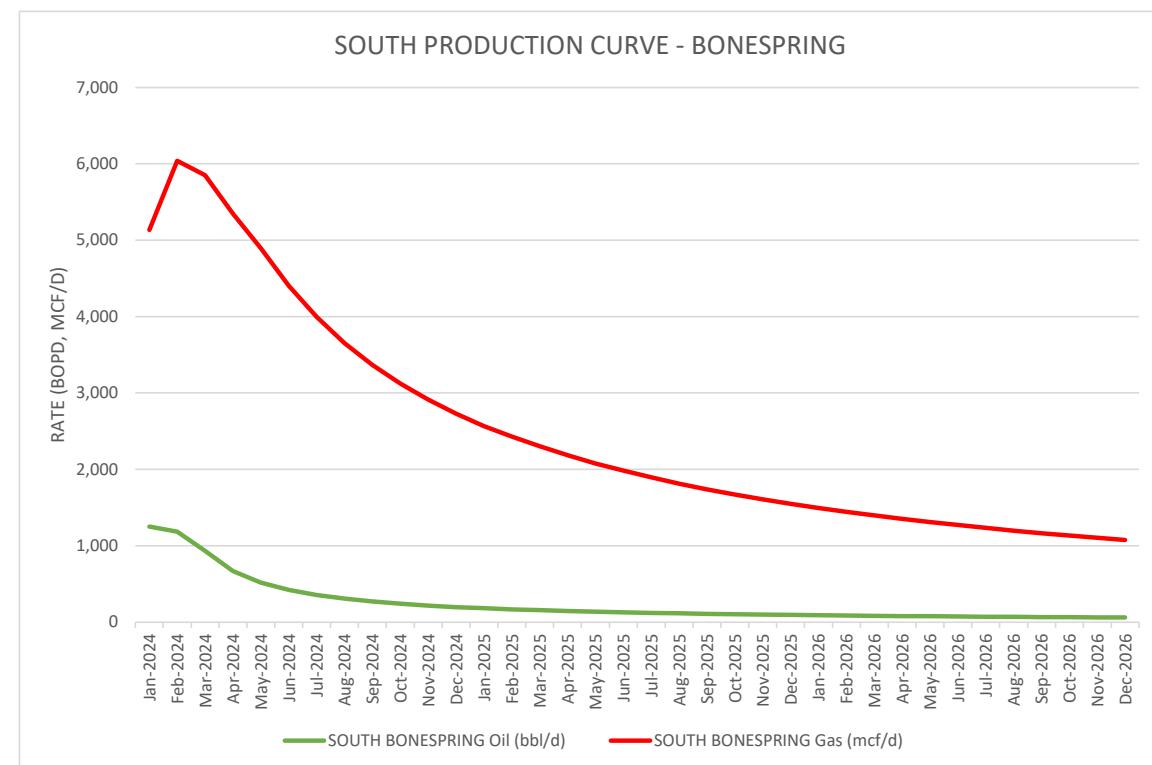
#### Compressed Natural Gas – On lease

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

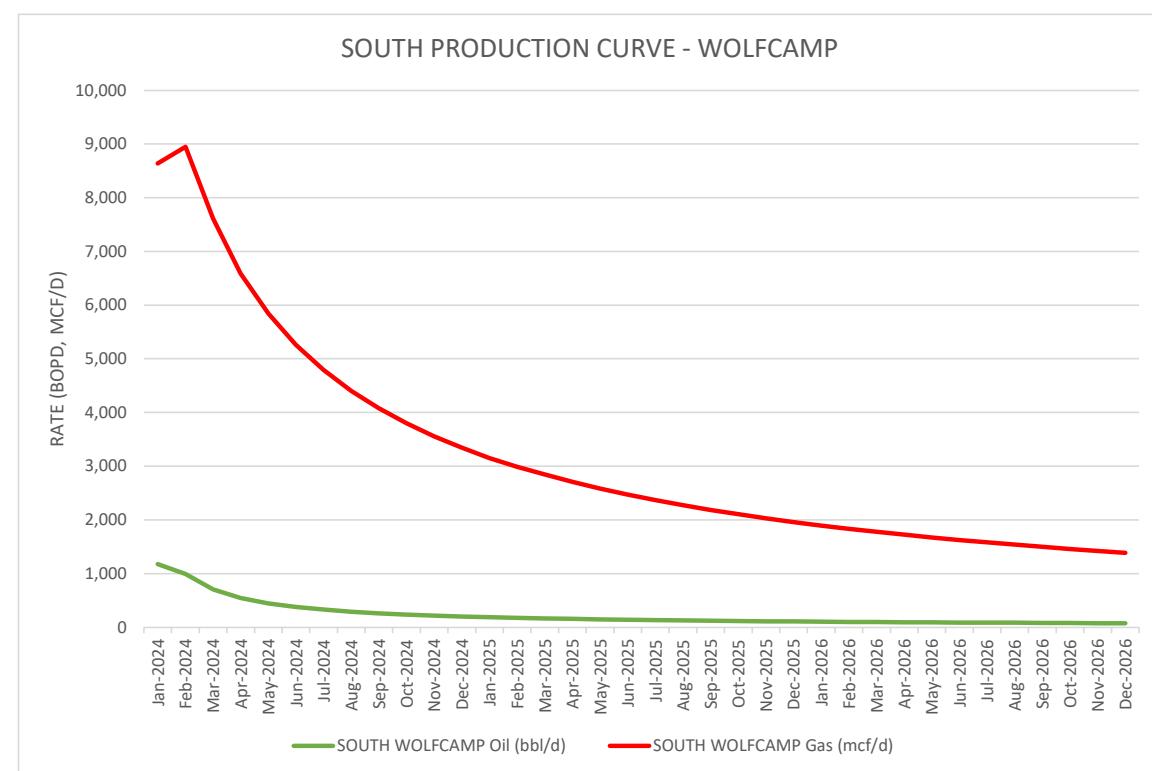
#### NGL Removal – On lease

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



SOUTH WOLFCAMP		
	Oil (bbl/d)	Gas (mcf/d)
Jan-2024	1,178	8,636
Feb-2024	995	8,951
Mar-2024	706	7,614
Apr-2024	544	6,588
May-2024	445	5,841
Jun-2024	377	5,261
Jul-2024	328	4,794
Aug-2024	291	4,402
Sep-2024	261	4,076
Oct-2024	238	3,797
Nov-2024	218	3,555
Dec-2024	201	3,343
Jan-2025	187	3,152
Feb-2025	175	2,990
Mar-2025	165	2,844
Apr-2025	156	2,708
May-2025	148	2,584
Jun-2025	140	2,471
Jul-2025	133	2,368
Aug-2025	127	2,272
Sep-2025	122	2,184
Oct-2025	117	2,104
Nov-2025	112	2,029
Dec-2025	108	1,959
Jan-2026	104	1,893
Feb-2026	101	1,834
Mar-2026	97	1,778
Apr-2026	94	1,725
May-2026	91	1,674
Jun-2026	89	1,626
Jul-2026	86	1,581
Aug-2026	84	1,538
Sep-2026	81	1,498
Oct-2026	79	1,460
Nov-2026	77	1,423
Dec-2026	75	1,389



# Oxy USA Inc. - PLATINUM MDP1 34\_3 FED COM 44H

## Drill Plan

### 1. Geologic Formations

TVD of Target (ft):	12331	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	22630	Deepest Expected Fresh Water (ft):	647

### Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	647	647	
Salado	970	970	Salt
Castile	2894	2894	Salt
Delaware	4358	4358	Oil/Gas/Brine
Bell Canyon	4385	4385	Oil/Gas/Brine
Cherry Canyon	5283	5283	Oil/Gas/Brine
Brushy Canyon	6624	6624	Losses
Bone Spring	8207	8207	Oil/Gas
Bone Spring 1st	9266	9263	Oil/Gas
Bone Spring 2nd	9853	9842	Oil/Gas
Bone Spring 3rd	11147	11116	Oil/Gas
Wolfcamp	11598	11560	Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

### 2. Casing Program

Section	Hole Size (in)	MD		TVD		Csg. OD (in)	Csg Wt. (ppf)	Grade	Conn.
		From (ft)	To (ft)	From (ft)	To (ft)				
Surface	17.5	0	707	0	707	13.375	54.5	J-55	BTC
Salt	12.25	0	4358	0	4358	10.75	45.5	L-80 HC	BTC-SC
Intermediate	9.875	0	12051	0	12000	7.625	26.4	L-80 HC	BTC
Production	6.75	0	22630	0	12331	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?	Y
If not provide justification (loading assumptions, casing design criteria).	
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 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	Y
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 <sup>3</sup> /ft)	Density (lb/gal)	Excess:	TOC	Placement	Description
Surface	1	Surface - Tail	739	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	85	1.33	14.8	20%	3,858	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	611	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	695	1.68	13.2	5%	6,874	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	460	1.71	13.3	25%	3,858	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	627	1.84	13.3	25%	11,551	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:	TVD Depth (ft) per Section:	
12.25" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	4358	
		5M	Blind Ram	✓	250 psi / 5000 psi		
			Pipe Ram				
			Double Ram	✓			
		Other*					
9.875" Hole	13-5/8"	5M	Annular	✓	70% of working pressure	12000	
		5M	Blind Ram	✓	250 psi / 5000 psi		
			Pipe Ram				
			Double Ram	✓			
		Other*					
6.75" Hole	13-5/8"	5M	Annular	✓	100% of working pressure	12331	
		10M	Blind Ram	✓	250 psi / 10000 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 manifold.

**5M Annular BOP Request**

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

	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.
<input checked="" type="checkbox"/>	Are anchors required by manufacturer?

**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		Depth - TVD		Type	Weight (ppg)	Viscosity	Water Loss
	From (ft)	To (ft)	From (ft)	To (ft)				
Surface	0	707	0	707	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	707	4358	707	4358	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4358	12051	4358	12000	Water-Based or Oil-Based Mud	8.0 - 10.0	38-50	N/C
Production	12051	22630	12000	12331	Water-Based or Oil-Based Mud	9.5 - 13.5	38-50	N/C

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

What will be used to monitor the 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	8657 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	179°F

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

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

N	H2S is present
Y	H2S Plan attached

## 8. Other facets of operation

Will the well be drilled with a walking/skidding operation? If yes, describe.	Yes/No
We plan to drill the 2 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

**Total Estimated Cuttings Volume: 1940 bbls**

**OXY USA Inc**  
**APD ATTACHMENT: SPUDDER RIG DATA**

**OPERATOR NAME / NUMBER: OXY USA Inc**

**1. SUMMARY OF REQUEST:**

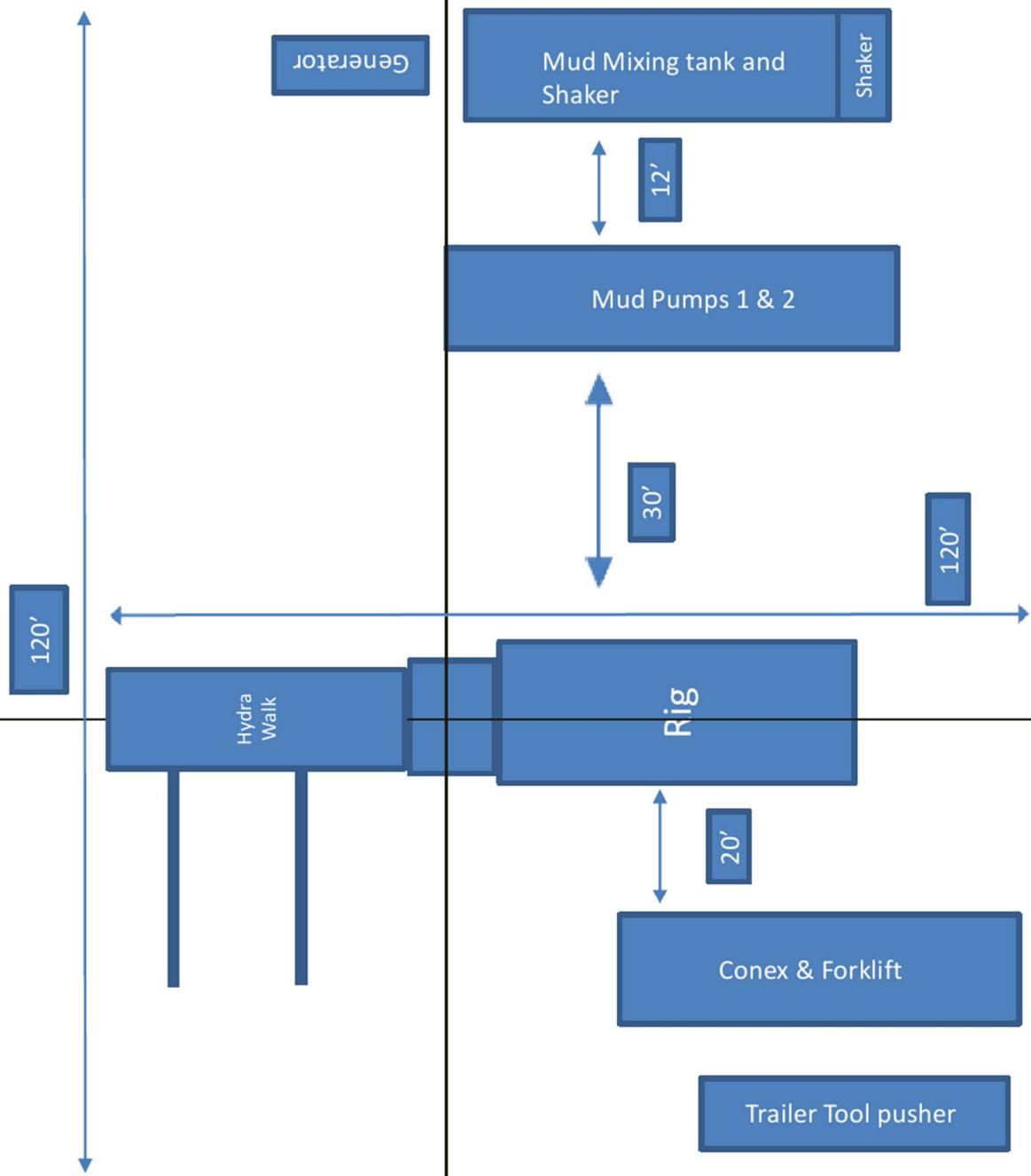
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

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

**2. Description of Operations**

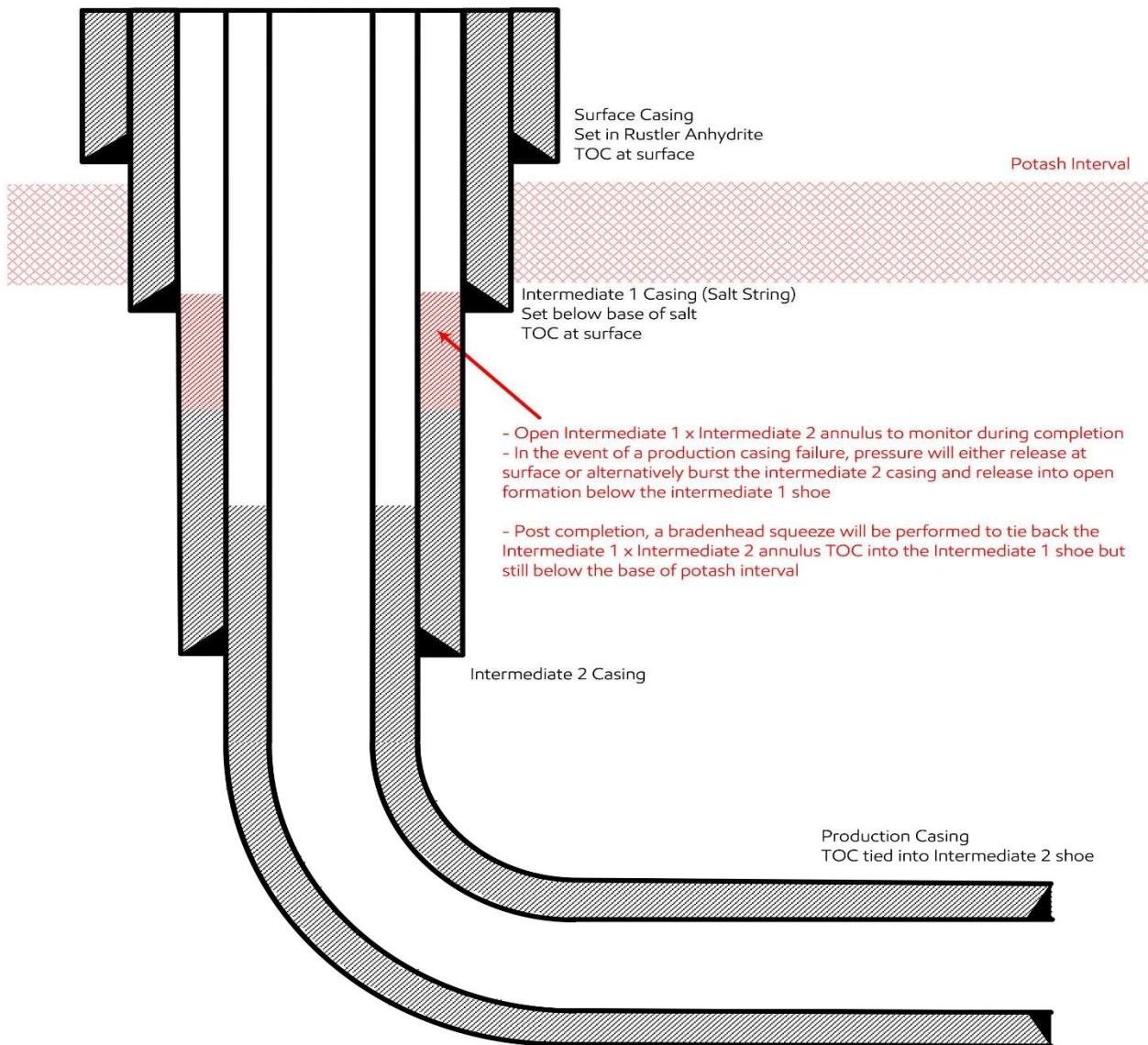
1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
  - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR part 3170 Subpart 3172, all COAs and NMOCD regulations).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

## Spudder Rig Layout



Revision Date – May 21, 2024

## 4-String Design – Open Int 1 x Int 2 Annulus

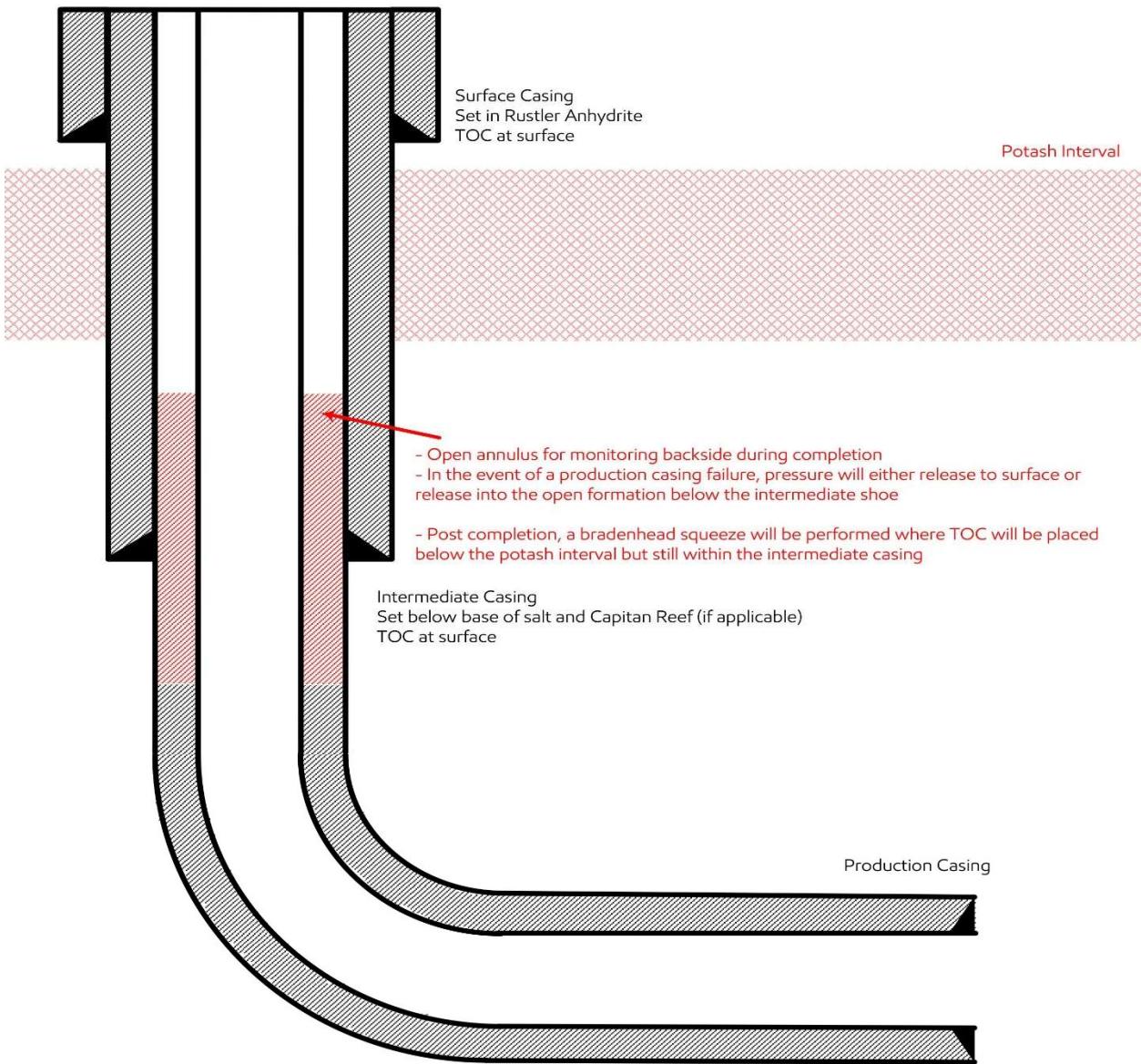
**Update May 2024:**

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze to be completed within 180days to tie back TOC to salt string at least 500ft but with top below Marker Bed 126
- 4) Production cement to be tied back no less than 500ft inside previous casing shoe
- 5) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that  $SF > 1.0$ ; Anti-Collision Reports will be provided with APD Packages for review where  $SF < 1.5$  against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

Revision Date – May 21, 2024

## 3-String Design – Open Production Casing Annulus



### Update May 2024:

OXY is aware of the R111-Q update and will comply with these requirements including (but not limited to):

- 1) Alignment with KPLA requirements per schematic above, leaving open annulus for pressure monitoring during frac and utilizing new casing that meets API standards
- 2) Contingency plans in place to divert formation fluids away from salt interval in event of production casing failure
- 3) Bradenhead squeeze for Production cement to be completed within 180days to tie back TOC to previous casing string at least 500ft but with top below Marker Bed 126
- 4) While drilling salt interval, separation distance to any active/inactive producing offset well will be ensured such that  $SF > 1.0$ ; Anti-Collision Reports will be provided with APD Packages for review where  $SF < 1.5$  against any applicable offset well, or where center-to-center separation against a blind or inclination only surveyed offset well is less than 500ft

## 5M Annular BOP Variance Request

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

### Oxy Well Control Plan

#### A. Component and Preventer Compatibility Table

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

**Pilot hole and Lateral sections, 10M requirement**

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

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

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

#### B. Well Control Procedures

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

##### General Procedure While Drilling

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

#### General Procedure While Tripping

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

#### General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA thru Stack

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

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

## **Bradenhead Cement CBL Variance Request**

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

### **Three string wells:**

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

### **Four string wells:**

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

## Offline Cementing Variance Request

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

### 1. Cement Program

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

### 2. Offline Cementing Procedure

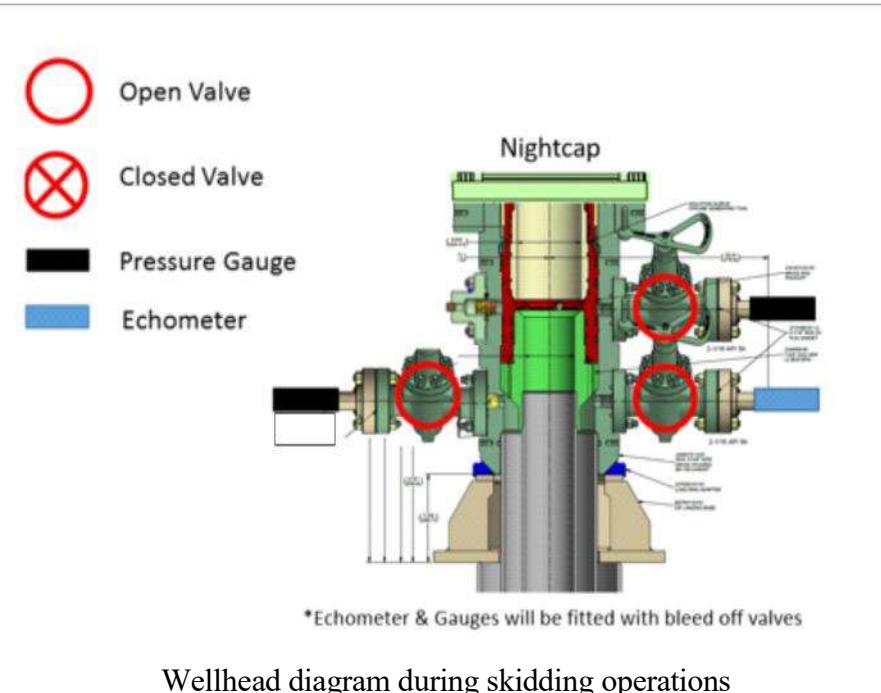
The operational sequence will be as follows:

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

Pressure ratings of wellhead components and valves is 5,000 psi

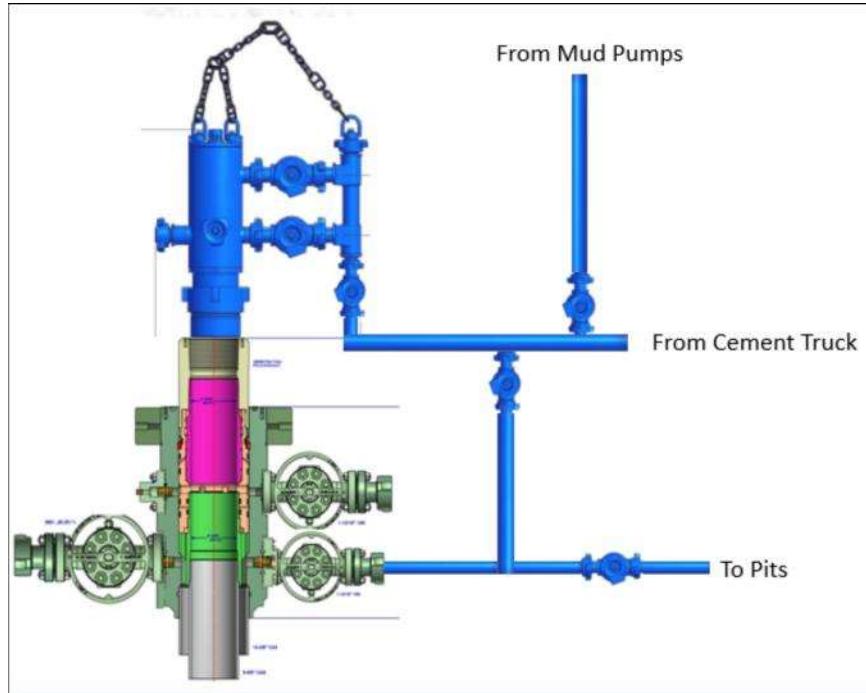
Annular packoff with both external and internal seals





Wellhead diagram during skidding operations

5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
  - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50 psi compressive strength if cannot be verified.
6. Skid rig to next well on pad.
7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or 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 3<sup>rd</sup> 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.

## BOP Break Testing Request

OXY requests permission to adjust the BOP break testing requirements as per the agreement reached with OXY/BLM on April 4th, 2025.

**BOPE Break Testing is ONLY permitted for 5M BOPE or less (utilizing a 10M BOPE system.)**  
**Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.**

BOP break test for the **intermediate or production** section under the following conditions:

- After a full BOP test is conducted.
- When skidding to drill an intermediate or production section which does not penetrate the deeper than the Wolf Camp formation (<5M).
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 3 CFR part 3170 Subpart 3172
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- In the event break testing is not utilized, then a full BOPE test would be conducted.
- 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

### **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 would perform BOP break testing on multi-well pads where multiple intermediate or production sections can be drilled and cased within the 21-day BOP test window
- 2) 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
- 3) The BOP is then lifted and removed from the wellhead by the hydraulic winch system
- 4) After skidding to the next well, the BOP is moved to the wellhead by the hydraulic winch system and installed
- 5) The choke line and kill line are reconnected
- 6) A test plug is installed in the wellhead with a joint of drill pipe and the internal parts of the check valve are removed
- 7) A shell test is performed against the upper pipe rams testing all three breaks
- 8) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 9) 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)
- 10) Perform a function test of components not pressure tested to include the lower pipe rams, the blind rams and the annular
- 11) 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
- 12) A second break test would only be done if the third hole section could be completed within the 21-day BOP test window
- 13) If a second break test is performed, additional components that were not tested on the initial break test will be tested on this break test

### Notes:

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

## Summary

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

**OXY**

**PRD NM DIRECTIONAL PLANS (NAD 1983)**

**PLATINUM MDP1 34-3 FED COM**

**Platinum MDP1 34\_3 Fed Com 44H**

**Original Hole**

**Plan: Permitting Plan**

# **Standard Planning Report**

**03 July, 2024**

# OXY

## Planning Report

<b>Database:</b> <b>Company:</b> <b>Project:</b> <b>Site:</b> <b>Well:</b> <b>Wellbore:</b> <b>Design:</b>	HOPSP ENGINEERING DESIGNS PRD NM DIRECTIONAL PLANS (NAD 1983) PLATINUM MDP1 34-3 FED COM Platinum MDP1 34_3 Fed Com 44H Original Hole Permitting Plan	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Platinum MDP1 34_3 Fed Com 44H RKB=25' @ 3468.00ft RKB=25' @ 3468.00ft Grid Minimum Curvature
--	---	--	--

<b>Project</b>	PRD NM DIRECTIONAL PLANS (NAD 1983)	
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>
<b>Geo Datum:</b>	North American Datum 1983	Mean Sea Level
<b>Map Zone:</b>	New Mexico Eastern Zone	Using geodetic scale factor

<b>Site</b>	PLATINUM MDP1 34-3 FED COM			
<b>Site Position:</b> <b>From:</b> Map <b>Position Uncertainty:</b>	44.72 ft	<b>Northing:</b> <b>Easting:</b> <b>Slot Radius:</b>	461,352.44 usft 714,923.95 usft 13.200 in	<b>Latitude:</b> <b>Longitude:</b>

<b>Well</b>	Platinum MDP1 34_3 Fed Com 44H			
<b>Well Position</b>	+N/S +E/W	0.00 ft 0.00 ft	<b>Northing:</b> <b>Easting:</b>	461,663.01 usf 718,572.88 usf
<b>Position Uncertainty</b>	2.00 ft		<b>Wellhead Elevation:</b>	0.00 ft
<b>Grid Convergence:</b>	0.31 °			<b>Latitude:</b> <b>Longitude:</b>
				32.267084 -103.771726
<b>Ground Level:</b>				3,443.00 ft

<b>Wellbore</b>	Original Hole				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	HDGM_FILE	12/18/2018	6.80	59.98	48,009.5000000

<b>Design</b>	Permitting Plan			
<b>Audit Notes:</b>				
<b>Version:</b>		<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>
				0.00
<b>Vertical Section:</b>		<b>Depth From (TVD)</b> (ft)	<b>+N/S</b> (ft)	<b>+E/W</b> (ft)
		0.00	0.00	0.00
				<b>Direction</b> (°)
				182.99

<b>Plan Survey Tool Program</b>	<b>Date</b>	7/3/2024		
<b>Depth From</b> (ft)	<b>Depth To</b> (ft)	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1 0.00	22,629.71	Permitting Plan (Original Hole)	B001Mc_MWD+HRGM_R5 MWD+HRGM	

<b>Plan Sections</b>											
<b>Measured Depth</b> (ft)	<b>Inclination</b> (°)	<b>Azimuth</b> (°)	<b>Vertical Depth</b> (ft)	<b>+N/S</b> (ft)	<b>+E/W</b> (ft)	<b>Dogleg Rate</b> (°/100ft)	<b>Build Rate</b> (°/100ft)	<b>Turn Rate</b> (°/100ft)	<b>TFO</b> (°)	<b>Target</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8,438.00	0.00	0.00	8,438.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,438.19	10.00	276.50	9,433.12	9.86	-86.52	1.00	1.00	0.00	276.50		
11,795.98	10.00	276.50	11,755.08	56.20	-493.39	0.00	0.00	0.00	0.00		
12,707.71	90.00	179.73	12,331.00	-517.11	-591.54	10.00	8.77	-10.61	-96.67		
22,629.71	90.00	179.73	12,331.00	-10,438.99	-544.47	0.00	0.00	0.00	0.00	PBHL (Platinum)	

**OXY**  
Planning Report

<b>Database:</b> HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Platinum MDP1 34_3 Fed Com 44H
<b>Company:</b> ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3468.00ft
<b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3468.00ft
<b>Site:</b> PLATINUM MDP1 34-3 FED COM	<b>North Reference:</b>	Grid
<b>Well:</b> Platinum MDP1 34_3 Fed Com 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> 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	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	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	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	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	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	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	0.00
2,800.00	0.00	0.00	2,800.00	0.00	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	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OXY**  
Planning Report

<b>Database:</b> HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Platinum MDP1 34_3 Fed Com 44H
<b>Company:</b> ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3468.00ft
<b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3468.00ft
<b>Site:</b> PLATINUM MDP1 34-3 FED COM	<b>North Reference:</b>	Grid
<b>Well:</b> Platinum MDP1 34_3 Fed Com 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> 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)
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,438.00	0.00	0.00	8,438.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.62	276.50	8,500.00	0.04	-0.33	-0.02	1.00	1.00	0.00
8,600.00	1.62	276.50	8,599.98	0.26	-2.28	-0.14	1.00	1.00	0.00
8,700.00	2.62	276.50	8,699.91	0.68	-5.95	-0.37	1.00	1.00	0.00
8,800.00	3.62	276.50	8,799.76	1.29	-11.36	-0.70	1.00	1.00	0.00
8,900.00	4.62	276.50	8,899.50	2.11	-18.50	-1.14	1.00	1.00	0.00
9,000.00	5.62	276.50	8,999.10	3.12	-27.36	-1.69	1.00	1.00	0.00
9,100.00	6.62	276.50	9,098.53	4.32	-37.96	-2.34	1.00	1.00	0.00
9,200.00	7.62	276.50	9,197.76	5.73	-50.27	-3.10	1.00	1.00	0.00
9,300.00	8.62	276.50	9,296.75	7.33	-64.30	-3.97	1.00	1.00	0.00
9,400.00	9.62	276.50	9,395.49	9.12	-80.05	-4.94	1.00	1.00	0.00
9,438.19	10.00	276.50	9,433.12	9.86	-86.52	-5.34	1.00	1.00	0.00
9,500.00	10.00	276.50	9,493.99	11.07	-97.18	-5.99	0.00	0.00	0.00
9,600.00	10.00	276.50	9,592.47	13.04	-114.44	-7.06	0.00	0.00	0.00
9,700.00	10.00	276.50	9,690.95	15.00	-131.70	-8.12	0.00	0.00	0.00
9,800.00	10.00	276.50	9,789.43	16.97	-148.95	-9.19	0.00	0.00	0.00
9,900.00	10.00	276.50	9,887.91	18.93	-166.21	-10.25	0.00	0.00	0.00
10,000.00	10.00	276.50	9,986.39	20.90	-183.47	-11.31	0.00	0.00	0.00
10,100.00	10.00	276.50	10,084.87	22.87	-200.72	-12.38	0.00	0.00	0.00
10,200.00	10.00	276.50	10,183.35	24.83	-217.98	-13.44	0.00	0.00	0.00
10,300.00	10.00	276.50	10,281.83	26.80	-235.24	-14.51	0.00	0.00	0.00
10,400.00	10.00	276.50	10,380.31	28.76	-252.49	-15.57	0.00	0.00	0.00
10,500.00	10.00	276.50	10,478.79	30.73	-269.75	-16.64	0.00	0.00	0.00
10,600.00	10.00	276.50	10,577.27	32.69	-287.01	-17.70	0.00	0.00	0.00
10,700.00	10.00	276.50	10,675.75	34.66	-304.26	-18.76	0.00	0.00	0.00

**OXY**  
Planning Report

<b>Database:</b> HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Platinum MDP1 34_3 Fed Com 44H
<b>Company:</b> ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3468.00ft
<b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3468.00ft
<b>Site:</b> PLATINUM MDP1 34-3 FED COM	<b>North Reference:</b>	Grid
<b>Well:</b> Platinum MDP1 34_3 Fed Com 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> 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)
10,800.00	10.00	276.50	10,774.23	36.63	-321.52	-19.83	0.00	0.00	0.00
10,900.00	10.00	276.50	10,872.71	38.59	-338.78	-20.89	0.00	0.00	0.00
11,000.00	10.00	276.50	10,971.19	40.56	-356.03	-21.96	0.00	0.00	0.00
11,100.00	10.00	276.50	11,069.67	42.52	-373.29	-23.02	0.00	0.00	0.00
11,200.00	10.00	276.50	11,168.15	44.49	-390.55	-24.09	0.00	0.00	0.00
11,300.00	10.00	276.50	11,266.63	46.45	-407.80	-25.15	0.00	0.00	0.00
11,400.00	10.00	276.50	11,365.11	48.42	-425.06	-26.21	0.00	0.00	0.00
11,500.00	10.00	276.50	11,463.59	50.39	-442.32	-27.28	0.00	0.00	0.00
11,600.00	10.00	276.50	11,562.07	52.35	-459.57	-28.34	0.00	0.00	0.00
11,700.00	10.00	276.50	11,660.55	54.32	-476.83	-29.41	0.00	0.00	0.00
11,795.98	10.00	276.50	11,755.08	56.20	-493.39	-30.43	0.00	0.00	0.00
11,800.00	9.96	274.19	11,759.03	56.27	-494.08	-30.46	10.00	-0.96	-57.42
11,900.00	13.53	226.44	11,857.14	48.82	-511.23	-22.13	10.00	3.56	-47.75
12,000.00	21.56	206.04	11,952.50	24.20	-527.81	3.33	10.00	8.03	-20.40
12,100.00	30.73	196.86	12,042.21	-16.86	-543.33	45.14	10.00	9.17	-9.18
12,200.00	40.27	191.66	12,123.55	-73.11	-557.31	102.04	10.00	9.54	-5.20
12,300.00	49.97	188.19	12,194.04	-142.83	-569.32	172.29	10.00	9.70	-3.47
12,400.00	59.74	185.59	12,251.55	-223.91	-579.01	253.76	10.00	9.77	-2.60
12,500.00	69.55	183.47	12,294.32	-313.88	-586.08	343.98	10.00	9.82	-2.12
12,600.00	79.39	181.61	12,321.06	-410.02	-590.30	440.21	10.00	9.84	-1.86
12,700.00	89.24	179.86	12,330.95	-509.39	-591.56	539.51	10.00	9.85	-1.75
12,707.71	90.00	179.73	12,331.00	-517.11	-591.54	547.22	10.00	9.85	-1.73
12,800.00	90.00	179.73	12,331.00	-609.39	-591.10	639.35	0.00	0.00	0.00
12,900.00	90.00	179.73	12,331.00	-709.39	-590.62	739.19	0.00	0.00	0.00
13,000.00	90.00	179.73	12,331.00	-809.39	-590.15	839.03	0.00	0.00	0.00
13,100.00	90.00	179.73	12,331.00	-909.39	-589.67	938.87	0.00	0.00	0.00
13,200.00	90.00	179.73	12,331.00	-1,009.39	-589.20	1,038.71	0.00	0.00	0.00
13,300.00	90.00	179.73	12,331.00	-1,109.38	-588.73	1,138.54	0.00	0.00	0.00
13,400.00	90.00	179.73	12,331.00	-1,209.38	-588.25	1,238.38	0.00	0.00	0.00
13,500.00	90.00	179.73	12,331.00	-1,309.38	-587.78	1,338.22	0.00	0.00	0.00
13,600.00	90.00	179.73	12,331.00	-1,409.38	-587.30	1,438.06	0.00	0.00	0.00
13,700.00	90.00	179.73	12,331.00	-1,509.38	-586.83	1,537.90	0.00	0.00	0.00
13,800.00	90.00	179.73	12,331.00	-1,609.38	-586.35	1,637.74	0.00	0.00	0.00
13,900.00	90.00	179.73	12,331.00	-1,709.38	-585.88	1,737.57	0.00	0.00	0.00
14,000.00	90.00	179.73	12,331.00	-1,809.38	-585.41	1,837.41	0.00	0.00	0.00
14,100.00	90.00	179.73	12,331.00	-1,909.38	-584.93	1,937.25	0.00	0.00	0.00
14,200.00	90.00	179.73	12,331.00	-2,009.37	-584.46	2,037.09	0.00	0.00	0.00
14,300.00	90.00	179.73	12,331.00	-2,109.37	-583.98	2,136.93	0.00	0.00	0.00
14,400.00	90.00	179.73	12,331.00	-2,209.37	-583.51	2,236.77	0.00	0.00	0.00
14,500.00	90.00	179.73	12,331.00	-2,309.37	-583.03	2,336.60	0.00	0.00	0.00
14,600.00	90.00	179.73	12,331.00	-2,409.37	-582.56	2,436.44	0.00	0.00	0.00
14,700.00	90.00	179.73	12,331.00	-2,509.37	-582.09	2,536.28	0.00	0.00	0.00
14,800.00	90.00	179.73	12,331.00	-2,609.37	-581.61	2,636.12	0.00	0.00	0.00
14,900.00	90.00	179.73	12,331.00	-2,709.37	-581.14	2,735.96	0.00	0.00	0.00
15,000.00	90.00	179.73	12,331.00	-2,809.37	-580.66	2,835.80	0.00	0.00	0.00
15,100.00	90.00	179.73	12,331.00	-2,909.36	-580.19	2,935.64	0.00	0.00	0.00
15,200.00	90.00	179.73	12,331.00	-3,009.36	-579.71	3,035.47	0.00	0.00	0.00
15,300.00	90.00	179.73	12,331.00	-3,109.36	-579.24	3,135.31	0.00	0.00	0.00
15,400.00	90.00	179.73	12,331.00	-3,209.36	-578.76	3,235.15	0.00	0.00	0.00
15,500.00	90.00	179.73	12,331.00	-3,309.36	-578.29	3,334.99	0.00	0.00	0.00
15,600.00	90.00	179.73	12,331.00	-3,409.36	-577.82	3,434.83	0.00	0.00	0.00
15,700.00	90.00	179.73	12,331.00	-3,509.36	-577.34	3,534.67	0.00	0.00	0.00
15,800.00	90.00	179.73	12,331.00	-3,609.36	-576.87	3,634.50	0.00	0.00	0.00
15,900.00	90.00	179.73	12,331.00	-3,709.36	-576.39	3,734.34	0.00	0.00	0.00
16,000.00	90.00	179.73	12,331.00	-3,809.35	-575.92	3,834.18	0.00	0.00	0.00

**OXY**  
Planning Report

<b>Database:</b> HOPSPP	<b>Local Co-ordinate Reference:</b>	Well Platinum MDP1 34_3 Fed Com 44H
<b>Company:</b> ENGINEERING DESIGNS	<b>TVD Reference:</b>	RKB=25' @ 3468.00ft
<b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>MD Reference:</b>	RKB=25' @ 3468.00ft
<b>Site:</b> PLATINUM MDP1 34-3 FED COM	<b>North Reference:</b>	Grid
<b>Well:</b> Platinum MDP1 34_3 Fed Com 44H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> 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	90.00	179.73	12,331.00	-3,909.35	-575.44	3,934.02	0.00	0.00	0.00
16,200.00	90.00	179.73	12,331.00	-4,009.35	-574.97	4,033.86	0.00	0.00	0.00
16,300.00	90.00	179.73	12,331.00	-4,109.35	-574.50	4,133.70	0.00	0.00	0.00
16,400.00	90.00	179.73	12,331.00	-4,209.35	-574.02	4,233.54	0.00	0.00	0.00
16,500.00	90.00	179.73	12,331.00	-4,309.35	-573.55	4,333.37	0.00	0.00	0.00
16,600.00	90.00	179.73	12,331.00	-4,409.35	-573.07	4,433.21	0.00	0.00	0.00
16,700.00	90.00	179.73	12,331.00	-4,509.35	-572.60	4,533.05	0.00	0.00	0.00
16,800.00	90.00	179.73	12,331.00	-4,609.35	-572.12	4,632.89	0.00	0.00	0.00
16,900.00	90.00	179.73	12,331.00	-4,709.34	-571.65	4,732.73	0.00	0.00	0.00
17,000.00	90.00	179.73	12,331.00	-4,809.34	-571.18	4,832.57	0.00	0.00	0.00
17,100.00	90.00	179.73	12,331.00	-4,909.34	-570.70	4,932.40	0.00	0.00	0.00
17,200.00	90.00	179.73	12,331.00	-5,009.34	-570.23	5,032.24	0.00	0.00	0.00
17,300.00	90.00	179.73	12,331.00	-5,109.34	-569.75	5,132.08	0.00	0.00	0.00
17,400.00	90.00	179.73	12,331.00	-5,209.34	-569.28	5,231.92	0.00	0.00	0.00
17,500.00	90.00	179.73	12,331.00	-5,309.34	-568.80	5,331.76	0.00	0.00	0.00
17,600.00	90.00	179.73	12,331.00	-5,409.34	-568.33	5,431.60	0.00	0.00	0.00
17,700.00	90.00	179.73	12,331.00	-5,509.34	-567.85	5,531.43	0.00	0.00	0.00
17,800.00	90.00	179.73	12,331.00	-5,609.33	-567.38	5,631.27	0.00	0.00	0.00
17,900.00	90.00	179.73	12,331.00	-5,709.33	-566.91	5,731.11	0.00	0.00	0.00
18,000.00	90.00	179.73	12,331.00	-5,809.33	-566.43	5,830.95	0.00	0.00	0.00
18,100.00	90.00	179.73	12,331.00	-5,909.33	-565.96	5,930.79	0.00	0.00	0.00
18,200.00	90.00	179.73	12,331.00	-6,009.33	-565.48	6,030.63	0.00	0.00	0.00
18,300.00	90.00	179.73	12,331.00	-6,109.33	-565.01	6,130.47	0.00	0.00	0.00
18,400.00	90.00	179.73	12,331.00	-6,209.33	-564.53	6,230.30	0.00	0.00	0.00
18,500.00	90.00	179.73	12,331.00	-6,309.33	-564.06	6,330.14	0.00	0.00	0.00
18,600.00	90.00	179.73	12,331.00	-6,409.33	-563.59	6,429.98	0.00	0.00	0.00
18,700.00	90.00	179.73	12,331.00	-6,509.32	-563.11	6,529.82	0.00	0.00	0.00
18,800.00	90.00	179.73	12,331.00	-6,609.32	-562.64	6,629.66	0.00	0.00	0.00
18,900.00	90.00	179.73	12,331.00	-6,709.32	-562.16	6,729.50	0.00	0.00	0.00
19,000.00	90.00	179.73	12,331.00	-6,809.32	-561.69	6,829.33	0.00	0.00	0.00
19,100.00	90.00	179.73	12,331.00	-6,909.32	-561.21	6,929.17	0.00	0.00	0.00
19,200.00	90.00	179.73	12,331.00	-7,009.32	-560.74	7,029.01	0.00	0.00	0.00
19,300.00	90.00	179.73	12,331.00	-7,109.32	-560.27	7,128.85	0.00	0.00	0.00
19,400.00	90.00	179.73	12,331.00	-7,209.32	-559.79	7,228.69	0.00	0.00	0.00
19,500.00	90.00	179.73	12,331.00	-7,309.32	-559.32	7,328.53	0.00	0.00	0.00
19,600.00	90.00	179.73	12,331.00	-7,409.31	-558.84	7,428.36	0.00	0.00	0.00
19,700.00	90.00	179.73	12,331.00	-7,509.31	-558.37	7,528.20	0.00	0.00	0.00
19,800.00	90.00	179.73	12,331.00	-7,609.31	-557.89	7,628.04	0.00	0.00	0.00
19,900.00	90.00	179.73	12,331.00	-7,709.31	-557.42	7,727.88	0.00	0.00	0.00
20,000.00	90.00	179.73	12,331.00	-7,809.31	-556.94	7,827.72	0.00	0.00	0.00
20,100.00	90.00	179.73	12,331.00	-7,909.31	-556.47	7,927.56	0.00	0.00	0.00
20,200.00	90.00	179.73	12,331.00	-8,009.31	-556.00	8,027.40	0.00	0.00	0.00
20,300.00	90.00	179.73	12,331.00	-8,109.31	-555.52	8,127.23	0.00	0.00	0.00
20,400.00	90.00	179.73	12,331.00	-8,209.31	-555.05	8,227.07	0.00	0.00	0.00
20,500.00	90.00	179.73	12,331.00	-8,309.30	-554.57	8,326.91	0.00	0.00	0.00
20,600.00	90.00	179.73	12,331.00	-8,409.30	-554.10	8,426.75	0.00	0.00	0.00
20,700.00	90.00	179.73	12,331.00	-8,509.30	-553.62	8,526.59	0.00	0.00	0.00
20,800.00	90.00	179.73	12,331.00	-8,609.30	-553.15	8,626.43	0.00	0.00	0.00
20,900.00	90.00	179.73	12,331.00	-8,709.30	-552.68	8,726.26	0.00	0.00	0.00
21,000.00	90.00	179.73	12,331.00	-8,809.30	-552.20	8,826.10	0.00	0.00	0.00
21,100.00	90.00	179.73	12,331.00	-8,909.30	-551.73	8,925.94	0.00	0.00	0.00
21,200.00	90.00	179.73	12,331.00	-9,009.30	-551.25	9,025.78	0.00	0.00	0.00
21,300.00	90.00	179.73	12,331.00	-9,109.30	-550.78	9,125.62	0.00	0.00	0.00
21,400.00	90.00	179.73	12,331.00	-9,209.29	-550.30	9,225.46	0.00	0.00	0.00
21,500.00	90.00	179.73	12,331.00	-9,309.29	-549.83	9,325.29	0.00	0.00	0.00

# OXY

## Planning Report

<b>Database:</b> HOPSP COMPANY: ENGINEERING DESIGNS <b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983) <b>Site:</b> PLATINUM MDP1 34-3 FED COM <b>Well:</b> Platinum MDP1 34_3 Fed Com 44H <b>Wellbore:</b> Original Hole <b>Design:</b> Permitting Plan	<b>Local Co-ordinate Reference:</b> <b>TVD Reference:</b> <b>MD Reference:</b> <b>North Reference:</b> <b>Survey Calculation Method:</b>	Well Platinum MDP1 34_3 Fed Com 44H RKB=25' @ 3468.00ft RKB=25' @ 3468.00ft Grid Minimum Curvature
--	--	--

**Planned Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
21,600.00	90.00	179.73	12,331.00	-9,409.29	-549.36	9,425.13	0.00	0.00	0.00
21,700.00	90.00	179.73	12,331.00	-9,509.29	-548.88	9,524.97	0.00	0.00	0.00
21,800.00	90.00	179.73	12,331.00	-9,609.29	-548.41	9,624.81	0.00	0.00	0.00
21,900.00	90.00	179.73	12,331.00	-9,709.29	-547.93	9,724.65	0.00	0.00	0.00
22,000.00	90.00	179.73	12,331.00	-9,809.29	-547.46	9,824.49	0.00	0.00	0.00
22,100.00	90.00	179.73	12,331.00	-9,909.29	-546.98	9,924.33	0.00	0.00	0.00
22,200.00	90.00	179.73	12,331.00	-10,009.28	-546.51	10,024.16	0.00	0.00	0.00
22,300.00	90.00	179.73	12,331.00	-10,109.28	-546.03	10,124.00	0.00	0.00	0.00
22,400.00	90.00	179.73	12,331.00	-10,209.28	-545.56	10,223.84	0.00	0.00	0.00
22,500.00	90.00	179.73	12,331.00	-10,309.28	-545.09	10,323.68	0.00	0.00	0.00
22,600.00	90.00	179.73	12,331.00	-10,409.28	-544.61	10,423.52	0.00	0.00	0.00
22,629.71	90.00	179.73	12,331.00	-10,438.99	-544.47	10,453.18	0.00	0.00	0.00

**Design Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Platinum MDP1 - plan misses target center by 597.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	57.50	-594.28	461,720.51	717,978.63	32.268052	-103.761837
FTP (Platinum MDP1 - plan misses target center by 204.35ft at 12294.69ft MD (12190.60 TVD, -138.82 N, -568.74 E) - Point	0.00	0.00	12,331.00	7.50	-594.02	461,670.51	717,978.89	32.267914	-103.761837
PBHL (Platinum MDP1 - plan hits target center - Point	0.00	0.00	12,331.00	-10,438.99	-544.47	451,224.61	718,028.44	32.239200	-103.761856

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
647.00	647.00	RUSTLER			
970.00	970.00	SALADO			
2,894.00	2,894.00	CASTILE			
4,358.00	4,358.00	DELAWARE			
4,385.00	4,385.00	BELL CANYON			
5,283.00	5,283.00	CHERRY CANYON			
6,624.00	6,624.00	BRUSHY CANYON			
8,207.00	8,207.00	BONE SPRING			
9,265.88	9,263.00	BONE SPRING 1ST			
9,853.38	9,842.00	BONE SPRING 2ND			
11,147.04	11,116.00	BONE SPRING 3RD			
11,597.90	11,560.00	WOLFCAMP			
11,734.98	11,695.00	WOLFCAMP A			

# OXY

## Planning Report

<b>Database:</b> HOPSPP	<b>Local Co-ordinate Reference:</b> TVD Reference:	Well Platinum MDP1 34_3 Fed Com 44H
<b>Company:</b> ENGINEERING DESIGNS	<b>MD Reference:</b>	RKB=25' @ 3468.00ft
<b>Project:</b> PRD NM DIRECTIONAL PLANS (NAD 1983)	<b>North Reference:</b>	RKB=25' @ 3468.00ft
<b>Site:</b> PLATINUM MDP1 34-3 FED COM	<b>Survey Calculation Method:</b>	Grid
<b>Well:</b> Platinum MDP1 34_3 Fed Com 44H		Minimum Curvature
<b>Wellbore:</b> Original Hole		
<b>Design:</b> Permitting Plan		

**Plan Annotations**

Local Coordinates					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
8,438.00	8,438.00	0.00	0.00	Build 1°/100'	
9,438.19	9,433.12	9.86	-86.52	Hold 10° Tangent	
11,795.98	11,755.08	56.20	-493.39	KOP, Build & Turn 10°/100'	
12,707.71	12,331.00	-517.11	-591.54	Landing Point	
22,629.71	12,331.00	-10,438.99	-544.47	TD at 22629.71' MD	

## PECOS DISTRICT

### DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	OXY USA INC.
<b>WELL NAME &amp; NO.:</b>	PLATINUM MDP1 34-3 FEDERAL COM 44H
<b>LOCATION:</b>	SEC34 T23S R31E-NMP
<b>COUNTY:</b>	Eddy County, New Mexico

[Create COAs](#)

<b>H<sub>2</sub>S</b> <input type="checkbox"/> Present	<b>Cave / Karst</b> <input type="checkbox"/> Low	<b>Waste Prevention Rule</b> <input type="checkbox"/> Waste Minimization Plan
<b>Potash</b> <input type="checkbox"/> R-111-Q	<b>R-111-Q Design</b> <input type="checkbox"/> 4-String: Open 1st Int x 2nd Annulus (ICP 2 below Relief Zone)	
<b>Wellhead</b> <input type="checkbox"/> Multibowl  <input checked="" type="checkbox"/> Flex Hose  <input checked="" type="checkbox"/> Break Testing	<b>Casing</b> <input type="checkbox"/> 4-String Well <input type="checkbox"/> Liner <input type="checkbox"/> Fluid <input type="checkbox"/> Casing Clearance	<b>Cementing</b> <input type="checkbox"/> DV Tool <input type="checkbox"/> Bradenhead <input type="checkbox"/> Echometer <input checked="" type="checkbox"/> Offline Cement <input checked="" type="checkbox"/> Open Annulus <input type="checkbox"/> Pilot Hole
<b>Special Requirements</b>		
<input type="checkbox"/> Capitan Reef <input type="checkbox"/> Water Disposal <input checked="" type="checkbox"/> COM <input type="checkbox"/> Unit		

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

***APD is within the R-111-Q defined boundary. Operator must follow all procedures and requirements listed within the updated order.***

#### B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **717** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified

and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.

- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The minimum required fill of cement behind the **10-3/4** inch 1st intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.

- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

3. The minimum required fill of cement behind the **7-5/8** inch 2nd intermediate casing is **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126 (base of the McNutt Potash ore zone.)

- Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office.
- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.
- **A monitored open annulus will be incorporated during completion by leaving the above annulus un-cemented and monitored.** Operator must follow all monitoring requirements listed within R-111-Q. Tieback shall be met within **180 days**.
- Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. **Submit results to the BLM**.
- Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.
- **In the event of a casing failure during completion**, the operator must contact the BLM at engineers (575-706-2779) and inspection staff (575-361-2822 Eddy County).

*FOR INTERMEDIATE 2, KEEP CASING FULL DURING RUN FOR COLLAPSE SF. KEEP HOLE FULL FOR TENSILE SF (BOUYANT OK.) REVIEW EXTERNAL PRESSURE FOR PT*

4. The minimum required fill of cement behind the **5-1/2** inch production casing is **500 feet** into the previous casing but not higher than USGS Marker Bed No. 126 (base of the McNutt Potash ore zone.)

- Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office.

- **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

## C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi**. **Variance is approved to use a 5000 (5M) annular which shall be tested to 3500 (3.5M) psi.**
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
3. Break testing has been approved for this well ONLY on those intervals utilizing a 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.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
  - BOPE Break Testing is ONLY permitted for hole sections with 5M MASP or less.
  - The break test should involve a shell test that includes testing the upper pipe rams as proposed.
  - Variance only pertains to the hole-sections in and shallower than the Wolfcamp formation. Break testing is NOT allowed when planning to penetrate the Penn group.
  - While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle in accordance with API STD 53.
  - Any well control event while drilling require notification to the BLM Petroleum Engineer.
  - A full BOPE test is required prior to drilling the first intermediate section.
  - If a hole section tends to show more background gas than normal, please notify BLM Engineer prior to proceeding with break testing on the next well.

- The BLM PET is to be contacted 4 hours prior to BOPE tests.
  - *Eddy County Petroleum Engineering Inspection Staff: (575) 361-2822*
  - *Lea County Petroleum Engineering Inspection Staff: (575) 689-5981*
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.

## D. SPECIAL REQUIREMENT(S)

### **Communitization Agreement:**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

### **Offline Cementing**

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

## GENERAL REQUIREMENTS

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

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

### Contact Lea County Petroleum Engineering Inspection Staff:

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

### Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;  
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> 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 2<sup>nd</sup> 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** 11/3/2025



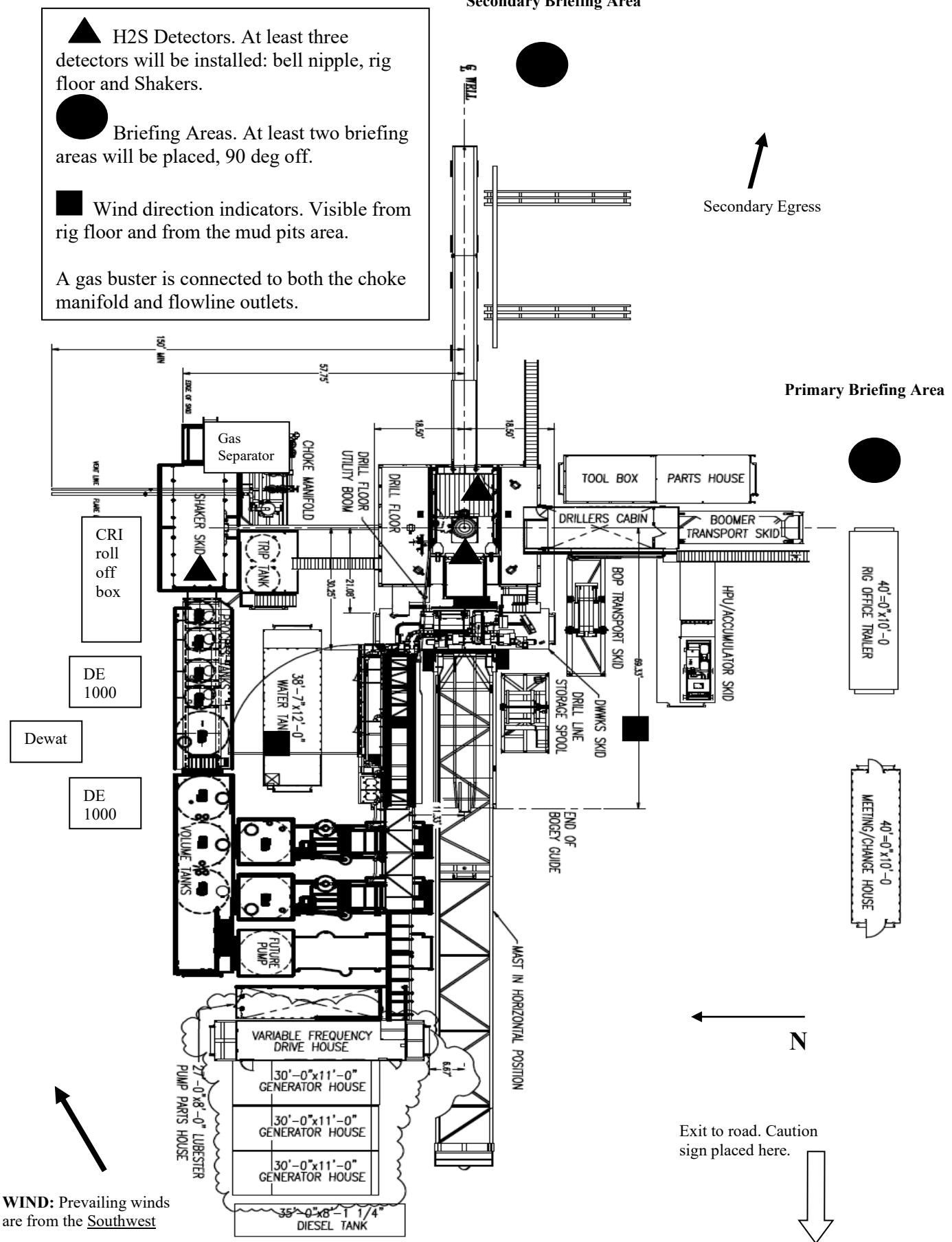


## **Permian Drilling Hydrogen Sulfide Drilling Operations Plan**

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 (H<sub>2</sub>S) gas.

While drilling this well, it is possible to encounter H<sub>2</sub>S bearing formations. At all times, the first barrier to control H<sub>2</sub>S 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 H<sub>2</sub>S is detected. All H<sub>2</sub>S 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 H<sub>2</sub>S.
2. Proper use and maintenance of personal protective equipment and life support systems.
3. H<sub>2</sub>S detection.
4. Proper use of H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S Drilling Operations Plan.

H<sub>2</sub>S 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. H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S.
- 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

- 1. Will remain in briefing / muster area until instructed by supervisor.

Floor man #1

Floor man #2

Mud engineer:

- 1. Report to nearest upwind designated safe briefing / muster area.
- 2. When instructed, begin check of mud for pH and H<sub>2</sub>S level. (Garrett 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 H<sub>2</sub>S emergency, all personnel will follow standard Well control procedures after reporting to briefing area and masking up.

### **Open-hole logging**

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

### **Running casing or plugging**

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

### **Ignition procedures**

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

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

### **Instructions for igniting the well**

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

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

**Status check list**

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

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

Checked by: \_\_\_\_\_ Date:

### **Procedural check list during H2S events**

#### **Perform each tour:**

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

#### **Perform each week:**

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

### **General evacuation plan**

1. When the company approved supervisor (Drill Site Manager, consultant, rig pusher, or driller) determines the H<sub>2</sub>S 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 H<sub>2</sub>S detection equipment and self-contained breathing equipment will monitor H<sub>2</sub>S 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			Physical effects	
		Grains		100 std. Ft3*		
0.001	<10		00.65		Obvious and unpleasant odor.	

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

\*at 15.00 psia and 60'f.

### **Use of self-contained breathing equipment (SCBA)**

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

- B. When breaking out any line where H<sub>2</sub>S can reasonably be expected.
- C. When sampling air in areas to determine if toxic concentrations of H<sub>2</sub>S exists.
- D. When working in areas where over 10 ppm H<sub>2</sub>S has been detected.
- E. At any time there is a doubt as to the H<sub>2</sub>S level in the area to be entered.

**Rescue**  
**First aid for H<sub>2</sub>S poisoning**

**Do not panic!**

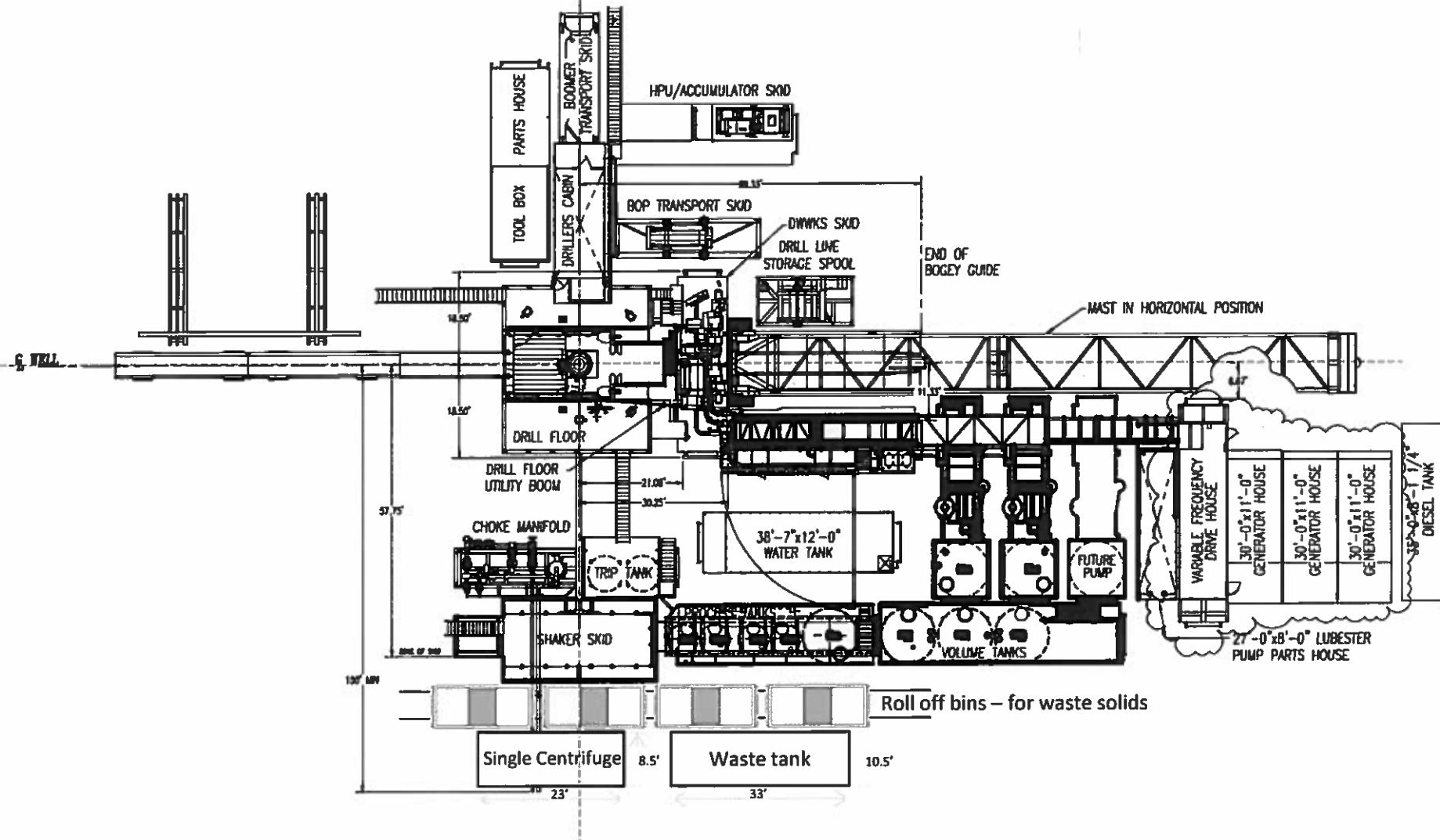
Remain calm – think!

- 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 H<sub>2</sub>S gas poisoning – no matter how remote the possibility is.
- 6. Notify emergency room personnel that the victim(s) has been exposed to H<sub>2</sub>S gas.

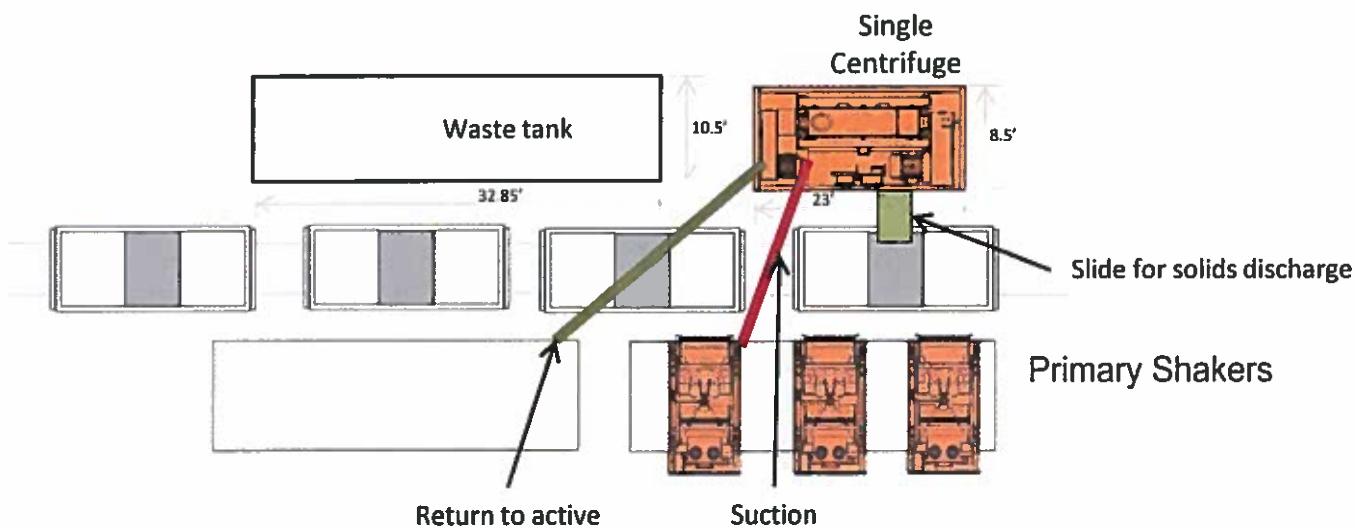
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012

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



# Oxy



Well Head



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



## SITE PLAN

SNDDNS 23S31E 3401

SEC. 34 TWP. 23-S RGE. 31-E

## SURVEY: N.M.P.M.

**COUNTY: EDDY**

OPERATOR: OXY USA, INC.

FAA PERMIT NEEDED: NO

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



BUREAU OF LAND  
MANAGEMENT

SECTION 27,  
T-23-S, R-31-E

## PROPOSED CRUDE FLOWLINE

EXISTING  
SNDDNS\_23S31E\_3401  
WELL PAD

PROPOSED  
SNDDNS-23S31E\_3401  
WELL PAD  
EXTENSION

EXISTING  
OVERHEAD  
POWERLINE

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

0	11/08/2023	ANC
RFV	DATE	BY

#### BASIS OF BEARING

DATA OF DRAWING  
ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999780644 AND A CONVERGENCE ANGLE OF 0.303074914°).



NOVEMBER 8, 2023

DAVID W. MYERS 11403



PREPARED BY:  
DELTA FIELD SERVICES, LLC  
510 TRENTON STREET,  
WEST MONROE, LA 71291  
318-323-6900 OFFICE  
JOB No. OXY\_0033\_PT04  
SHEET 1 OF 3

Released to Imaging: 12/15/2025 10:45:36 AM



## SITE PLAN

SNDDNS\_23S31E\_3401

SEC. 34 TWP. 23-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

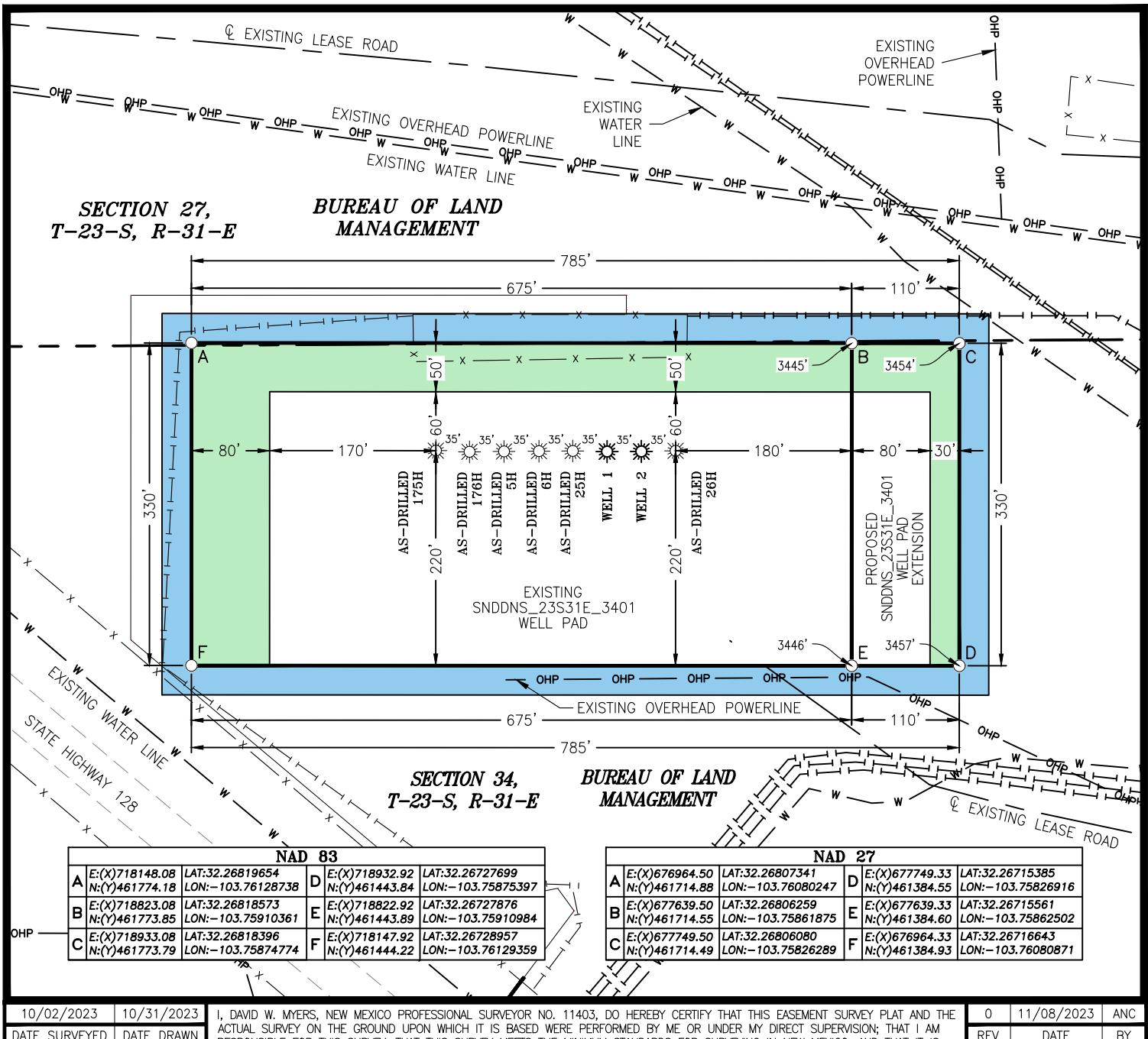
U.S.G.S. TOPOGRAPHIC MAP: LOS MEDANOS, N.M.

FAA PERMIT NEEDED: NO

TANK BATTERY  
RECLAMATION  
30' TOP SOIL  
20' DISTURBANCE AREA



75' 0' 75' 150'  
SCALE: 1" = 150'



## BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.999780644 AND A CONVERGENCE ANGLE OF 0.303074914).

LEGEND	
EXISTING ROAD	OHP
PROPOSED ROAD	SECTION LINE
SURFACE SITE EDGE	PROPERTY LINE
EXIST. PIPELINE	WATER LINE
MONUMENT	SWD
● QUARTER SPLIT	SALT WATER LINE

NOVEMBER 8, 2023

DAVID W. MYERS 11403



PREPARED BY:  
DELTA FIELD SERVICES, LLC  
510 TRENTON STREET,  
WEST MONROE, LA 71291  
318-323-6900 OFFICE  
JOB No. OXY\_0033\_PT04  
SHEET 2 OF 3



# SITE PLAN

SNDDNS\_23S31E\_3401

SEC. 34 TWP. 23-S RGE. 31-E

SURVEY: N.M.P.M.

COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: LOS MEDANOS, N.M.

FAA PERMIT NEEDED: NO

## WELL 1

PLATINUM MDP1 34\_3 FED COM 44H  
OXY USA, INC.

111' FNL 863' FEL, SECTION 34  
**NAD 83, SPCS NM EAST**  
 X:718572.88' / Y:461663.01'  
 LAT:32.26788474N / LON:103.75991497W  
**NAD 27, SPCS NM EAST**  
 X:677389.29' / Y:461603.72'  
 LAT:32.26776159N / LON:103.75943011W  
 ELEVATION = 3,443'

## WELL 2

PLATINUM MDP1 34\_3 FED COM 55H  
OXY USA, INC.

111' FNL 828' FEL, SECTION 34  
**NAD 83, SPCS NM EAST**  
 X:718607.93' / Y:461663.07'  
 LAT:32.26788440N / LON:103.75980158W  
**NAD 27, SPCS NM EAST**  
 X:677424.34' / Y:461603.78'  
 LAT:32.26776125N / LON:103.75931673W  
 ELEVATION = 3,443'

10/02/2023	11/08/2023
DATE SURVEYED	DATE DRAWN

0	11/08/2023	ANC
REV	DATE	BY

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

## BASIS OF BEARING

ALL BEARINGS AND COORDINATES REFER TO NAD 83, NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET. (ALL BEARINGS, DISTANCES, COORDINATES AND AREAS ARE GRID MEASUREMENTS UTILIZING A COMBINED SCALE FACTOR OF 0.99978405 AND A CONVERGENCE ANGLE OF 0.31750167°)

Released to Imaging: 12/15/2025 10:45:36 AM

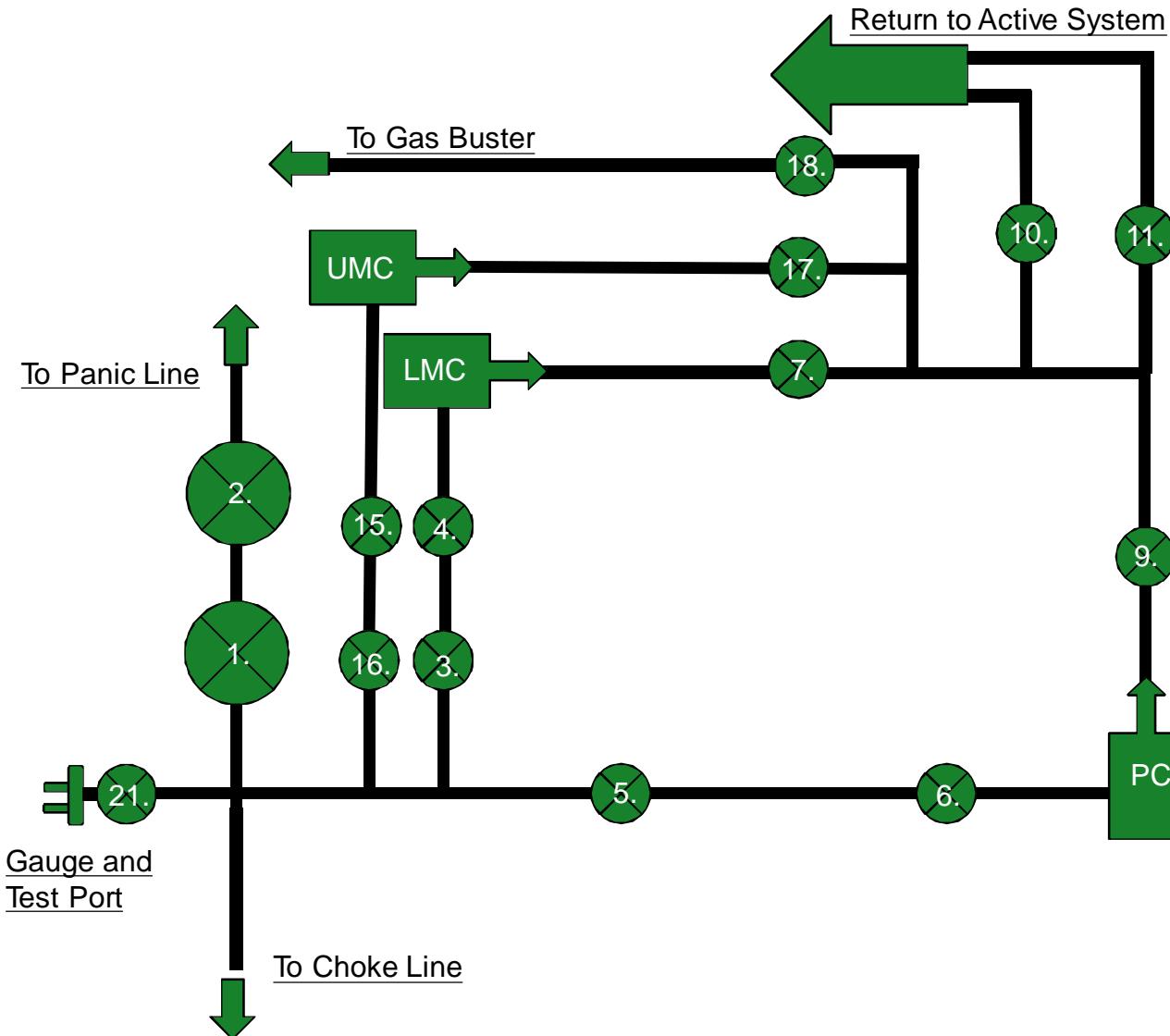
NOVEMBER 8, 2023

DAVID W. MYERS 11403



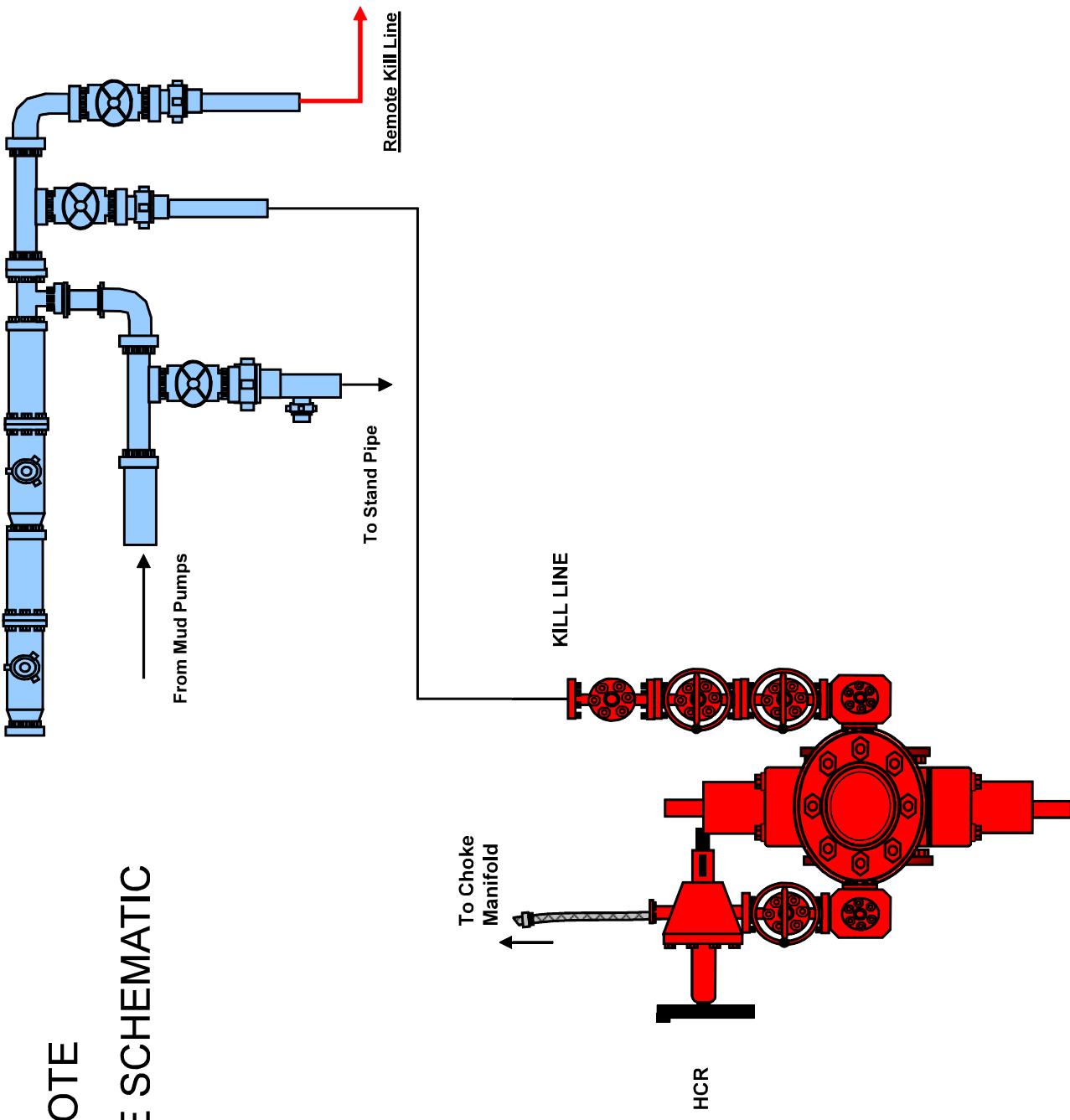
PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
 510 TRENTON STREET,  
 WEST MONROE, LA 71291  
 318-323-6900 OFFICE  
 JOB No. OXY\_0033\_PT04  
 SHEET 3 OF 3

# 10M Choke Panel

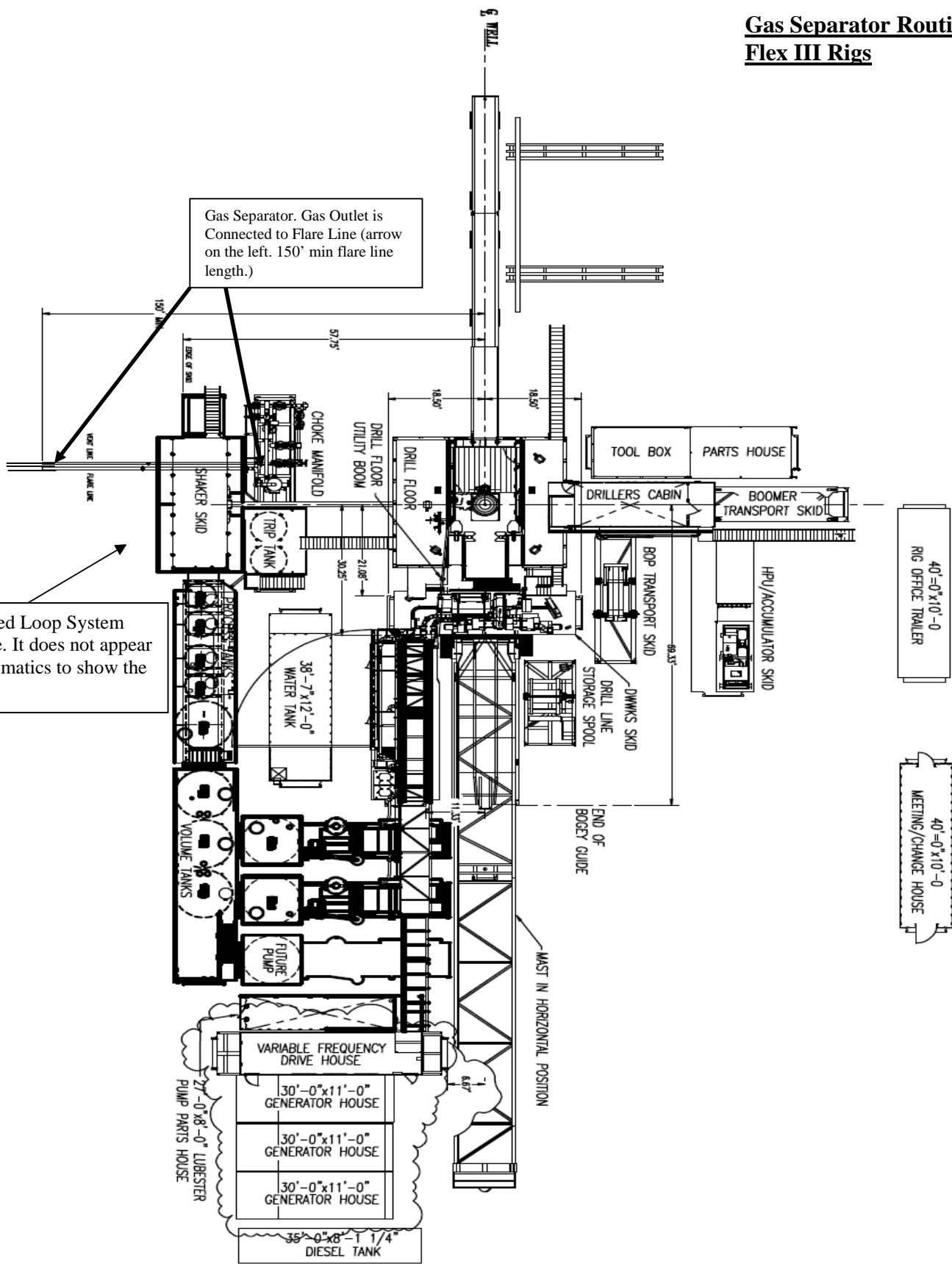


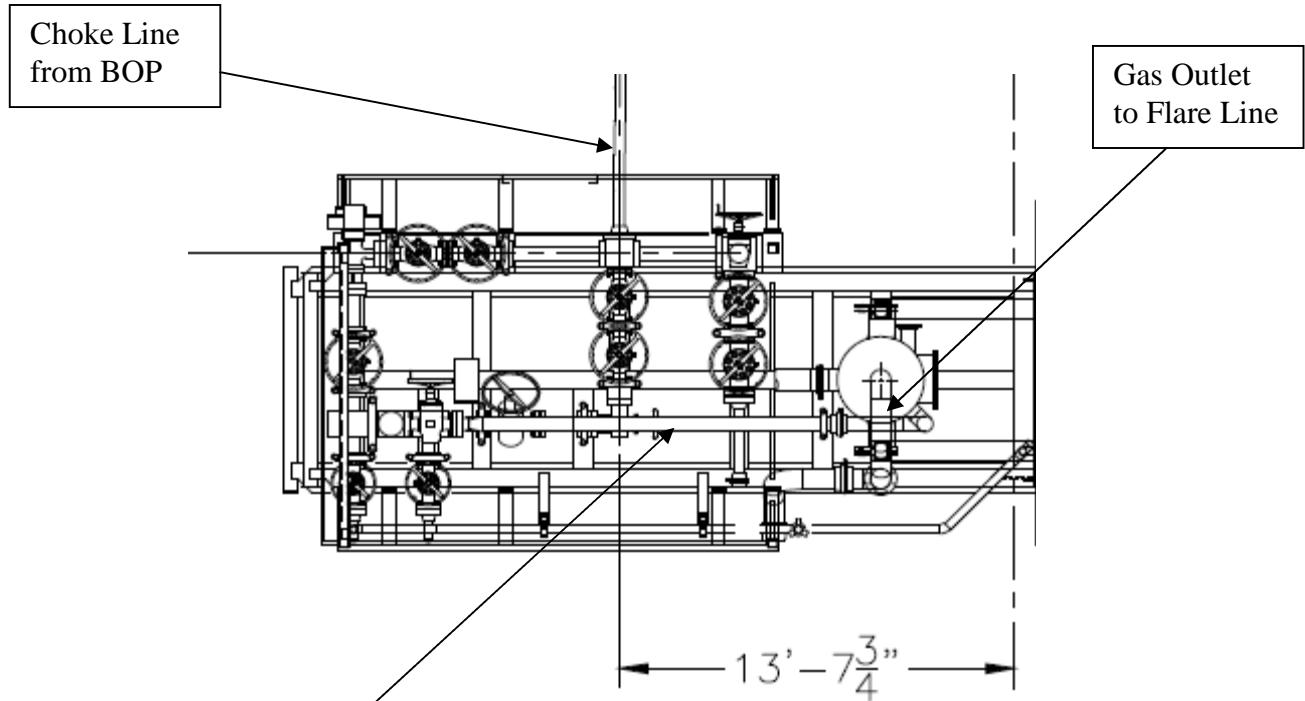
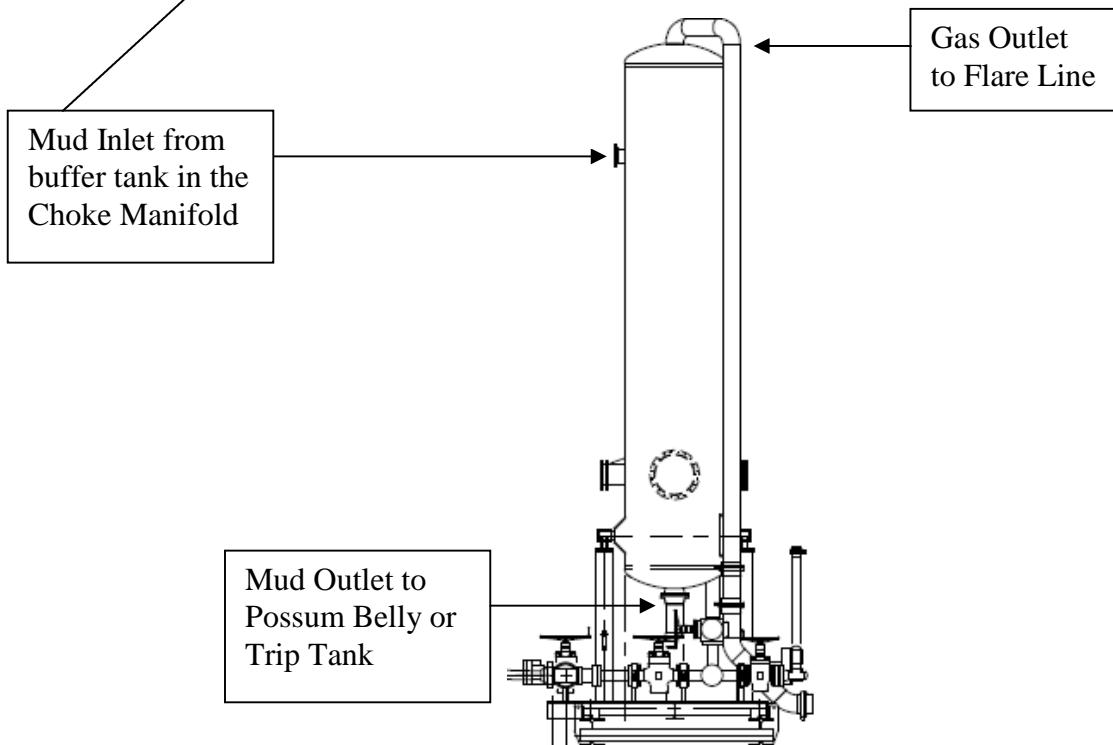
1. Choke Manifold Valve
2. Choke Manifold Valve
3. Choke Manifold Valve
4. Choke Manifold Valve
5. Choke Manifold Valve
6. Choke Manifold Valve
7. Choke Manifold Valve
8. **PC – Power Choke**
9. Choke Manifold Valve
10. Choke Manifold Valve
11. Choke Manifold Valve
12. **LMC – Lower Manual Choke**
13.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

**\*All Valves 3" minimum**



**Gas Separator Routing**  
**Flex III Rigs**



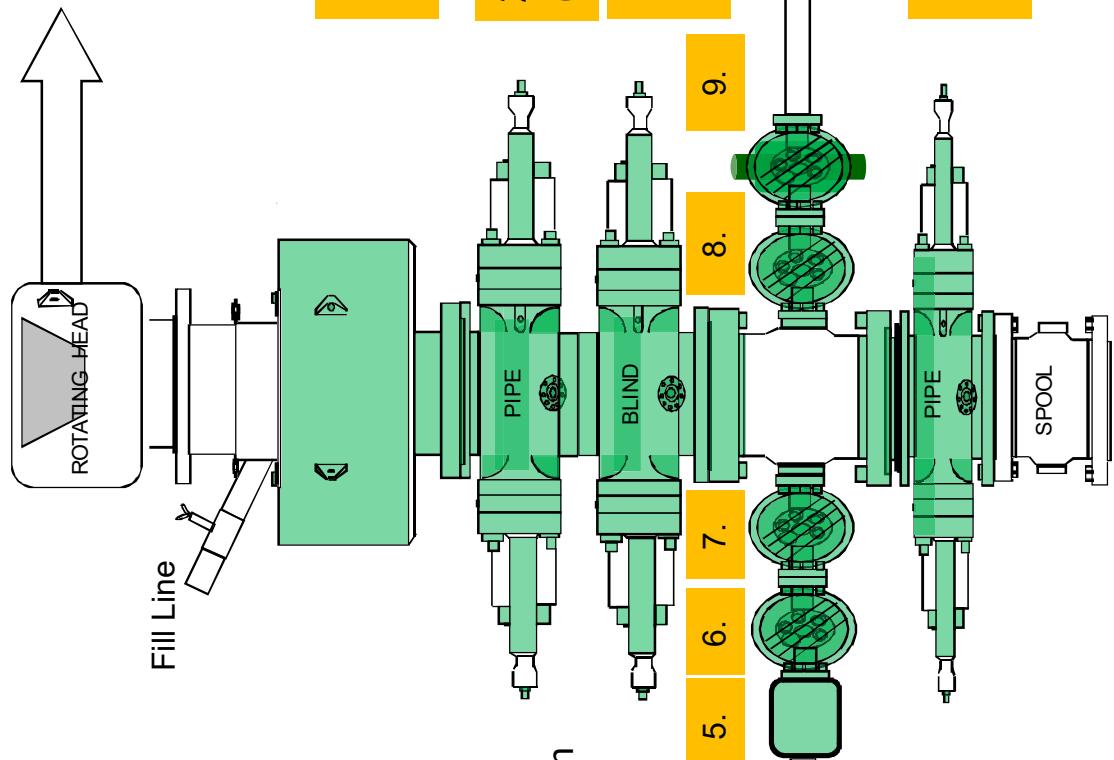
**Choke Manifold – Gas Separator (Top View)****Choke Manifold – Gas Separator (Side View)**

# 5/10M BOP Stack

## Mud Cross Valves:

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

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



## Certificate of Conformity



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 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

## Hydrostatic Test Certificate

Continental

ContiTech

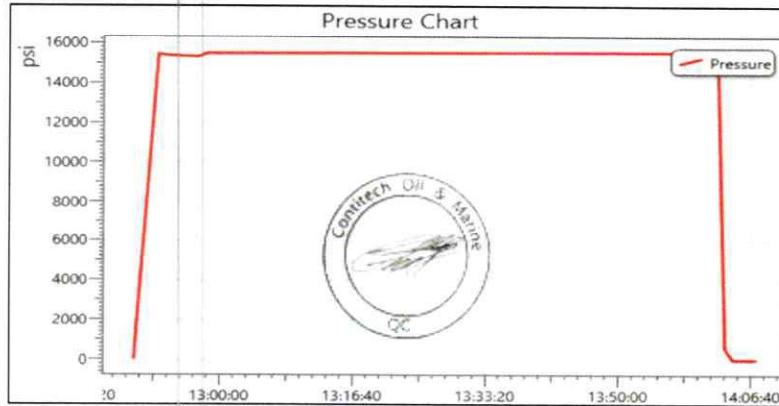
Certificate Number H100161	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA			
Customer Purchase Order No: 740382384					
Project:					
Test Center Address		Accepted by COM inspection	Accepted by Client inspection		
ContiTech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

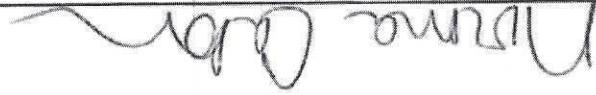
We certify that the goods detailed hereon have been inspected as described below by our Quality Management System, and to the best of our knowledge are found to conform to the requirements of the above referenced purchase order as issued to ContiTech Oil & Marine Corporation.

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



DATE: 11/20/2019  
 TITLE: QUALITY ASSURANCE  
 SIGNATURE: 

SERIAL #: H2-112019-4  
 QANTITY: 1  
 SALES ORDER #: 516982  
 CLAMPS  
 RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE  
 ARMOR C/W 4 1/16 INCH X FLOAT H2S SUITED FLANGES WITH BX 155  
 3" X 12 FT GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL  
 10KFR3.012.0CK41161OKFFXFL SSA SC LE  
 4128128 (RIG 1 PO 002773)  
 CUSTOMER P/N: A-7 AUSTIN INC DBA AUSTIN HOSE  
 CUSTOMERS P.O.#: 4128128 (RIG 1 PO 002773)  
 PART DESCRIPTION: RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE

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

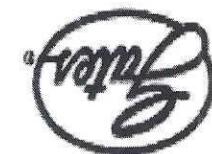
FAX:

PHONE: (281) 602-4119

Houston, TX, 77086

7603 Prairie Oak Dr.

Gates Engineering & Services North America



THIS IMAGE IS FOR USE AS



Revision 1\_022819

F-PRD-005

11/20/2019	11/20/2019
PRODUCTION	QUALITY

Signature:	11/20/2019
Date:	11/20/2019
Product:	PRODUCTION
Quality:	QUALITY

Signature :  
Date :  
Product :  
Quality :

The following hose assembly has successfully passed all pressure testing requirements set forth in Gates specifications: GTS-Q4-052 (for 5K assemblies) or GTS-Q4-053 (10K assemblies), which include reference to certification 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 was assembly was pressure tested using equipment and instrumentation that has been calibrated in accordance with the requirements set forth in the GESNA management system.

Gates Engineering & Services North America certifies that:

4/16 10K FLANGES FIXED	End Fitting 2:
4/16 10K FLANGES FLOAT	Assembly Code:
41242 113018	Test Pressure:
15,000 PSI	Working Pressure:
10,000 PSI	

Customer P/N:  
Order No.:End Fitting 1:

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

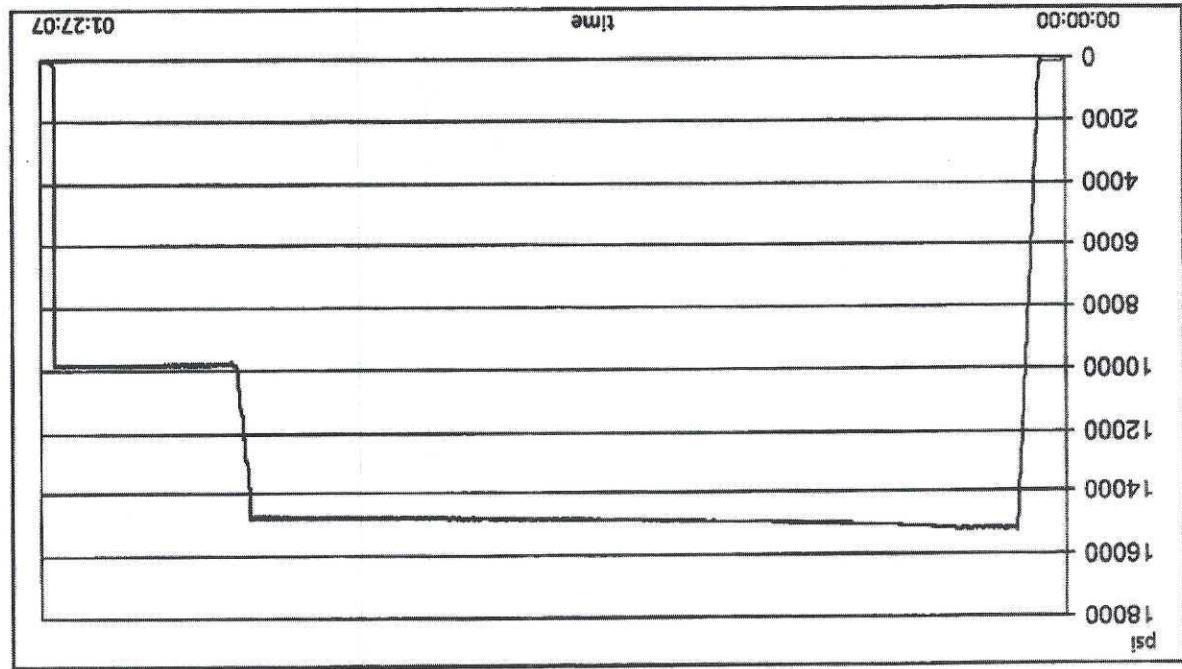
11/20/2019	Test Date:
4128128 (RIG 1 PO 002773)	House Serial No.:
HZ-112019-4	
A-7 AUSTIN INC DBA AUSTIN HOSE	Created By:
516982	Name Cabrera

Invoice No.:

PRESSURE TEST CERTIFICATE	
---------------------------	--

GATES ENGINEERING & SERVICES NORTH AMERICA  
7603 Prairie Oak Dr.  
Houston, TX 77086  
PHONE: (281) 602 - 4119  
FAX: EMAIL: [Troy.Schmidt@gates.com](mailto:Troy.Schmidt@gates.com)  
WEB: [www.gates.com](http://www.gates.com)





TEST INFORMATION					
Customer reference:	516982	Customer reference:	3.0 10K MS C&K	Part number:	
Product description:	141242113018	Product description:		Part number:	
Sales order #:		Sales order #:		Part number:	
TEST OBJECT	H2-112019-4	TEST OBJECT	H2-112019-4	TEST OBJECT	
Customer:	Austin Hose	Customer:	Austin Hose	Customer:	
Company:	H2-112019-4	Company:	H2-112019-4	Company:	
TEST OBJECT	141242113018	TEST OBJECT	141242113018	TEST OBJECT	
Lot number:		Lot number:		Lot number:	
Product description:		Product description:		Product description:	
Sales order #:		Sales order #:		Sales order #:	
Customer reference:		Customer reference:		Customer reference:	
TEST INFORMATION	GTS-04-053	TEST INFORMATION	GTS-04-053	TEST INFORMATION	
Test procedure:	15000.00	Test procedure:	15000.00	Test procedure:	
Test pressure hold:	3600.00	Test pressure hold:	3600.00	Test pressure hold:	
Work pressure hold:	9750.00	Work pressure hold:	9750.00	Work pressure hold:	
Work pressure:	900.00	Work pressure:	900.00	Work pressure:	
Length difference hold:	0.00	Length difference hold:	0.00	Length difference hold:	
Length difference:	0.24	Length difference:	0.24	Length difference:	
Length difference %:	0.00	Length difference %:	0.00	Length difference %:	
Part number:	inch	Part number:	%	Part number:	
Description:	Filtering 2:	Description:	Filtering 2:	Description:	
Filtering 2:	3.0 x 4-1/16 10K	Filtering 2:	3.0 x 4-1/16 10K	Filtering 2:	
feet	12	feet	12	feet	
Visual check:	PASS	Pressure test result:	PASS	Length measurement result:	
Test operator:	Roderick Shambra				

## TEST REPORT

11/20/2019 12:13:07 PM

H2-1987



Filename: D:\Certificates\Report\_112019-H2-112019-4.pdf

Page 2/2

Comment			
---------	--	--	--

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

**Gauge Traceability****TEST REPORT**

11/20/2019 12:13:07 PM

**H2-1987**

Garrett 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 PURCHASE ORDER, INCUDING: QUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED IN ACCORDANCE WITH ISO-9001:2015, API Q1 AND API SPEC 7K.

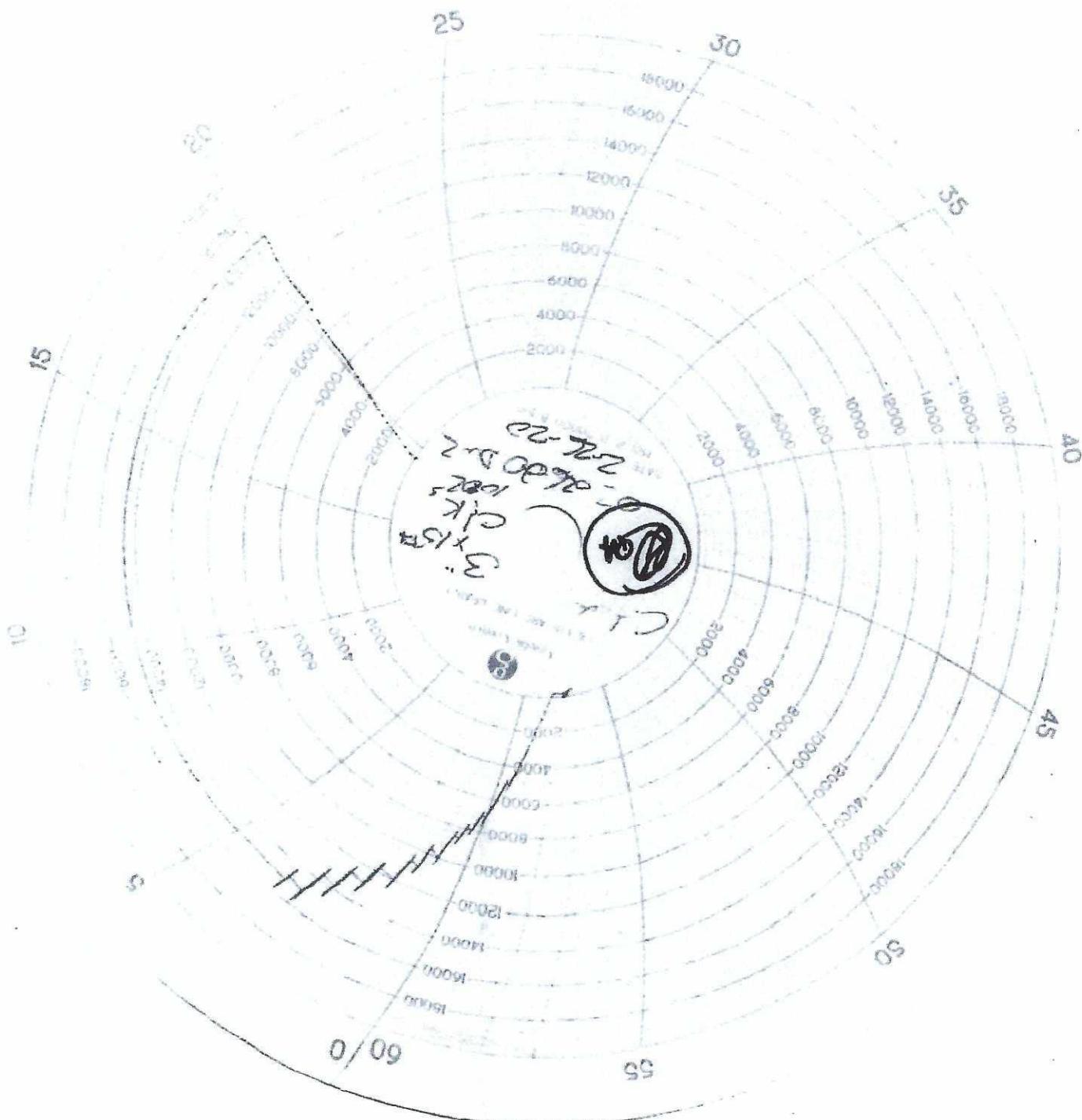
Purchase Order Information					
Customer Name:	CRADLE DRILLING	Customer Contact:	PAUL HOFFMAN 432-242-5360	Purchase Order Number:	CONTACT PAUL HOFFMAN FOR INFO
DW Industries Order Number:	OA-5640-4815-1002-4	DW Industries Work Order Number:	20020163	DW Industries Serial Number:	022620DW-2
QTY Ordered:	1	Assembly Date:	02/26/2020	Customer Part Number:	3" 10,000 psi WP CHOKE HOSE
Customer Part Number:	OA-5640-4815-1002-4	Part Description:	MX F4" 100Z HAMMER UNION C/W CLAMPS	Customer Part Number:	3" 10,000 psi WP CHOKE HOSE

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

DW INDUSTRIES INC.

COPY

Certificate of Conformance



COPIY

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

# Certificate of Conformance

**DW INDUSTRIES INC.**  
6287 Long Drive  
Houston, TX 77087

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

**COPY**

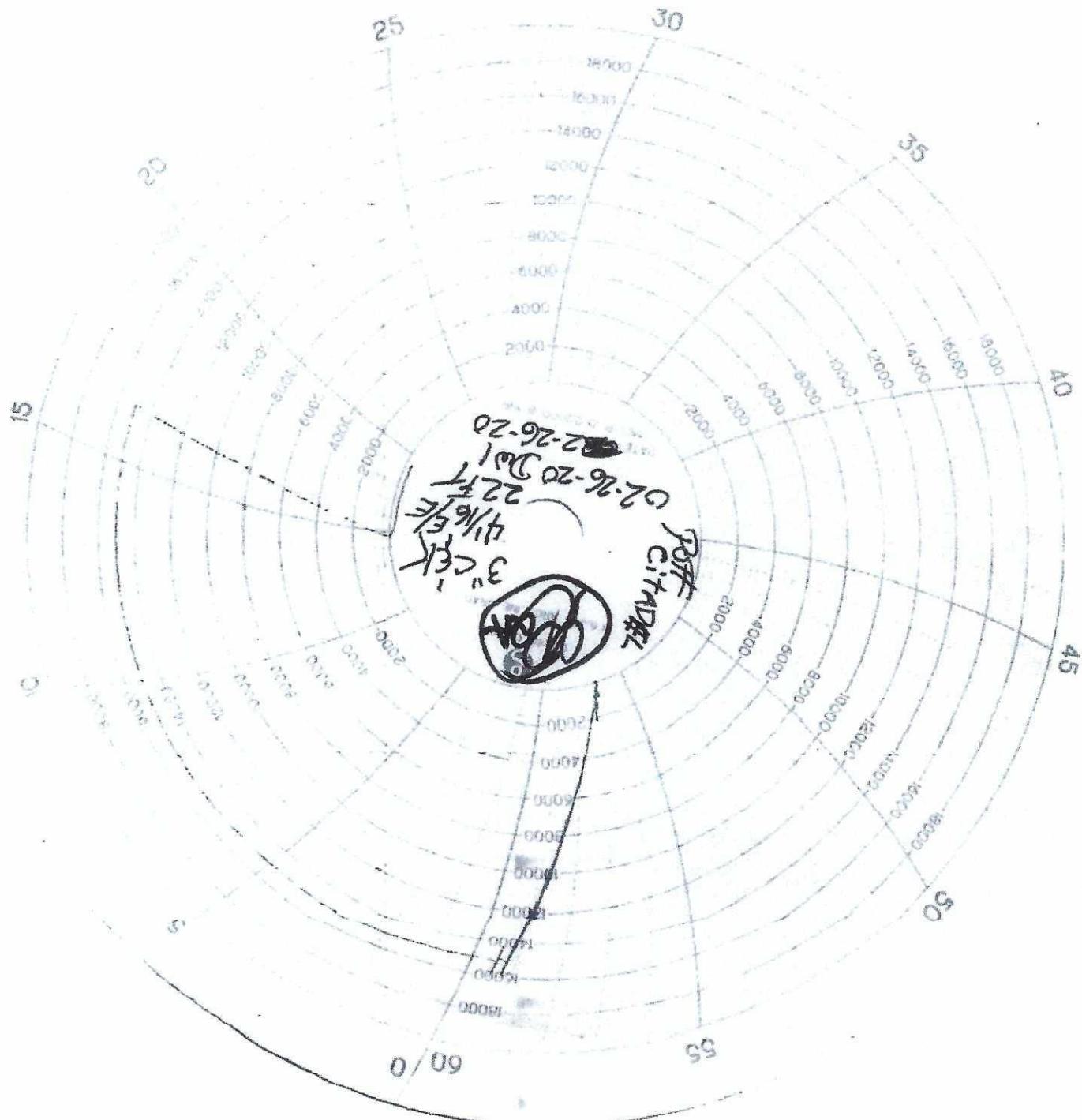
Garet Crayford, Director of Quality  
DW Industries Inc.

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

Garet Crayford, Director of Quality





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

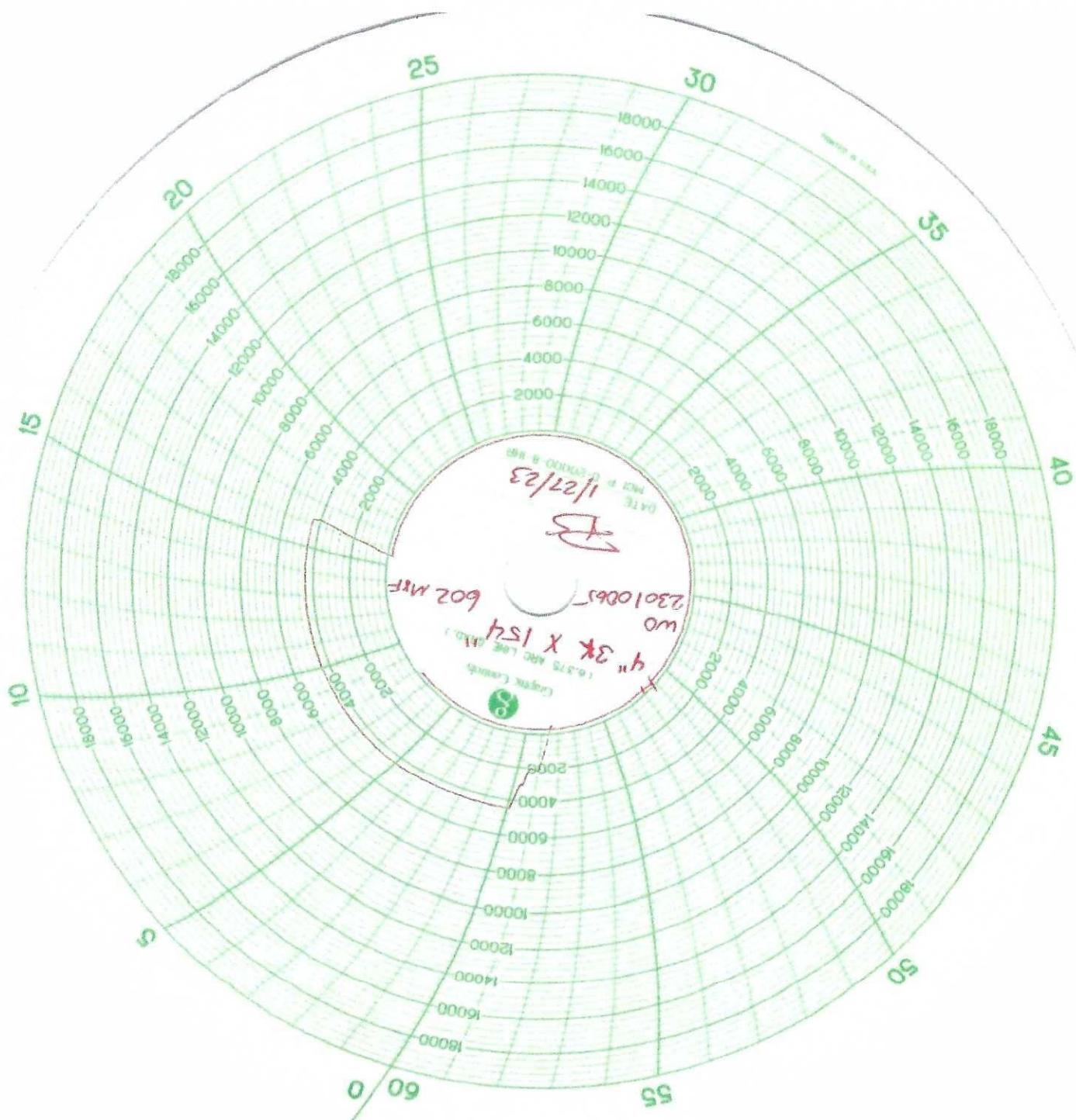
TEL. 713-644-8372 FAX 713-644-4947

Houston, TX 77087

6287 Long Drive

DW INDUSTRIES INC.

Certificate of Conformance




**BLACK GOLD®**

 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

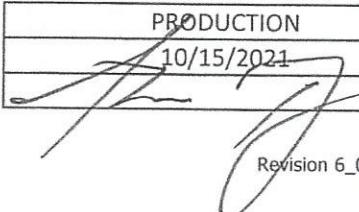
Product Description: 3" X 35' GATES FIRE RATED CHOKE & KILL HOSE ASSEMBLY SUITED FOR H2S SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

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:	10K3.035.0CK411610KFIIXFLTW/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 :	Micky Mhina

Production:	PRODUCTION
Date :	10/15/2021
Signature :	

F-PRD-005B

Revision 6\_05032021

**BLACK GOLD®**

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

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

## **CERTIFICATE OF CONFORMANCE**

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

**CUSTOMER:** A-7 AUSTIN INC DBA AUSTIN HOSE

**CUSTOMER P.O. #:** 00595477

**CUSTOMER P./N. #:** 10K3.035.0CK411610KFIIXFLTW/SSA/SC/LE

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

**PART DESCRIPTION:** SERVICE C/W 4 1/16 10K FIXED X FLOAT HEAT TREATED FLANGES SUPPLIED WITH STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

**SALES ORDER #:** 521925

**QUANTITY:** 1

**SERIAL #:** H3-101521-2

**SIGNATURE:** Mike Wuer

**QUALITY ASSURANCE**

**TITLE:** \_\_\_\_\_

**DATE:** 10/15/2021



H3-6963

10/15/2021 10:15:57 AM

## TEST REPORT

**CUSTOMER**

Company: Austin Distributing

**TEST OBJECT**

Serial number: H3-101521-2

Production description:

Lot number: L41975091719

Sales order #: 521925

Description:

Customer reference:

Hose ID: 3" 10k ck

Part number:

**TEST INFORMATION**

Test procedure: GTS-04-053

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

Test pressure: 15000.00 psi

Part number:

Test pressure hold: 3600.00 sec

Description:

Work pressure: 10000.00 psi

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

Work pressure hold: 900.00 sec

Part number:

Length difference: 0.00 %

Description:

Length difference: 0.00 inch

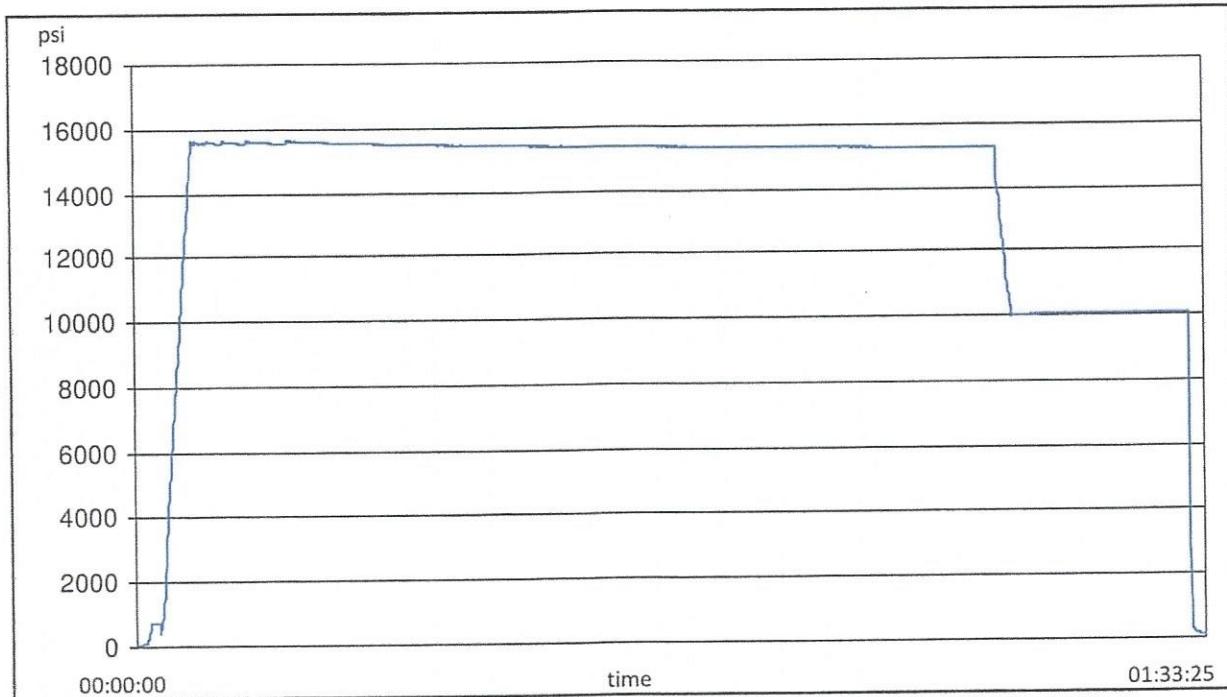
Visual check:

Length: 35 feet

Pressure test result: PASS

Length measurement result:

Test operator: francisco





H3-6963

10/15/2021 10:15:57 AM

## TEST REPORT

### GAUGE TRACEABILITY

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

#### Comment

## Hydrostatic Test Certificate

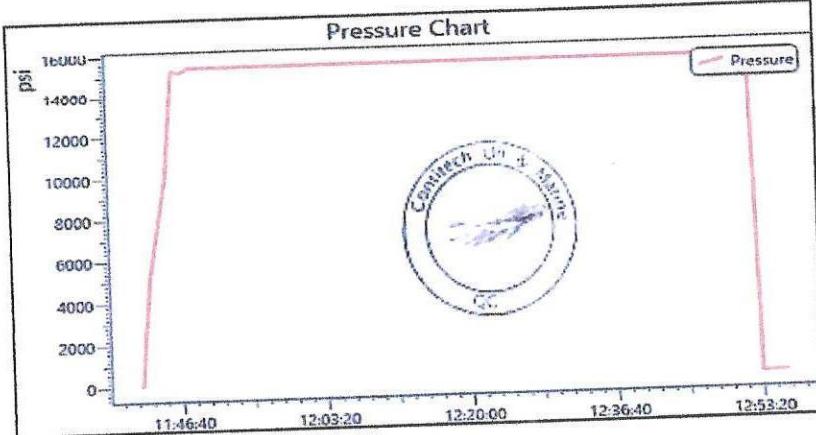
Certificate Number H100163	COM Order Reference 1429702	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE TULSA, OK 74119 USA	
Project:			
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection Signed: Gerson 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	
Start Time	6/14/2022 11:42:08
End Time	6/14/2022 12:56:14
Interval	00:01:00
Number	75
MaxValue	15888
MinValue	-8
AvgValue	14184
RecordName	70025-sh
RecordNumber	237

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





ContiTech

## Certificate of Conformity

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

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

Item	Part No.	Description	Qty	Serial Number	Specifications
------	----------	-------------	-----	---------------	----------------

50 RECERTIFICATION 3" ID 10K Choke and Kill Hose x 35ft OAL 1 70025 ContiTech Standard

ARMORED CHOKE HOSE

Installed

8-29-22



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	6026	AISI 4130	A0607J
Hub		AISI 4130	040841
3" coupling with 4 1/16" 10K API b.w. Flange end	6016	AISI 4130	54194
		AISI 4130	A0607J
		AISI 4130	040431
Not Designed For Well Testing		API Spec 16 C 2 <sup>nd</sup> 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:  08. April 2019.	Inspector	Quality Control	<b>CentiTech Rubber Industrial Kft. Quality Control Dept. (1)</b> 



## 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:	<a href="mailto:mitch.mckinnis@hpinc.com">mitch.mckinnis@hpinc.com</a>	
	<b>Parameters</b>		<b>Hose Details</b>			
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.

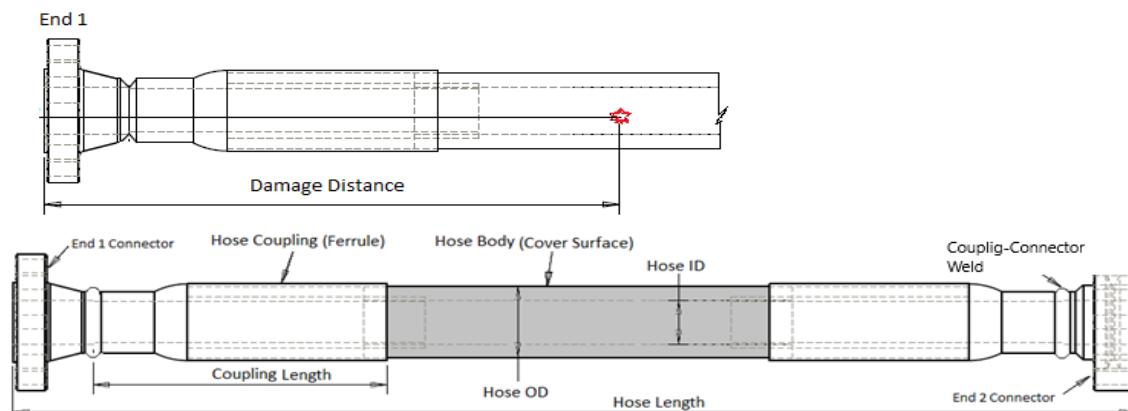


Figure 1: Generic Hose Assembly



## Hose Assembly Evaluation Sheet

## 1.0 Observations and comments



## Hose Assembly Evaluation Sheet



Photos: At Shipping.

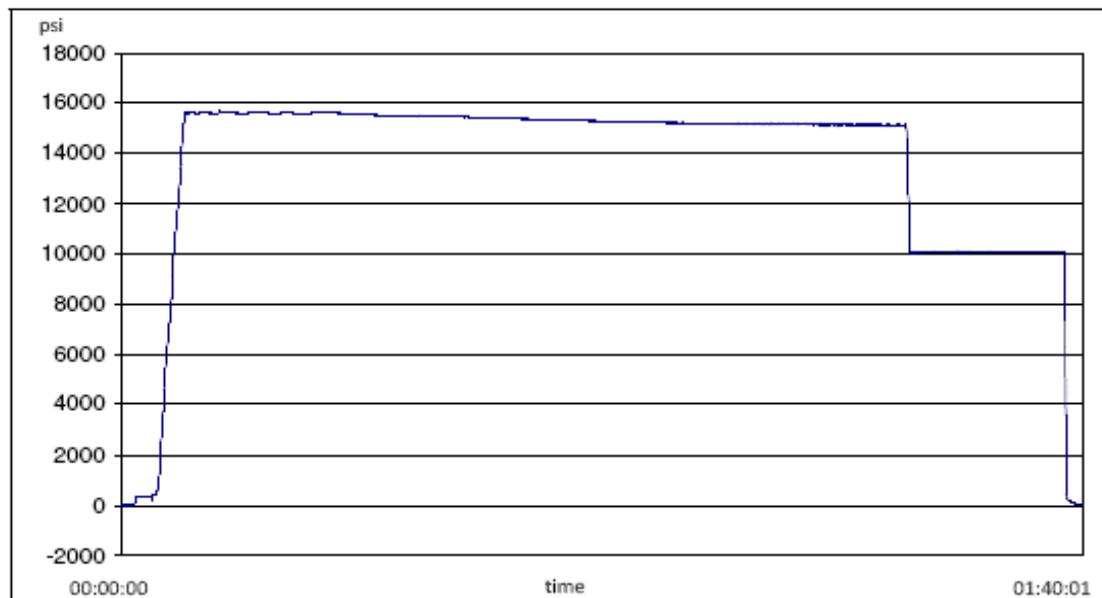


Photos: Armor and Engraving.

## Hose Assembly Evaluation Sheet



## 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 <sup>(1)</sup>	Pass
2	Failure Mode	None
3	Hose Dispatched to the customer?	Yes

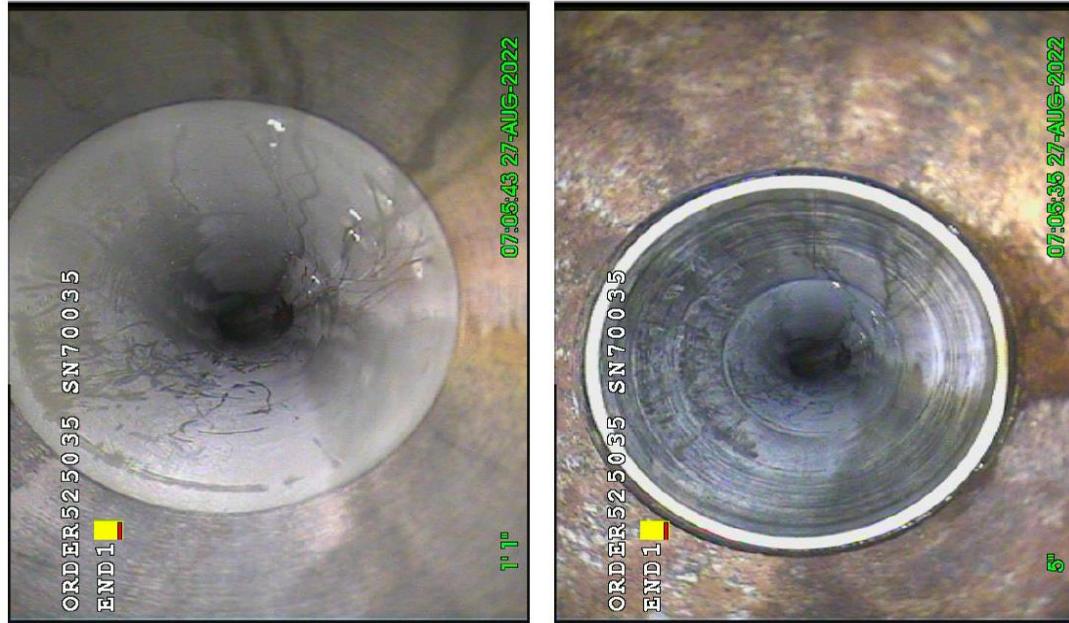
#### Note:

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:

## TEST OBJECT

Serial number: H2-082722-1

## Production description:

Lot number:

Sales order #: 525035

Description:

Customer reference: 740398454 (88000240 |  
SN:70035)

Hose ID: 3 10k C&amp;K

Part number:

## TEST INFORMATION

Test procedure: 3 10K C&amp;K

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

Test pressure: 15000.00 psi

Part number:

Test pressure hold: 3600.00 sec

Description:

Work pressure: 10000.00 psi

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

Work pressure hold: 900.00 sec

Part number:

Length difference: 0.00 %

Description:

Length difference: 0.00 inch

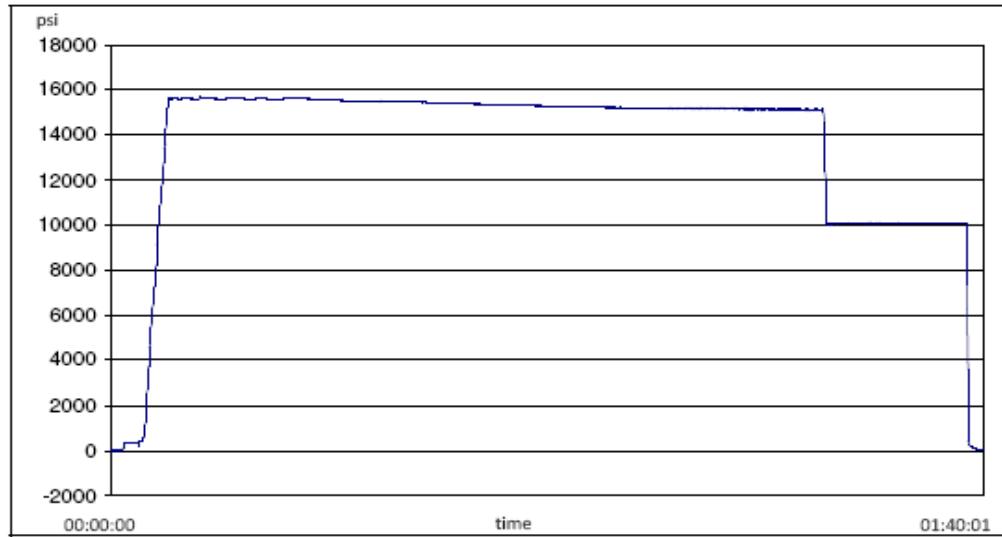
Visual check:

Length: 35 feet

Pressure test result: PASS

Length measurement result:

Test operator: Martin



## 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: gesna.quality@gates.com  
 WEB: www.gates.com/oilandgas

**CERTIFICATE OF CONFORMANCE**

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

**CUSTOMER:** HELMERICH & PAYNE, INC  
**CUSTOMER P.O. #:** 740398454 (88000240 | SN:70035)  
**CUSTOMER P/N:** 88000240 | SN:70035

**PART DESCRIPTION:** INSPECT AND RETEST CUSTOMER HOSE 3IN X 35FT CHOKE & KILL ASSEMBLY C/W 4-1/16 FLANGES BX155 RING GROOVE EACH END

**SALES ORDER #:** 525035  
**QUANTITY:** 1  
**SERIAL #:** H2-082722-1 RE-TEST

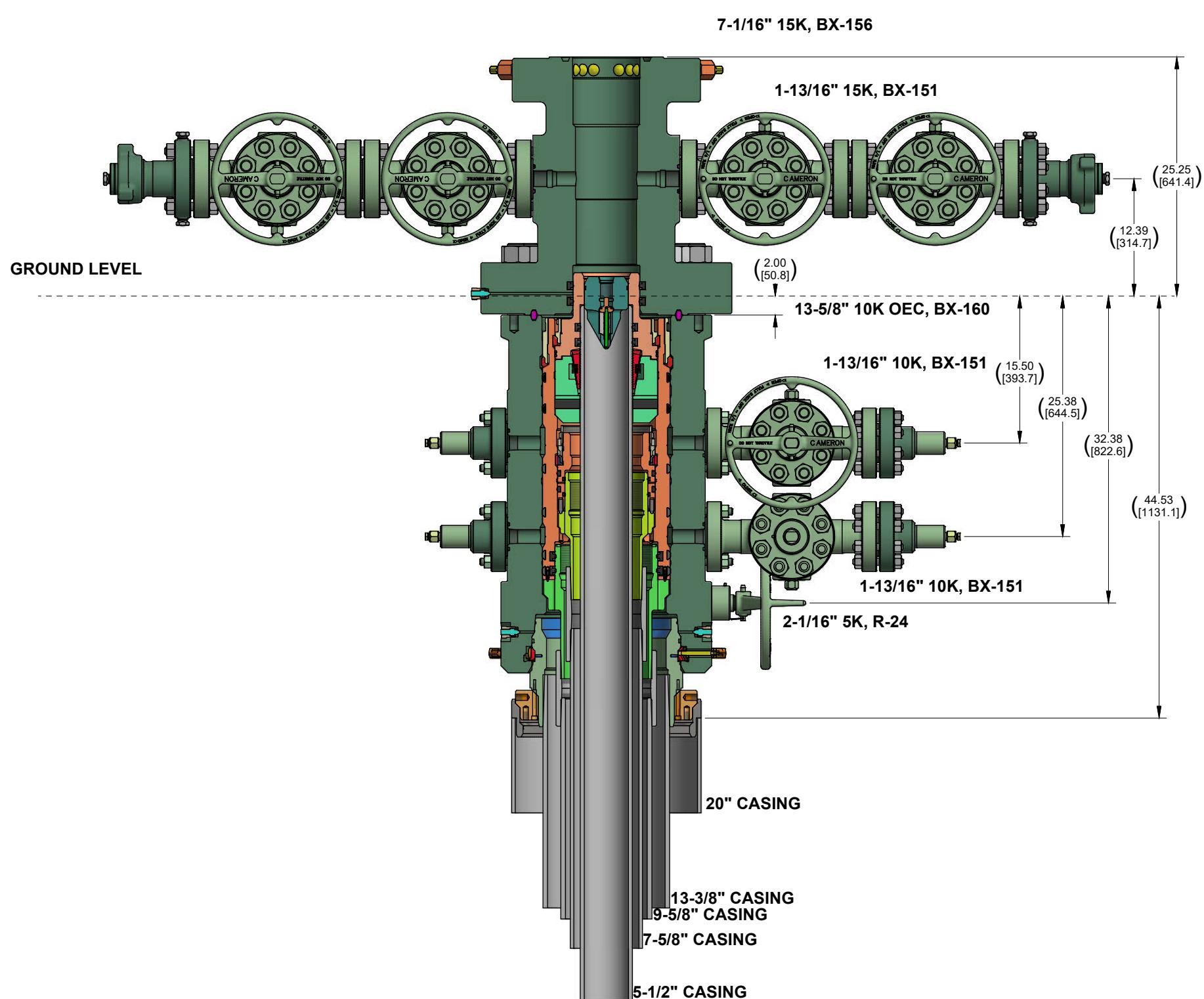
**SIGNATURE:**

QUALITY ASSURANCE

**TITLE:**

**DATE:**

8/27/2022



CONFIDENTIAL			
SURFACE TREATMENT	DO NOT SCALE		
DRAWN BY: A. SKLENKA	DATE: 26 Apr 22		
MATERIAL & HEAT TREAT	CHECKED BY: A. SKLENKA	DATE: 26 Apr 22	
	APPROVED BY: A. SKLENKA	DATE: 26 Apr 22	
ESTIMATED WEIGHT: 7968.4 LBS 3614.4 KG	INITIAL USE B/M: IT# 7836394	SHEET 1 OF 1	REV: 01
ADAPT NST 10K 3 STAGE WELLHEAD STANDARD / EMERGENCY SYSTEM			OXY
A Cameron Company			SURFACE SYSTEMS

## 5M Annular BOP Variance Request

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

### Oxy Well Control Plan

#### A. Component and Preventer Compatibility Table

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

**Pilot hole and Lateral sections, 10M requirement**

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

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

HWDP = Heavy Weight Drill Pipe

MWD = Measurement While Drilling

#### B. Well Control Procedures

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

##### General Procedure While Drilling

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

#### General Procedure While Tripping

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

#### General Procedure While Running Casing

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

General Procedure With No Pipe In Hole (Open Hole)

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

General Procedures While Pulling BHA thru Stack

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

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

## 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.



# API BTC -Special Clearance

Coupling	Pipe Body
Grade: L80-IC	Grade: L80-IC
Body: Red	1st Band: Red
1st Band: Brown	2nd Band: Brown
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -

Outside Diameter	10.750 in.	Wall Thickness	0.400 in.	Grade	L80-IC
Min. Wall Thickness	87.50 %	Pipe Body Drift	Alternative Drift	Type	Casing
Connection OD Option	Special Clearance				

## Pipe Body Data

Geometry		Performance	
Nominal OD	10.750 in.	Drift	9.875 in.
Wall Thickness	0.400 in.	Plain End Weight	44.26 lb/ft
Nominal Weight	45.500 lb/ft	OD Tolerance	API
Nominal ID	9.950 in.		

## Connection Data

Geometry		Performance	
Thread per In	5	Joint Strength	1041 x1000 lb
Connection OD	11.250 in.	Coupling Face Load	478 x1000 lb
Hand Tight Stand Off	1 in.	Internal Pressure Capacity	4150 psi

## Notes

For products according to API Standards 5CT & 5B; Performance calculated considering API Technical Report 5C3 (Sections 9 & 10) equations.

For geometrical and steel grades combinations not considered in the API Standards 5CT and/or 5B; Performance calculations indirectly derived from API Technical Report 5C3 (Sections 9 & 10) equations.

Couplings OD are shown according to current API 5CT 10th Edition.

Tenaris has issued this document for general information only, and the information in this document, including, without limitation, any pictures, drawings or designs ("Information") is not intended to constitute professional or any other type of advice or recommendation and is provided on an "as is" basis. No warranty is given. Tenaris has not independently verified any information -if any- provided by the user in connection with, or for the purpose of, the Information contained hereunder. The use of the Information is at user's own risk and Tenaris does not assume any responsibility or liability of any kind for any loss, damage or injury resulting from, or in connection with any Information contained hereunder or any use thereof. The Information in this document is subject to change or modification without notice. Tenaris's products and services are subject to Tenaris's standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services, as the case may be, between petitioner and Tenaris. For more complete information please contact a Tenaris's representative or visit our website at [www.tenaris.com](http://www.tenaris.com) . ©Tenaris 2023. All rights reserved.

## 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.

## 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)

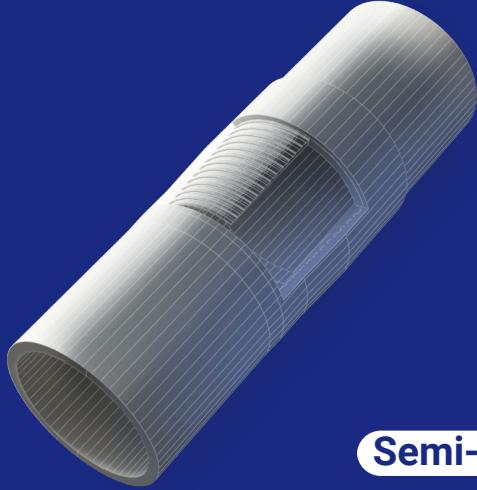
- Axial: Buoyant weight of the string plus cement plug bump pressure load.



## CONNECTION DATA SHEET

OD: **5.500 in.** Grade: **P110 RY**  
 Weight: **20.00 lb/ft** Drift: **4.653 in. (API)**  
 Wall Th.: **0.361 in.**

### VAM® SPRINT-SF



**Semi-Flush**

#### Field Torque Values

##### Make-up Torque (ft-lb)



##### Torque with Sealability (ft-lb)



##### Locked Flank Torque (ft-lb)



(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	kib
Internal Yield Pressure	12,640	psi
Collapse Pressure	11,110	psi

#### CONNECTION PROPERTIES

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

#### JOINT PERFORMANCES

Tension Strength	577	kib
Compression Strength	577	kib
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



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

Scan the QR code  
to contact us



The information available on this Site ('Information') is offered for general information. It is supposed to be correct at the time of publishing on the Site but is not intended to constitute professional advice and is provided 'as is'. Vallourec does not guarantee the completeness and accuracy of this Information. Under no circumstances will Vallourec be liable for damage, liability of any kind, or any loss or injury that may result from the credibility given to this Information or its use. The Information may be amended, corrected, or supplemented at any time by Vallourec without warning. Vallourec's products and services are subject to Vallourec's The Information may be amended, corrected, and/or supplemented at any time by Vallourec without warning. Standard terms and conditions or otherwise to the terms resulting from the respective contracts of sale or services.

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

General Information  
Phone: (505) 629-6116

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

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

ACKNOWLEDGMENTS

Action 523994

**ACKNOWLEDGMENTS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 523994
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
-------------------------------------	--

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 523994

**CONDITIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 523994
	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.	11/6/2025
guthries	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	11/6/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	12/15/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	12/15/2025
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.	12/15/2025
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.	12/15/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	12/15/2025