

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

# Operator Certification Data Report 10/07/2025

### **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: 12/05/2024

Title: Regulatory Advisor

Street Address: 5 GREENWAY PLAZA SUITE 110

City: HOUSTON State: TX Zip: 77046

Phone: (713)497-2851

Email address: SARA\_GUTHRIE@OXY.COM

**Field** 

Representative Name: Michael Wilson

**Street Address:** 

City: State: Zip:

Phone: (575)631-6618

Email address: michael\_wilson@oxy.com



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

Application Data

BUREAU OF LAND MANAGEMENT

Submission Date: 12/16/2024

**Operator Name: OXY USA INCORPORATED** 

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM

Well Type: OIL WELL

**APD ID:** 10400102348

Well Number: 11H

Well Work Type: Drill

**Zip:** 93276-1002

Highlighted data reflects the most recent changes Show Final Text

### **Section 1 - General**

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: NMNM120897 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:** 

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: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H Well API Number:

Field/Pool or Exploratory? Field and Pool Field Name: COTTON DRAW Pool Name: Bone Spring

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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

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

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: Number: 13\_1

SNDDNS\_24S30E

Well Class: HORIZONTAL Number of Legs: 1

Well Work Type: Drill
Well Type: OIL WELL
Describe Well Type:

Well sub-Type: INFILL

Describe sub-type:

Distance to town: Distance to nearest well: 30 FT Distance to lease line: 533 FT

Reservoir well spacing assigned acres Measurement: 959 Acres

Well plat: NIMITZMDP113\_1FEDCOM11H\_SitePlan\_20241202094934.pdf

NIMITZMDP113\_1FEDCOM11H\_C102\_20250403083307.pdf

Well work start Date: 12/02/2025 Duration: 45 DAYS

### **Section 3 - Well Location Table**

Survey Type: RECTANGULAR

**Describe Survey Type:** 

Datum: NAD83 Vertical Datum: NAVD88

Survey number: Reference Datum: GROUND LEVEL

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
SHL Leg #1	533	FSL	151 1	FW L	24S	30E	13	Aliquot SESW	32.21209 72	- 103.8380 821	EDD Y	1	NEW MEXI CO	F	NMNM 120897	346 2			N
KOP Leg #1	50	FSL	775	FW L	24S	30E	13	Aliquot SWS W	32.21077 3	- 103.8404 68	EDD Y		NEW MEXI CO	F	NMNM 120897	- 504 0	858 0	850 2	N

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce from this
PPP	100	FSL	775	FW	24S	30E	13	Aliquot	32.21091	-	EDD	NEW		F	NMNM	-	962	913	Υ
Leg #1-1				L				SWS W	04	103.8404 675	Y	MEXI CO	MEXI CO		120897	567 7	2	9	
PPP	132	FNL	763	FW	24S	30E	13	Aliquot	32.22152	-	EDD	NEW	NEW	F	NMNM	-	133	912	Υ
Leg	2			L				NWN	81	103.8404 601	Υ	MEXI CO	MEXI CO		82896	566 0	15	2	
#1-2								W		001			CO			0			
PPP	0	FNL	778	FW	24S	30E	1	Aliquot	32.23962		EDD		NEW	F	NMNM	-	198	909	Υ
Leg				L				SWS	47	103.8404 474	Υ	MEXI CO	MEXI CO		97133	562 9	99	1	
#1-3								W		4/4		CO	CO			9			
EXIT	100	FNL	775	FW	24S	30E	1	Lot	32.25388		EDD		NEW	F	NMNM	-	250	906	Y
Leg				L				4	45	103.8404 374	Y	MEXI CO	MEXI CO		97133	560 5	86	7	
#1										37 T						J			
BHL	20	FNL	775	FW	24S	30E	1	Lot	32.25410		EDD		NEW	F	NMNM	-	250		N
Leg				L				4	44	103.8404 371	Y	MEXI CO	MEXI CO		97133	560 6	87	8	
#1																			



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

### Drilling Plan Data Report 10/07/2025

APD ID: 10400102348

Submission Date: 12/16/2024

Highlighted data reflects the most recent changes

**Operator Name: OXY USA INCORPORATED** 

Well Number: 11H

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM 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 Formatio
16276655	RUSTLER	3462	491	491	ANHYDRITE, DOLOMITE, SHALE	USEABLE WATER	N
16276656	SALADO	2610	852	852	ANHYDRITE, DOLOMITE, HALITE, SHALE	OTHER : SALT	N
16276657	CASTILE	775	2687	2687	ANHYDRITE	OTHER : SALT	N
16276658	DELAWARE	-660	4122	4122	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16276659	BELL CANYON	-691	4153	4153	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16276660	CHERRY CANYON	-1606	5068	5072	SANDSTONE, SILTSTONE	NATURAL GAS, OIL, OTHER : BRINE	Y
16276661	BRUSHY CANYON	-2828	6290	6319	SANDSTONE, SILTSTONE	OTHER : LOSSES	N
16276662	BONE SPRING	-4533	7995	8062	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y
16276663	BONE SPRING 1ST	-5481	8943	9062	LIMESTONE, SANDSTONE, SILTSTONE	NATURAL GAS, OIL	Y

### **Section 2 - Blowout Prevention**

Pressure Rating (PSI): 5M Rating Depth: 9138

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

Requesting Variance? YES

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

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. OXY requests permission to adjust the BOP break testing requirements as per the agreement reached in the OXY/BLM meeting on September 5, 2019. See the attached BOP Break Testing variance.

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

### **Choke Diagram Attachment:**

NIMITZMDP113\_1FEDCOM11H\_ChkManifolds\_20241202115814.pdf

### **BOP Diagram Attachment:**

NIMITZMDP113\_1FEDCOM11H\_BOP\_20241202115824.pdf

NIMITZMDP113\_1FEDCOM11H\_FlexHoseCert\_20241202115841.pdf

NIMITZMDP113\_1FEDCOM11H\_13inADAPT\_10.75in\_7.625in\_10x10\_20241202115849.pdf

### **Section 3 - Casing**

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	10.75	NEW	API	N	0	792	0	792	3462	2670	792	J-55	45.5	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
	INTERMED IATE	9.87 5	7.625	NEW	API	N	0	8480	0	8402	3698	-4940	8480	HCL -80	26.4	BUTT	1	1.1	BUOY	1.4	BUOY	1.4
	PRODUCTI ON	6.75	5.5	NEW	API	N	0	24745	0	9138	3698	-5676	24745	P- 110		OTHER - SPRINT-SF	1	1.1	BUOY	1.4	BUOY	1.4

### **Casing Attachments**

Casing ID: 1 String SURFACE

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

NIMITZMDP113\_1FEDCOM11H\_CsgCriteria\_20241202120236.pdf

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

### **Casing Attachments**

Casing ID: 2

String

**INTERMEDIATE** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

NIMITZMDP113\_1FEDCOM11H\_CsgCriteria\_20241202120354.pdf

Casing ID: 3

String

**PRODUCTION** 

**Inspection Document:** 

**Spec Document:** 

**Tapered String Spec:** 

Casing Design Assumptions and Worksheet(s):

NIMITZMDP113\_1FEDCOM11H\_CsgCriteria\_20241202120442.pdf

NIMITZMDP113\_1FEDCOM11H\_VAM\_SPRINT\_SF\_5.5in\_20ppf\_P110RY\_20241202120457.pdf

### **Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	792	663	1.33	14.8	882	100	Class C	Accelerator

INTERMEDIATE	Lead	2	0	6569	1015	1.71	13.3	1736	25	Class C	Accelerator

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Lead	2	6569	8480	257	1.68	13.2	432	5	Class C	Retarder, Dispersant

PRODUCTION	Lead	7980	2474	950	1.84	13.3	1748	25	Class C	Retarder
			5							

### **Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

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

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

### **Circulating Medium Table**

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
0	792	WATER-BASED MUD	8.6	8.8							
792	8480	OTHER: SATURATED BRINE-BASED OR OIL-BASED MUD	8	10							
8480	2474 5	OTHER : WATER-BASED MUD OR OIL-	8	9.6							Page 4 of 6

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

Top Depth

Bottom Depth

GG
Mud Type

Min Weight (lbs/gal)

Max Weight (lbs/gal)

Density (lbs/cu ft)

Gel Strength (lbs/100 sqft)

Viscosity (CP)

Salinity (ppm)

Filtration (cc)

Filtration (cc)

### **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: 4562** 

**Anticipated Surface Pressure: 2551** 

Anticipated Bottom Hole Temperature(F): 154

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

Describe:

**Contingency Plans geoharzards description:** 

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

NIMITZMDP113\_1FEDCOM11H\_H2S1\_20241205082548.pdf NIMITZMDP113\_1FEDCOM11H\_H2S2\_20241205082554.pdf

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

### **Section 8 - Other Information**

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

NimitzMDP113\_1FedCom11H\_DirectPlan\_20250210123727.pdf

### Other proposed operations facets description:

### Other proposed operations facets attachment:

NIMITZMDP113\_1FEDCOM11H\_SpudRigData\_20241205083122.pdf

NIMITZMDP113\_1FEDCOM11H\_NGMP\_WMP\_20241205083425.pdf

NIMITZMDP113\_1FEDCOM11H\_DrillPlan\_20250210123704.pdf

NIMITZMDP113\_1FEDCOM11H\_Blanket\_Design\_A\_\_OXY\_\_3S\_Slim\_v7.1\_20250210123712.pdf

NIMITZMDP113\_1FEDCOM11H\_Blanket\_Design\_A\_Pad\_Review\_Document\_20250210123719.pdf

### Other Variance request(s)?: Y

#### Other Variance attachment:

NIMITZMDP113\_1FEDCOM11H\_BradenheadCBLVariance\_20241205083652.pdf

NIMITZMDP113\_1FEDCOM11H\_BOPBreakTestingVariance\_20241205083726.pdf

NIMITZMDP113\_1FEDCOM11H\_OfflineCementVariance\_20241205083734.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT SUPO Data Report

10/07/2025

**APD ID:** 10400102348

Operator Name: OXY USA INCORPORATED

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM

Well Type: OIL WELL

Submission Date: 12/16/2024

Well Number: 11H

Well Work Type: Drill

Highlighted data reflects the most recent changes

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### **Section 1 - Existing Roads**

Will existing roads be used? YES

**Existing Road Map:** 

NIMITZMDP113\_1FEDCOM11H\_ExistingRoads\_20250210123834.pdf

Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

**Existing Road Improvement Description:** 

**Existing Road Improvement Attachment:** 

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

**New Road Map:** 

NIMITZMDP113\_1FEDCOM11H\_NewRoads\_20241205083949.pdf

New road type: LOCAL

Length: 1557

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 0

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 20

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

New road access plan or profile prepared? N

New road access plan

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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:** 

NIMITZMDP113\_1FEDCOM11H\_1\_Mile\_Existing\_Well\_Map\_20241205084448.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 that the well is found productive, the SENM SC 18 SC tank battery would be utilized and the necessary production equipment will be installed at the well site.

**Production Facilities map:** 

NIMITZMDP113\_1FEDCOM11H\_LeaseFacility\_20241205084530.pdf

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

### **Section 5 - Location and Types of Water Supply**

#### **Water Source Table**

Water source type: GW WELL

Water source use type: SURFACE CASING

OTHER Describe use type: DRILLING

INTERMEDIATE/PRODUCTION

**CASING** 

Source latitude: Source longitude:

Source datum:

City:

Water source permit type: WATER WELL

Water source transport method: TRUCKING

**PIPELINE** 

Source land ownership: COMMERCIAL

Source transportation land ownership: COMMERCIAL

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

Source volume (gal): 84000

#### Water source and transportation

NIMITZMDP113\_1FEDCOM11H\_WtrCalicheSourceMap\_20241205101813.pdf

NIMITZMDP113\_1FEDCOM11H\_WtrGRRSrc\_20241205101819.pdf NIMITZMDP113\_1FEDCOM11H\_WtrMesqSrc\_20241205101825.pdf

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

New water well? N

#### **New Water Well Info**

Well latitude: Well Longitude: Well datum:

Well target aquifer:

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

**Aquifer comments:** 

Aquifer documentation:

Well depth (ft): Well casing type:

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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**

NIMITZMDP113 1FEDCOM11H WtrCalicheSourceMap 20241205102058.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: 1616 barrels

Waste disposal frequency: Daily

Safe containment description: Haul-Off Bins

Safe containment attachment:

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

**FACILITY** 

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.

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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

### **Reserve Pit**

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

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

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

### **Cuttings Area**

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Cuttings area length (ft.)

Cuttings area width (ft.)

Cuttings area depth (ft.)

Cuttings area volume (cu. yd.)

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

**Cuttings area liner** 

Cuttings area liner specifications and installation description

### **Section 8 - Ancillary**

Are you requesting any Ancillary Facilities?: N

**Ancillary Facilities** 

Comments:

Well Number: 11H Well Name: NIMITZ MDP1 13\_1 FEDERAL COM

#### **Section 9 - Well Site**

#### **Well Site Layout Diagram:**

NIMITZMDP113\_1FEDCOM11H\_SitePlan\_20241205102234.pdf NIMITZMDP113\_1FEDCOM11H\_CL\_20241205102243.pdf

Comments:

### **Section 10 - Plans for Surface**

Type of disturbance: New Surface Disturbance Multiple Well Pad Name: SNDDNS 24S30E

Multiple Well Pad Number: 13 1

### Recontouring

NIMITZMDP113\_1FEDCOM11H\_SitePlan\_20241205103426.pdf NIMITZMDP113 1FEDCOM11H Cut Fill 20241205104333.pdf

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

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

Well pad proposed disturbance

(acres): 14.34

Road proposed disturbance (acres):

1.07

Powerline proposed disturbance

Total proposed disturbance: 61.56

(acres): 2.36

Pipeline proposed disturbance

(acres): 43.79

Other proposed disturbance (acres): 0 Other interim reclamation (acres): 0

Road interim reclamation (acres): 0.36 Road long term disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

Pipeline interim reclamation (acres):

23.2

Total interim reclamation: 27.33

Well pad interim reclamation (acres): Well pad long term disturbance

(acres): 12.93

0.71

(acres): 0

Pipeline long term disturbance

(acres): 20.59

Other long term disturbance (acres): 0

Total long term disturbance:

34.230000000000004

#### **Disturbance Comments:**

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

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

Soil treatment: To be determined by BLM.

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

**Existing Vegetation at the well pad** 

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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 Type** 

**Seed Table** 

**Seed Summary** 

Pounds/Acre

**Total pounds/Acre:** 

Seed reclamation

**Operator Contact/Responsible Official** 

First Name: Michael Last Name: Wilson

Phone: (575)631-6618 Email: michael\_wilson@oxy.com

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? N

Existing invasive species treatment description:

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

**Existing invasive species treatment** 

Weed treatment plan description: To be determined by BLM.

Weed treatment plan

Monitoring plan description: To be determined by BLM.

Monitoring plan

Success standards: To be determined by BLM.

Pit closure description: NA

Pit closure attachment:

### **Section 11 - Surface**

Disturbance type: WELL PAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

**BOR Local Office:** 

**COE Local Office:** 

**DOD Local Office:** 

**NPS Local Office:** 

**State Local Office:** 

**Military Local Office:** 

**USFWS Local Office:** 

**Other Local Office:** 

**USFS** Region:

USFS Forest/Grassland:

**USFS** Ranger District:

Disturbance type: NEW ACCESS ROAD

Describe:

Surface Owner: BUREAU OF LAND MANAGEMENT

Other surface owner description:

**BIA Local Office:** 

Operator Name: OXY USA INCORPORATED	
Well Name: NIMITZ MDP1 13_1 FEDERAL COM	Well Number: 11H
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:

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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** 

NIMITZMDP113\_1FEDCOM11H\_StakingForm\_20241205105013.pdf NIMITZMDP113\_1FEDCOM11H\_NGMP\_WMP\_20241205105024.pdf



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT PWD Data Report

PWD disturbance (acres):

**APD ID:** 10400102348 **Submission Date:** 12/16/2024

**Operator Name: OXY USA INCORPORATED** 

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

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:

Other PWD Surface Owner Description:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit

Pit liner description:

Pit liner manufacturers

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule

Lined pit reclamation description:

Lined pit reclamation

Leak detection system description:

Leak detection system

Released to Imaging: 10/14/2025 2:40:19 PM

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

**Lined pit Monitor description:** 

**Lined pit Monitor** 

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information

### **Section 3 - Unlined**

Would you like to utilize Unlined Pit PWD options? N

**Produced Water Disposal (PWD) Location:** 

PWD disturbance (acres):

PWD surface owner:

Other PWD Surface Owner Description:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule

Unlined pit reclamation description:

Unlined pit reclamation

Unlined pit Monitor description:

**Unlined pit Monitor** 

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

Beneficial use user

Estimated depth of the shallowest aquifer (feet):

**Precipitated Solids Permit** 

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

TDS lab results:

Geologic and hydrologic

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

#### **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:

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM Well Number: 11H

### 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** 

10/07/2025

APD ID: 10400102348

Submission Date: 12/16/2024

Highlighted data reflects the most recent changes

**Show Final Text** 

**Operator Name: OXY USA INCORPORATED** 

Well Name: NIMITZ MDP1 13\_1 FEDERAL COM

Well Type: OIL WELL

Well Number: 11H

Well Work Type: Drill

#### **Bond**

Federal/Indian APD: FED

**BLM Bond number:** ESB000226

**BIA Bond number:** 

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

**BLM** reclamation bond number:

Forest Service reclamation bond number:

**Forest Service reclamation bond attachment:** 

**Reclamation bond amount:** 

**Reclamation bond rider amount:** 

Additional reclamation bond information attachment:

Form 3160-3 FORM APPROVED OMB No. 1004-0220 (October 2024) Expires: October 31, 2027 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM120897 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone NIMITZ MDP1 13 1 FEDERAL COM 11H 2. Name of Operator 9. API Well No. **OXY USA INCORPORATED** 30-015-57371 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 5 GREENWAY PLAZA SUITE 110, HOUSTON, TX 77046 (713) 366-5716 COTTON DRAW/Bone Spring 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 13/T24S/R30E/NMP At surface SESW / 533 FSL / 1511 FWL / LAT 32.2120972 / LONG -103.8380821 At proposed prod. zone LOT 4 / 20 FNL / 775 FWL / LAT 32.2541044 / LONG -103.8404371 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13 State **EDDY** NM 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 533 feet location to nearest property or lease line, ft. 959.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 9068 feet / 25087 feet FED: ESB000226 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3462 feet 12/02/2025 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 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 25. Signature Name (Printed/Typed) Date SARA GUTHRIE / Ph: (713) 366-5716 (Electronic Submission) 12/16/2024 Title Regulatory Advisor Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) 08/27/2025 TANJA BACA / Ph: (575) 234-5940 Title Office Supervisory Land Law Examiner Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction Per 19.15.14.9 NMAC, OXY USA Inc. certifies no addition of PFAS chemicals to fluids used in the completion or recompletion of the subject well.

(Continued on page 2)

APPROVED WITH CONDITIONS Released to Imaging: 10/14/2025 2:40:19 PM Approval Date: 08/27/2025

\*(Instructions on page 2)

### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: SESW / 533 FSL / 1511 FWL / TWSP: 24S / RANGE: 30E / SECTION: 13 / LAT: 32.2120972 / LONG: -103.8380821 (TVD: 0 feet, MD: 0 feet )

PPP: SWSW / 0 FNL / 778 FWL / TWSP: 24S / RANGE: 30E / SECTION: 1 / LAT: 32.2396247 / LONG: -103.8404474 (TVD: 9091 feet, MD: 19899 feet )

PPP: NWNW / 1322 FNL / 763 FWL / TWSP: 24S / RANGE: 30E / SECTION: 13 / LAT: 32.2215281 / LONG: -103.8404601 (TVD: 9122 feet, MD: 13315 feet )

PPP: SWSW / 100 FSL / 775 FWL / TWSP: 24S / RANGE: 30E / SECTION: 13 / LAT: 32.2109104 / LONG: -103.8404675 (TVD: 9139 feet, MD: 9622 feet )

BHL: LOT 4 / 20 FNL / 775 FWL / TWSP: 24S / RANGE: 30E / SECTION: 1 / LAT: 32.2541044 / LONG: -103.8404371 (TVD: 9068 feet, MD: 25087 feet )

#### **BLM Point of Contact**

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

Email: TCMOLINA@BLM.GOV

0 102
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Submit Electronically Via OCD Permitting

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

Revised July 9,	2024
PAGE 1 OF 2	

Submittal Type: ☐ Amended Report
☐ As Drilled

#### WELL LOCATION INFORMATION

					WELL LOCATIO	NINFORMATION				
API Nun		4	Pool Code	Pool Name					_	
30-015- <mark>57371</mark>				7	COTTON DRAW; BONE SPRING					
Property			Property Na	me				Well Number		
	33106	1			NIMITZ MDP1	13_1 FED COM		11H	-	
OGRID	No.		Operator Na	me				Ground Level Elevati	on	
	16696				OXY US	SA INC.		3462	2'	
Surface	Owner:	State I	Fee Tri	bal 🔽	Federal	Mineral Owner:	State Fee 5	Tribal 🗹 Federal		
Surface Location										
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County	
N	13	24S	30E		533' FSL	1511' FWL	32.21209721	-103.83808219	EDDY	
	•	•	•		Bottom Hol	le Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County	
	01	24S	30E	4	20' FNL	775' FWL	32.25410444	-103.84043714	EDDY	
Dedicate	ed Acres	Infill or Defini	ng Well	Defining Well API		Overlapping Spacing Unit (Y/N)		Consolidation Code		
95	59.85	INFILL		PEND	PENDING- NIMITZ 32H NO					
Order N	Numbers:				Well setbacks are under Common Ownership:				)	
					Kick Off Po	oint (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County	
M	13	24S	30E		50' FSL	775' FWL	32.21077300	-103.84046803	EDDY	
					First Take I	Point (FTP)		_		
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County	
M	13	24S	30E		100' FSL	775' FWL	32.21091043	-103.84046759	EDDY	
				•	Last Take I	Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude (NAD83)	Longitude (NAD83)	County	
	01	24S	30E	4	100' FNL	775' FWL	32.25388453	-103.84043746	EDDY	
Unitized	Area or Area	of Uniform Intere	est				Ground Floor E	levation		
				Spacing	g Unit Type: X Horizo	ontal Vertical		3462'		
				-						

#### 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 2/10/2025
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

JANUARY 30, 2025

- X: 692941.17' / Y:453905.40' - X: 692932.31' / Y:456540.49'





/ Y:448569.53 Y:451208.92

: 651786.69' / 651766.14' /

X: 651757.41' / Y:453846.29







TOTAL



15633.60

JOB No. R4073 004 14596 REV 2 NDS 1/28/2025

### 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 <u>Effective May 25, 2021</u>

I. Operator: OXY US	OGRID: _16	OGRID: 16696			Date: 1 1 / 2 0 / 2 4				
<b>II. Type:</b> ✓ 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 be recompleted from a s					wells pr	oposed to	be dril	led or proposed to	
Well Name	Well Name API		Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated Produced Water BBL/D		
IV. Central Delivery Po	oint Name: S	ENM SC 18 SC				[See 19	9.15.27	7.9(D)(1) NMAC]	
V. Anticipated Schedul proposed to be recomple					vell or so	et of wells	propos	sed to be drilled or	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Fl Back D		First Production Date	
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. $\square$ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural	gas gathering system 🗆 w	vill □ will not have	capacity to gather	100% of the anticipated	natural gas
production volume from the well p	prior to the date of first pro	oduction.			

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

_									
1 1	Attach (	Onaratar	'a nlan	to monogo	nroduction	in recnance	to the inc	creased line p	raccure

XIV. Confidentiality:   Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided	d 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 informa	tion
for which confidentiality is asserted and the basis for such assertion.	

(i)

## Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal: Departor 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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

other alternative beneficial uses approved by the division.

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

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

Signature: Sara Guthrie
Printed Name: Sara Guthrie
Title: Regulatory Advisor
E-mail Address: sara_guthrie@oxy.com
Date: 11/20/2024
Phone: 713-497-2851
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Page 34 of 170

### III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
NIMITZ MDP1 13_1 FED COM 11H	PENDING	N-13-T24S-R30E	533 FSL & 1511 FWL	1800	3,100	5800
NIMITZ MDP1 13_1 FED COM 12H	PENDING	N-13-T24S-R30E	533 FSL & 1541 FWL	1800	3,100	5800
NIMITZ MDP1 13_1 FED COM 13H	PENDING	O-13-T24S-R30E	284 FSL & 1490 FEL	1800	3,100	5800
NIMITZ MDP1 13_1 FED COM 14H	PENDING	O-13-T24S-R30E	284 FSL & 1460 FEL	1800	3,100	5800
NIMITZ MDP1 13_1 FED COM 21H	PENDING	N-13-T24S-R30E	533 FSL & 1601 FWL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 22H	PENDING	N-13-T24S-R30E	533 FSL & 1631 FWL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 23H	PENDING	N-13-T24S-R30E	532 FSL & 1661 FWL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 24H	PENDING	O-13-T24S-R30E	284 FSL & 1400 FEL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 25H	PENDING	O-13-T24S-R30E	284 FSL & 1370 FEL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 26H	PENDING	O-13-T24S-R30E	283 FSL & 1340 FEL	2700	11,000	6700
NIMITZ MDP1 13_1 FED COM 2H	PENDING	O-13-T24S-R30E	937 FSL & 2444 FEL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 310H	PENDING	N-13-T24S-R30E	743 FSL & 1511 FWL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 314H	PENDING	N-13-T24S-R30E	743 FSL & 1541 FWL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 315H	PENDING	O-13-T24S-R30E	494 FSL & 1489 FEL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 316H	PENDING	O-13-T24S-R30E	494 FSL & 1459 FEL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 31H	PENDING	N-13-T24S-R30E	742 FSL & 1721 FWL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 32H	PENDING	N-13-T24S-R30E	742 FSL & 1751 FWL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 33H	PENDING	N-13-T24S-R30E	742 FSL & 1781 FWL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 34H	PENDING	P-13-T24S-R30E	493 FSL & 1309 FEL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 35H	PENDING	P-13-T24S-R30E	493 FSL & 1279 FEL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 36H	PENDING	P-13-T24S-R30E	493 FSL & 1249 FEL	2500	4,200	3900
NIMITZ MDP1 13_1 FED COM 3H	PENDING	O-13-T24S-R30E	951 FSL & 2417 FEL	1500	1750	1750
NIMITZ MDP1 13_1 FED COM 41H	PENDING	N-13-T24S-R30E	743 FSL & 1601 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 42H	PENDING	N-13-T24S-R30E	742 FSL & 1661 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 43H	PENDING	N-13-T24S-R30E	532 FSL & 1721 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 44H	PENDING	N-13-T24S-R30E	532 FSL & 1781 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 45H	PENDING	O-13-T24S-R30E	493 FSL & 1369 FEL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 46H	PENDING	P-13-T24S-R30E	283 FSL & 1280 FEL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 47H	PENDING	N-13-T24S-R30E	743 FSL & 1631 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 48H	PENDING	N-13-T24S-R30E	532 FSL & 1751 FWL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 49H	PENDING	O-13-T24S-R30E	494 FSL & 1399 FEL	2600	13100	11600
NIMITZ MDP1 13_1 FED COM 50H	PENDING	P-13-T24S-R30E	283 FSL & 1250 FEL	2600	13100	11600

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### V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
NIMITZ MDP1 13_1 FED COM 11H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 12H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 13H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 14H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 21H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 22H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 23H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 24H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 25H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 26H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 2H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 310H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 314H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 315H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 316H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 31H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 32H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 33H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 34H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 35H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 36H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 3H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 41H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 42H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 43H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 44H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 45H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 46H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 47H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 48H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 49H	TBD	TBD	TBD	TBD	TBD	TBD
NIMITZ MDP1 13_1 FED COM 50H	TBD	TBD	TBD	TBD	TBD	TBD

Central Delivery Point Name: SENM SC 18 SC

### Part VI. Separation Equipment

Operator will size the flowback separator to handle 12,000 Bbls of fluid and 6-10MMscfd which is more than the expected peak rates for these wells. 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).

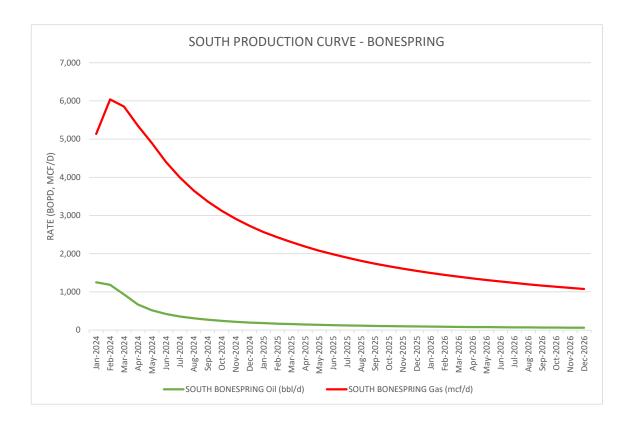
Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

### **VIII. Best Management Practices**

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

- Power Generation On lease
- oOnly a portion of gas is consumed operating the generator, remainder of gas will be flared
- •Compressed Natural Gas On lease
- oGas flared would be minimal, but might be uneconomical to operate when gas volume declines
- •NGL Removal On lease
- oPlants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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



# Oxy USA Inc. - NIMITZ MDP1 13\_1 FED COM 11H Drill Plan

### 1. Geologic Formations

TVD of Target (ft):	9138	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	24745	Deepest Expected Fresh Water (ft):	491

#### **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	491	491	
Salado	852	852	Salt
Castile	2687	2687	Salt
Delaware	4122	4122	Oil/Gas/Brine
Bell Canyon	4153	4153	Oil/Gas/Brine
Cherry Canyon	5072	5068	Oil/Gas/Brine
Brushy Canyon	6319	6290	Losses
Bone Spring	8062	7995	Oil/Gas
Bone Spring 1st	9062	8943	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

### 2. Casing Program

		N	ID	T۱	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	792	0	792	10.75	45.5	J-55	BTC
Intermediate	9.875	0	8480	0	8402	7.625	26.4	L-80 HC	BTC
Production	6.75	0	24745	0	9138	5.5	20	P-110	Sprint-SF

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

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1	All Casing SF Values will meet or exceed						
	those below						
	SF	SF	Body SF	Joint SF			
	٠.	٥.	Dody 31	301116 31			
	Collapse	<u> </u>	•	Tension			

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

NIMITZ MDP1 13\_1 FED COM 11H

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3. Cementing Program

J. CCITICI	s. cementing riogram									
Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description	
Surface	1	Surface - Tail	663	1.33	14.8	100%	-	Circulate	Class C+Accel.	
Int.	1	Intermediate 1S - Tail	257	1.68	13.2	5%	6,569	Circulate	Class C+Ret., Disper.	
Int.	2	Intermediate 2S - Tail BH	1015	1.71	13.3	25%	-	Bradenhead	Class C+Accel.	
Prod.	1	Production - Tail	950	1.84	13.3	25%	7,980	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.

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4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	1	Tested to:	Deepest TVD Depth (ft) per Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		8402
9.875" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	
				Double Ram	✓	230 psi / 3000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
	13-5/8"			Blind Ram	✓		
6.75" Hole		5M		Pipe Ram		250 psi / 5000 psi	9138
				Double Ram		230 psi / 3000 psi	
			Other*				

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

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

<sup>\*</sup>Specify if additional ram is utilized

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

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

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

Are anchors required by manufacturer?

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

See attached schematics.

#### **BOP Break Testing Request**

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

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

NIMITZ MDP1 13\_1 FED COM 11H

5. Mud Program

~	Depth - MD		Depth - TVD			Weight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	792	0	792	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	792	8480	792	8402	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8480	24745	8402	9138	Water-Based or Oil- Based Mud	8.0 - 9.6	38-50	N/C

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

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

6. Logging and Testing Procedures

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

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

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### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4562 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	154°F

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

LIE DL	LIVI:
Ν	H2S is present
Υ	H2S Plan attached

### 8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.  We plan to drill the 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: 1616 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.





### 1. Casing Program

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

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

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

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

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

### Design Variation "A1"

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

<sup>\*</sup>Curve could be in intermediate or production section

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

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

<sup>\*</sup>Curve could be in intermediate or production section

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

All Casing SF Values will meet or							
6	exceed the	ose below	,				
SF	SF SF Body SF Joint SF						
	٠.	Doug o.	301116 31				
Collapse		Tension					

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





### §Annular Clearance Variance Request

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

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

### 2. Trajectory / Boundary Conditions

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

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

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





### 3. Cementing Program

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

### Design Variation "A1"

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

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

### Design Variation "A2"

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

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

#### **Offline Cementing Request**

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

#### **Bradenhead CBL Request**

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





### 4. Pressure Control Equipment

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

<sup>\*</sup>Specify if additional ram is utilized

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

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

#### **5M Annular BOP Request**

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

<sup>\*\*</sup>Curve could be in intermediate or production section





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

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

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

Υ

Are anchors required by manufacturer?

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

See attached Schematics.

#### **BOP Break Testing Request**

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

#### **Hammer Union Variance**

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

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





### 5. Mud Program & Drilling Conditions

Continu	Depth	- MD	Depth	- TVD	T	Weight	<b>V</b> <sup>1</sup> • • • • • • • • • • • • • • • • • • •	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	1200	0	1200	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	1200	13111*	1200	12775*	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	13111	23361	12775	12775	Water-Based or Oil- Based Mud	9.5 - 13.5	38-50	N/C

<sup>\*</sup>Curve could be in intermediate or production section\*

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times. The following is a general list of products:

Barite, Bentonite, Gypsum, Lime, Soda Ash, Caustic Soda, Nut Plug, Cedar Fiber, Cotton Seed Hulls, Drilling Paper, Salt Water Clay, CACL2. Oxy will use a closed mud system.

### **Drilling Blind Request**

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

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

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

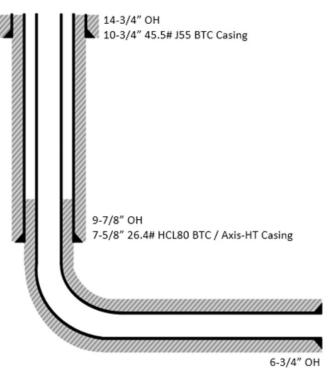
Pump high viscosity sweeps as needed for hole cleaning. The mud system will be monitored visually/manually as well as with an electronic PVT. The necessary mud products for additional weight and fluid loss control will be on location at all times. Appropriately weighted mud will be used to isolate potential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





### 6. Wellbore Diagram(s)

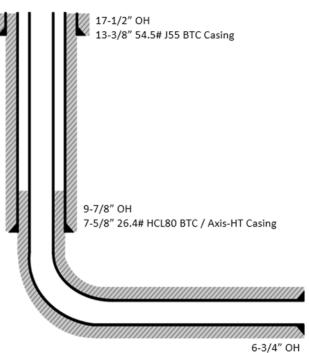
### Design Variation "A1"



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

TOC @ 500' Above Prev. CSG

### Design Variation "A2"



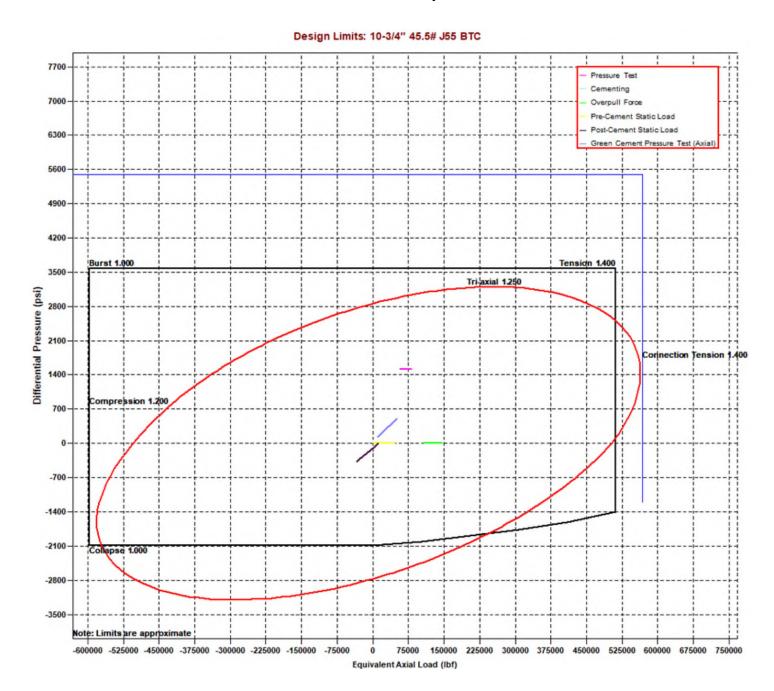
5-1/2" 20# P110 Wedge 461 / Sprint SF / DWC/C-HT-IS Casing

TOC @ 500' Above Prev. CSG



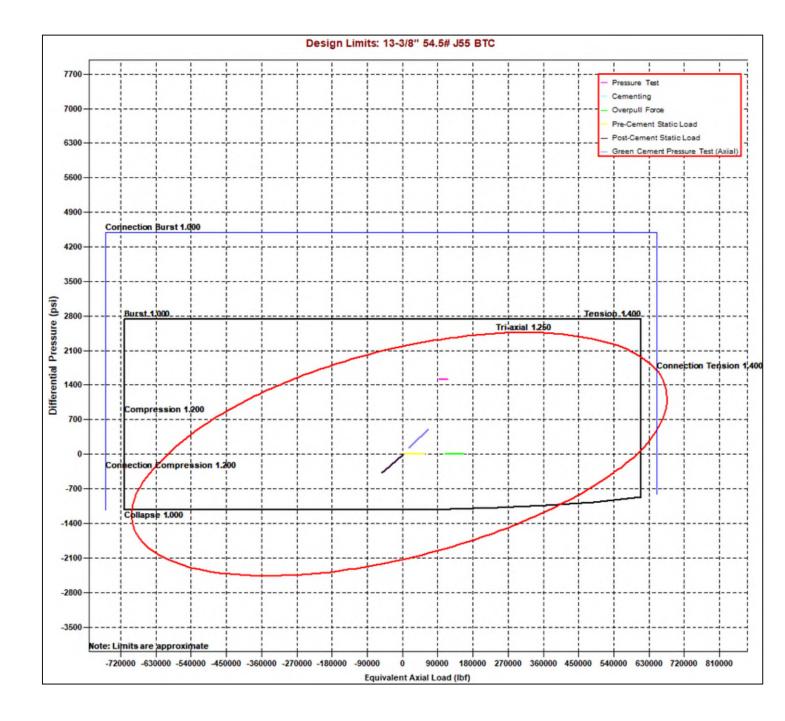


### 7. Landmark StressCheck Screenshots - Triaxial Output



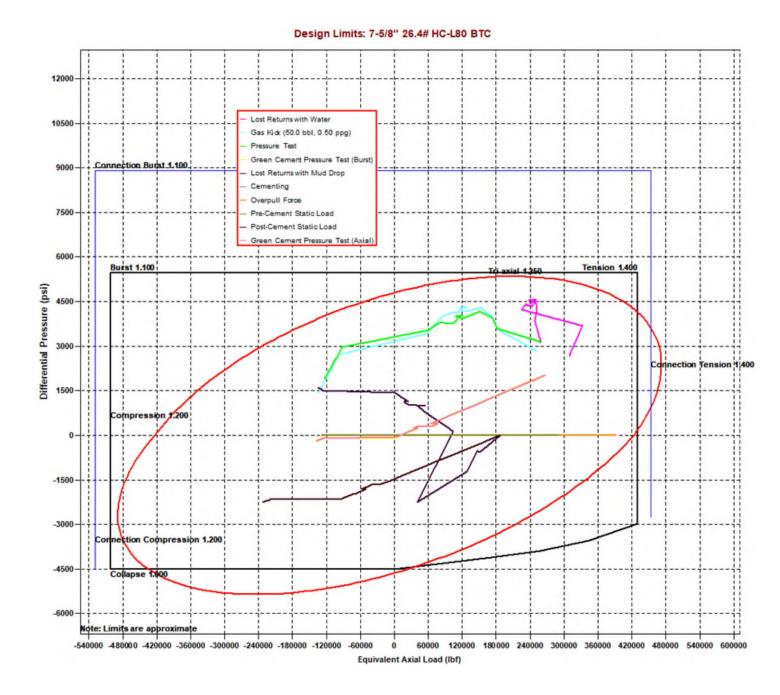








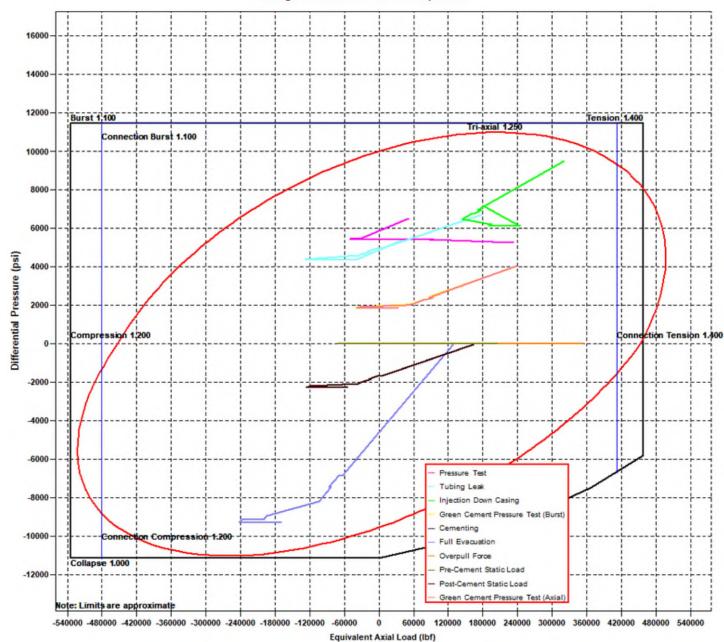










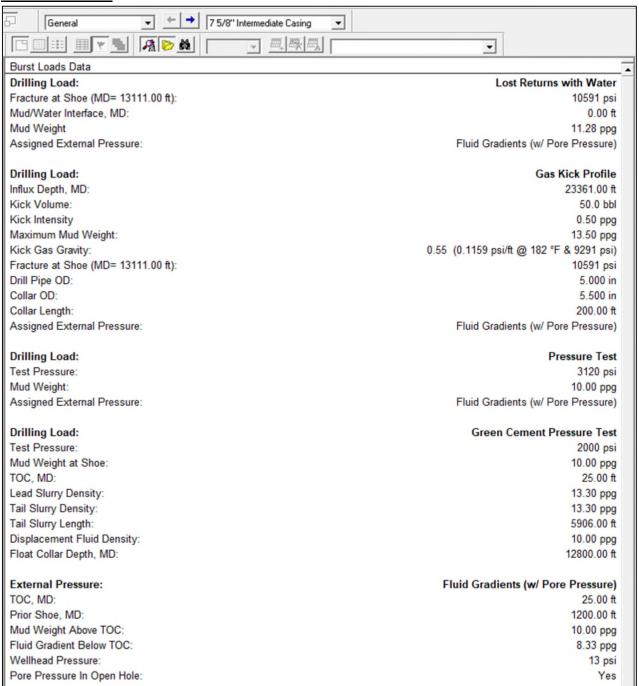






### 8. Landmark StressCheck Screenshots – Inputs for Intermediate CSG Load Cases

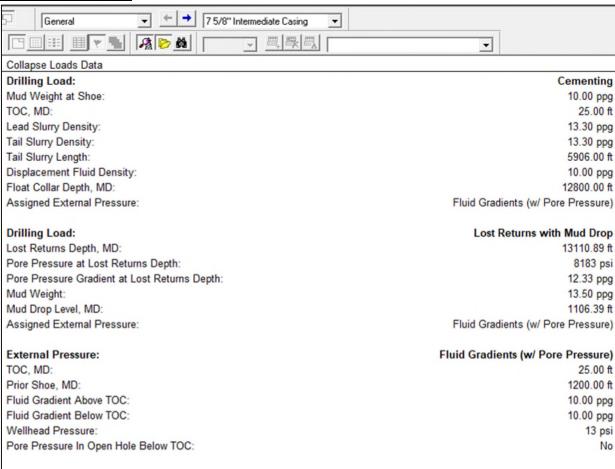
#### **Burst Load Cases**



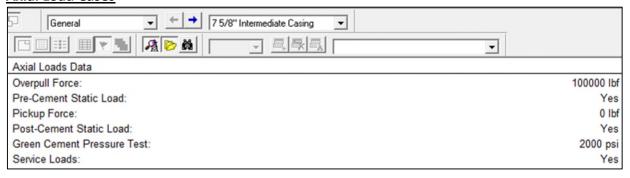




### **Collapse Load Cases**



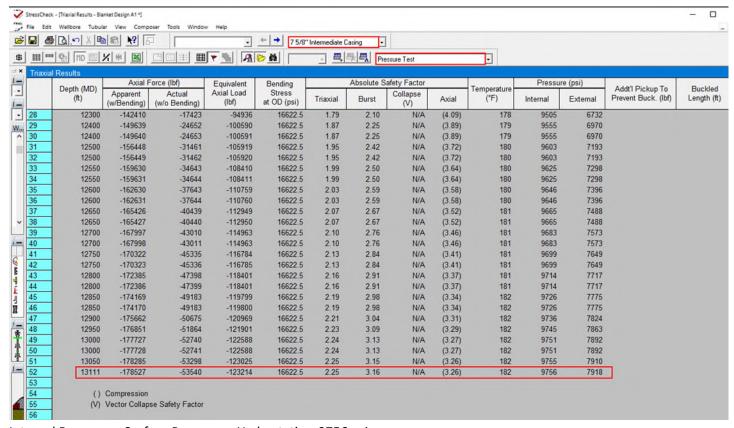
#### **Axial Load Cases**







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



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

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





### 10. Intermediate Non-API Casing Spec Sheet



### **Technical Data Sheet**

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

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

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600, www.axisoipeandtube.com





### 11. Production Non-API Casing Spec Sheets





	Printed on: 11/0
Coupling	Pipe Body
Grade: P1104CY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

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

#### Pipe Body Data

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

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

#### Connection Data

6.050 in.
7.714 in.
4.778 in.
3.775 in.
3.40
Ms

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

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

#### Notes

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

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

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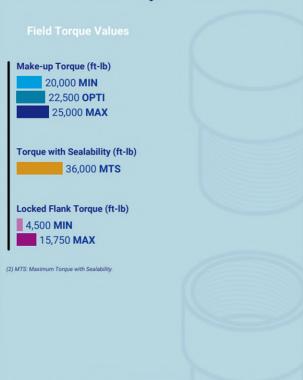


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#### CONNECTION DATA SHEET





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

#### **CONNECTION PROPERTIES** •

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

#### JOINT PERFORMANCES

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

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



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### **Connection Data Sheet**

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

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

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

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

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

† Maximum Operational Torque and Maximum Torsional Value only valid with Vallourec P110MY Material. ‡ P110MY - Coupling Min Yield Strength is 110ksi and Coupling Max Yield is 125ksi.

FPITOMY - Coupling Win Yield Strength is 110ks and Coupling Max Yield is 125ks

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

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

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

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

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#### **DWC Connection Data Sheet Notes:**

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

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

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# Oxy USA Inc. - Blanket Design Pad Document

# **OXY - Blanket Design A**

Pad Name: SNDDNS\_24S30E\_13\_1SHL: 533' FSL 1511' FWL, Sec 13, T24S-R30E

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

## 1. Blanket Design - Wells

Well Name	APD #	Sur	face	Intermediate		Production	
vveii name	APD#	MD	TVD	MD	TVD	MD	TVD
NIMITZ MDP1 13_1 FED COM 11H	N/A - New Permit	792	792	8484	8343	25167	9139
NIMITZ MDP1 13_1 FED COM 12H	N/A - New Permit	789	789	8455	8345	25138	9148

## 2. Review Criteria Table

	Y or N
Is casing new? If used, attach certification as required in 43 CFR 3160	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	ı
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	V
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?	Y
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	Y
1	•
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
In recall to note of in thick Cores/Marget?	l NI
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?	

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Occidental - Permian New Mexico
Pad Review Document - Blanket Design A

# 3. Geologic Formations

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	491	491	
Salado	852	852	Salt
Castile	2687	2687	Salt
Delaware	4122	4122	Oil/Gas/Brine
Bell Canyon	4153	4153	Oil/Gas/Brine
Cherry Canyon	5071	5068	Oil/Gas/Brine
Brushy Canyon	6332	6290	Losses
Bone Spring	8115	7995	Oil/Gas
Bone Spring 1st	9126	8943	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

# 4. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	663	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	255	1.68	13.2	5%	6,582	Circulate	Class C+Ret., Disper.
Int.	2	Intermediate 2S - Tail BH	1017	1.71	13.3	25%	ı	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	974	1.84	13.3	25%	7,984	Circulate	Class C+Ret.

### **Bradenhead Cement CBL Variance Request**

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

### Three string wells:

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

### Four string wells:

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

### **BOP Break Testing Request**

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

BOP break test under the following conditions:

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

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

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

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

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

See supporting information below:

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

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

### **Background**

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

#### **Supporting Rationale**

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

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

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

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

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

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

### Procedures

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

### Notes:

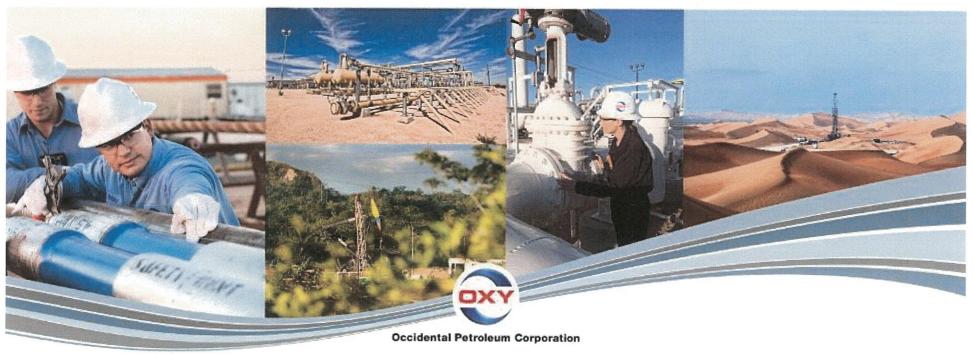
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step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

### **Summary**

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

### REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

**Permian Resources New Mexico** 



### Request for Variance

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

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

## Rationale for Allowing BOP Break Testing

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

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



## Rationale for Allowing BOP Break Testing

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

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



## Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

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

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

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



### Break Testing Procedures

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

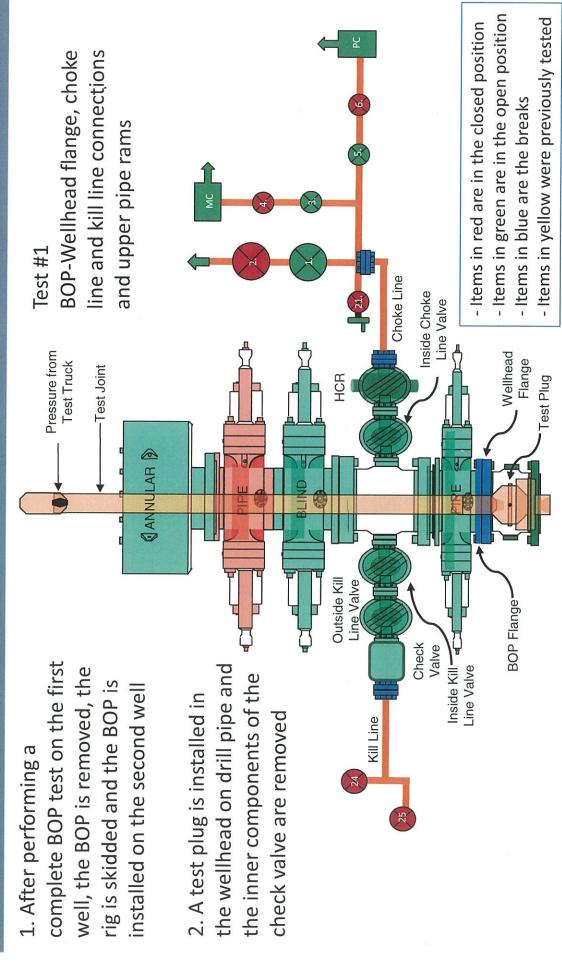


### Break Testing Procedures

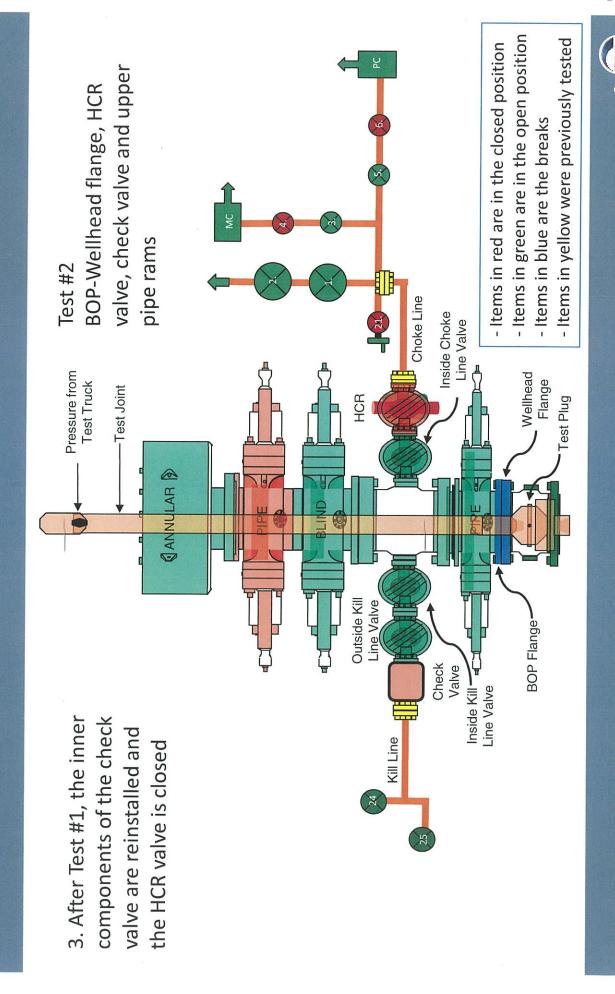
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD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



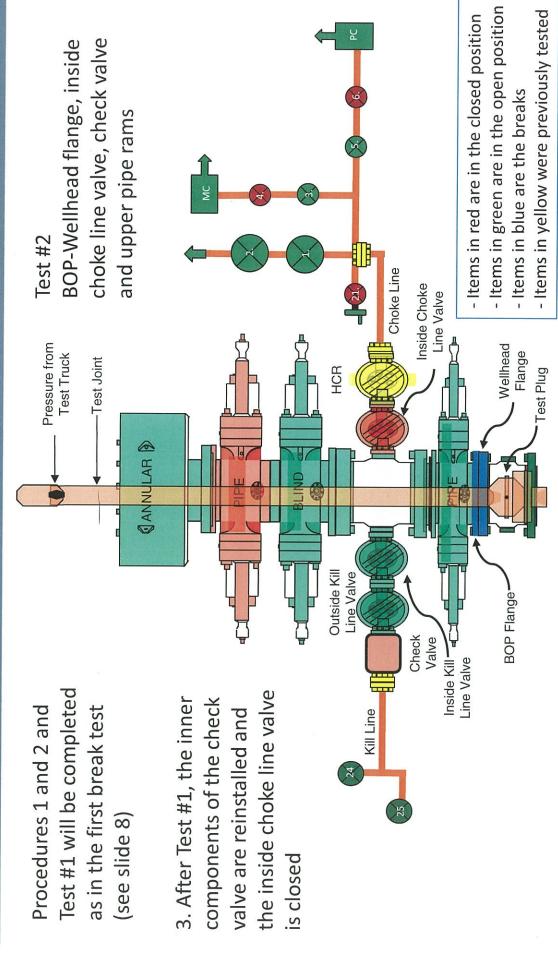
### **Break Testing Procedures and Tests**



### **Break Testing Procedures and Tests**



# Second Break Testing Procedures and Tests



### =

BOP standing in its carrier



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

**BOP Handling System** 

12

Wellhead

**BOP Handling System** 

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system moving the BOP over to the wellhead

Hydraulic winch

# Summary for Variance Request for Break Testing

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



### **Offline Cementing Variance Request**

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

### 1. Cement Program

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

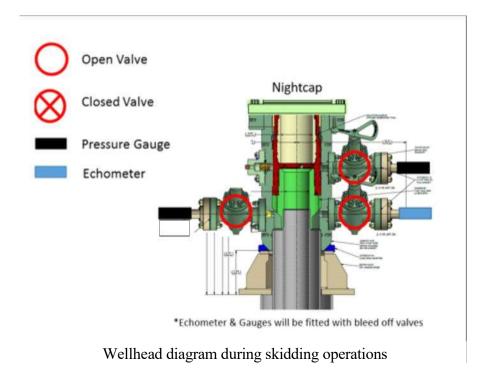
### 2. Offline Cementing Procedure

The operational sequence will be as follows:

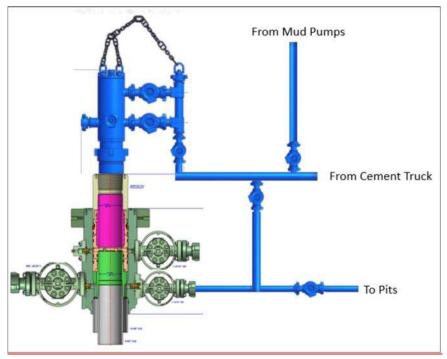
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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

Annular packoff with both external and internal seals





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



Wellhead diagram during offline cementing operations

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

PRD NM DIRECTIONAL PLANS (NAD 1983) Nimitz MDP1 13\_1 Nimitz MDP1 13\_1 Fed Com 11H

Wellbore #1

**Plan: Permitting Plan** 

### **Standard Planning Report**

31 January, 2025

North Reference:

**Survey Calculation Method:** 

### Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference: Well Nimitz MDP1 13\_1 Fed Com 11H

 TVD Reference:
 RKB=25' @ 3487.00ft

 MD Reference:
 RKB=25' @ 3487.00ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site Nimitz MDP1 13\_1

 Site Position:
 Northing:
 440,930.39 usft
 Latitude:
 32.211206

 From:
 Map
 Easting:
 695,931.15 usft
 Longitude:
 -103.833479

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Nimitz MDP1 13\_1 Fed Com 11H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 441,247.89 usf
 Latitude:
 32.212097

 +E/-W
 0.00 ft
 Easting:
 694,505.82 usf
 Longitude:
 -103.838082

Position Uncertainty2.00 ftWellhead Elevation:ftGround Level:3,462.00 ft

Grid Convergence: 0.26  $^{\circ}$ 

Wellbore #1

 Magnetics
 Model Name
 Sample Date (°)
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM\_FILE
 6/11/2024
 6.35
 59.73
 47,358.60000000

**Design** Permitting Plan

Audit Notes:

 Version:
 Phase:
 PROTOTYPE
 Tie On Depth:
 0.00

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

0.00 0.00 0.00 357.01

Plan Survey Tool Program Date 1/31/2025

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 24,745.14 Permitting Plan (Wellbore #1) B005Mc\_MWD+HRGM+SA

MWD+HRGM+Sag+MSA

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,180.00	0.00	0.00	4,180.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,380.03	12.00	232.53	5,371.28	-76.17	-99.38	1.00	1.00	0.00	232.53	
8,580.40	12.00	232.53	8,501.71	-480.95	-627.51	0.00	0.00	0.00	0.00	
9,555.32	90.27	359.77	9,137.63	89.64	-737.91	10.00	8.03	13.05	126.59	
24,745.32	90.27	359.77	9,066.90	15,279.36	-798.51	0.00	0.00	0.00	0.00 F	PBHL (Nimitz MDP1

Planning Report

Database: Company: Project:

Site:

HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

Diamed Comes		311							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1.300.00	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
1,500.00	0.00	0.00	1,500.00 1,600.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00	0.00
1,600.00	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
1,800.00 1,900.00	0.00 0.00	0.00 0.00	1,800.00 1,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 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
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	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
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	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
3,300.00	0.00	0.00	3,300.00	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
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,180.00	0.00	0.00	4,180.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 1°/100	)'								
4,200.00	0.20	232.53	4,200.00	-0.02	-0.03	-0.02	1.00	1.00	0.00
4,300.00	1.20	232.53	4,299.99	-0.76	-1.00	-0.71	1.00	1.00	0.00
4,400.00	2.20	232.53	4,399.95	-2.57	-3.35	-2.39	1.00	1.00	0.00
4,500.00	3.20	232.53	4,499.83	-5.43	-7.09	-5.06	1.00	1.00	0.00
4,600.00	4.20	232.53	4,599.62	-9.36	-12.21	-8.71	1.00	1.00	0.00
4,700.00	5.20	232.53	4,699.29	-14.34	-18.72	-13.35	1.00	1.00	0.00
4,800.00	6.20	232.53	4,798.79	-20.39	-26.60	-18.97	1.00	1.00	0.00
4,900.00	7.20	232.53	4,898.11	-27.48	-35.86	-25.57	1.00	1.00	0.00
5,000.00	8.20	232.53	4,997.20	-35.63	-46.49	-33.16	1.00	1.00	0.00
5,100.00	9.20	232.53	5,096.05	-44.84	-58.50	-41.72	1.00	1.00	0.00
5,200.00	10.20	232.53	5,194.62	-55.09	-71.87	-51.26	1.00	1.00	0.00

### Planning Report

Database: Company: Project:

Site:

HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

Design:	:	Permitting Pla	an							
Planne	d Survey									
	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	5,300.00	11.20	232.53	5,292.88	-66.38	-86.61	-61.77	1.00	1.00	0.00
	5,380.03	12.00	232.53	5,371.28	-76.17	-99.38	-70.88	1.00	1.00	0.00
	Hold 12° Ta									
	5,400.00 5,500.00	12.00	232.53	5,390.81	-78.69	-102.67	-73.23	0.00	0.00	0.00
	5,500.00	12.00 12.00	232.53 232.53	5,488.62 5,586.44	-91.34 -103.99	-119.18 -135.68	-85.00 -96.77	0.00 0.00	0.00 0.00	0.00 0.00
	5,700.00	12.00	232.53	5,684.25	-116.64	-152.18	-108.54	0.00	0.00	0.00
	5,800.00	12.00	232.53	5,782.07	-129.29	-168.68	-120.31	0.00	0.00	0.00
	5,900.00	12.00	232.53	5,879.88	-141.94	-185.19	-132.08	0.00	0.00	0.00
	6,000.00	12.00	232.53	5,977.70	-154.58	-201.69	-143.85	0.00	0.00	0.00
	6,100.00 6,200.00	12.00 12.00	232.53 232.53	6,075.51 6,173.33	-167.23 -179.88	-218.19 -234.69	-155.62 -167.39	0.00 0.00	0.00 0.00	0.00 0.00
										0.00
	6,300.00 6,400.00	12.00 12.00	232.53 232.53	6,271.14 6,368.96	-192.53 -205.18	-251.19 -267.70	-179.16 -190.92	0.00 0.00	0.00 0.00	0.00
	6,500.00	12.00	232.53	6,466.77	-217.82	-284.20	-202.69	0.00	0.00	0.00
	6,600.00	12.00	232.53	6,564.59	-230.47	-300.70	-214.46	0.00	0.00	0.00
	6,700.00	12.00	232.53	6,662.40	-243.12	-317.20	-226.23	0.00	0.00	0.00
	6,800.00	12.00	232.53	6,760.21	-255.77	-333.70	-238.00	0.00	0.00	0.00
	6,900.00 7,000.00	12.00 12.00	232.53 232.53	6,858.03 6,955.84	-268.42 -281.06	-350.21 -366.71	-249.77 -261.54	0.00 0.00	0.00 0.00	0.00 0.00
	7,100.00	12.00	232.53	7,053.66	-293.71	-383.21	-273.31	0.00	0.00	0.00
	7,200.00	12.00	232.53	7,151.47	-306.36	-399.71	-285.08	0.00	0.00	0.00
	7,300.00	12.00	232.53	7,249.29	-319.01	-416.22	-296.85	0.00	0.00	0.00
	7,400.00	12.00	232.53	7,347.10	-331.66	-432.72	-308.62	0.00	0.00	0.00
	7,500.00 7,600.00	12.00 12.00	232.53 232.53	7,444.92 7,542.73	-344.30 -356.95	-449.22 -465.72	-320.39 -332.16	0.00 0.00	0.00 0.00	0.00 0.00
	7,700.00	12.00	232.53	7,640.55	-369.60	-482.22	-343.93	0.00	0.00	0.00
	7,800.00	12.00	232.53	7,738.36	-382.25	-498.73	-355.70	0.00	0.00	0.00
	7,900.00	12.00	232.53	7,836.18	-394.90	-515.23	-367.47	0.00	0.00	0.00
	8,000.00 8,100.00	12.00 12.00	232.53 232.53	7,933.99 8,031.80	-407.54 -420.19	-531.73 -548.23	-379.24 -391.01	0.00 0.00	0.00 0.00	0.00 0.00
	8,200.00	12.00	232.53	8,129.62	-432.84	-564.73	-402.78	0.00	0.00	0.00
	8,300.00	12.00	232.53	8,227.43	-445.49	-581.24	-414.55	0.00	0.00	0.00
	8,400.00	12.00	232.53	8,325.25	-458.14	-597.74	-426.32	0.00	0.00	0.00
	8,500.00	12.00	232.53	8,423.06	-470.78	-614.24	-438.09	0.00	0.00	0.00
	8,580.40	12.00 <b>&amp; Turn 10°/100</b>	232.53	8,501.71	-480.95	-627.51	-447.55	0.00	0.00	0.00
	8,600.00	10.94	240.85	8,520.92	-483.10	-630.75	-449.52	10.00	-5.39	42.43
	8,700.00	10.71	296.13	8,619.39	-483.63	-647.42	-449.19	10.00	-0.24	55.29
	8,800.00	17.54	327.33	8,716.44	-466.82	-663.94	-431.53	10.00	6.83	31.19
	8,900.00	26.43	339.81	8,809.12	-433.16	-679.79	-397.09	10.00	8.89	12.48
	9,000.00 9,100.00	35.88 45.54	346.19 350.16	8,894.63 8,970.35	-383.69 -319.90	-694.50 -707.63	-346.92 -282.54	10.00 10.00	9.45 9.66	6.38 3.97
	9,200.00	55.31	352.99	9,033.99	-243.74	-718.77	-205.90	10.00	9.76	2.83
	9,300.00	65.12	355.22	9,033.99	-243.74 -157.52	-716.77	-119.33	10.00	9.70	2.23
	9,400.00	74.96	357.12	9,117.71	-63.86	-733.81	-25.47	10.00	9.84	1.90
	9,500.00	84.81	358.85	9,135.25	34.41	-737.25	72.84	10.00	9.85	1.73
	9,555.32 Landing Poi	90.27	359.77	9,137.63	89.65	-737.91	128.04	10.00	9.86	1.67
	-		250.77	0.127.40	124.00	720.00	170.67	0.00	0.00	0.00
	9,600.00 9,700.00	90.27 90.27	359.77 359.77	9,137.42 9,136.95	134.33 234.33	-738.09 -738.49	172.67 272.55	0.00 0.00	0.00 0.00	0.00 0.00
	9,800.00	90.27	359.77	9,136.49	334.32	-738.89	372.43	0.00	0.00	0.00
	9,900.00	90.27	359.77	9,136.02	434.32	-739.29	472.31	0.00	0.00	0.00
	10,000.00	90.27	359.77	9,135.55	534.32	-739.69	572.20	0.00	0.00	0.00

### Planning Report

Database: Company:

Site:

HOPSPP

**ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

Design:	Permitting Pla	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)			
10,100.00	90.27	359.77	9,135.09	634.32	-740.09	672.08	0.00	0.00	0.00			
10,200.00	90.27	359.77	9,134.62	734.32	-740.48	771.96	0.00	0.00	0.00			
10,300.00	90.27	359.77	9,134.16	834.31	-740.88	871.84	0.00	0.00	0.00			
10,400.00	90.27	359.77	9,133.69	934.31	-741.28	971.73	0.00	0.00	0.00			
10,500.00	90.27	359.77	9,133.23	1,034.31	-741.68	1,071.61	0.00	0.00	0.00			
10,600.00	90.27	359.77	9,132.76	1,134.31	-742.08	1,171.49	0.00	0.00	0.00			
10,700.00	90.27	359.77	9,132.30	1,234.31	-742.48	1,271.38	0.00	0.00	0.00			
10,800.00	90.27	359.77	9,131.83	1,334.31	-742.88	1,371.26	0.00	0.00	0.00			
10,900.00	90.27	359.77	9,131.36	1,434.30	-743.28	1,471.14	0.00	0.00	0.00			
11,000.00	90.27	359.77	9,130.90	1,534.30	-743.68	1,571.02	0.00	0.00	0.00			
11,100.00 11,200.00 11,300.00 11,400.00 11,500.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	9,130.43 9,129.97 9,129.50 9,129.04 9,128.57 9,128.10	1,634.30 1,734.30 1,834.30 1,934.29 2,034.29 2,134.29	-744.07 -744.47 -744.87 -745.27 -745.67	1,670.91 1,770.79 1,870.67 1,970.55 2,070.44	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00			
11,600.00 11,700.00 11,800.00 11,900.00 12,000.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	9,128.10 9,127.64 9,127.17 9,126.71 9,126.24 9,125.78	2,134.29 2,234.29 2,334.29 2,434.28 2,534.28 2,634.28	-746.07 -746.47 -746.87 -747.27 -747.67	2,170.32 2,270.20 2,370.08 2,469.97 2,569.85 2,669.73	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00			
12,200.00 12,300.00 12,400.00 12,500.00 12,600.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	9,125.31 9,124.85 9,124.38 9,123.91 9,123.45	2,734.28 2,834.28 2,934.28 3,034.27 3,134.27	-748.46 -748.86 -749.26 -749.66	2,769.62 2,869.50 2,969.38 3,069.26 3,169.15	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00			
12,700.00 12,800.00 12,892.73 PPP-1 Cross	90.27 90.27 90.27	359.77 359.77 359.77	9,122.98 9,122.52 9,122.09	3,234.27 3,334.27 3,427.00	-750.46 -750.86 -751.23	3,269.03 3,368.91 3,461.53	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00			
12,900.00	90.27	359.77	9,122.05	3,434.27	-751.26	3,468.79	0.00	0.00	0.00			
13,000.00	90.27	359.77	9,121.59	3,534.26	-751.65	3,568.68	0.00	0.00	0.00			
13,100.00	90.27	359.77	9,121.12	3,634.26	-752.05	3,668.56	0.00	0.00	0.00			
13,200.00	90.27	359.77	9,120.66	3,734.26	-752.45	3,768.44	0.00	0.00	0.00			
13,300.00	90.27	359.77	9,120.19	3,834.26	-752.85	3,868.32	0.00	0.00	0.00			
13,400.00	90.27	359.77	9,119.72	3,934.26	-753.25	3,968.21	0.00	0.00	0.00			
13,500.00	90.27	359.77	9,119.26	4,034.25	-753.65	4,068.09	0.00	0.00	0.00			
13,600.00	90.27	359.77	9,118.79	4,134.25	-754.05	4,167.97	0.00	0.00	0.00			
13,700.00	90.27	359.77	9,118.33	4,234.25	-754.45	4,267.86	0.00	0.00	0.00			
13,800.00	90.27	359.77	9,117.86	4,334.25	-754.85	4,367.74	0.00	0.00	0.00			
13,900.00	90.27	359.77	9,117.40	4,434.25	-755.25	4,467.62	0.00	0.00	0.00			
14,000.00	90.27	359.77	9,116.93	4,534.25	-755.64	4,567.50	0.00	0.00	0.00			
14,100.00	90.27	359.77	9,116.46	4,634.24	-756.04	4,667.39	0.00	0.00	0.00			
14,200.00	90.27	359.77	9,116.00	4,734.24	-756.44	4,767.27	0.00	0.00	0.00			
14,300.00	90.27	359.77	9,115.53	4,834.24	-756.84	4,867.15	0.00	0.00	0.00			
14,400.00	90.27	359.77	9,115.07	4,934.24	-757.24	4,967.03	0.00	0.00	0.00			
14,500.00	90.27	359.77	9,114.60	5,034.24	-757.64	5,066.92	0.00	0.00	0.00			
14,600.00	90.27	359.77	9,114.14	5,134.23	-758.04	5,166.80	0.00	0.00	0.00			
14,700.00	90.27	359.77	9,113.67	5,234.23	-758.44	5,266.68	0.00	0.00	0.00			
14,800.00	90.27	359.77	9,113.21	5,334.23	-758.84	5,366.56	0.00	0.00	0.00			
14,900.00	90.27	359.77	9,112.74	5,434.23	-759.23	5,466.45	0.00	0.00	0.00			
15,000.00	90.27	359.77	9,112.27	5,534.23	-759.63	5,566.33	0.00	0.00	0.00			
15,100.00	90.27	359.77	9,111.81	5,634.22	-760.03	5,666.21	0.00	0.00	0.00			
15,200.00	90.27	359.77	9,111.34	5,734.22	-760.43	5,766.10	0.00	0.00	0.00			
15,300.00	90.27	359.77	9,110.88	5,834.22	-760.83	5,865.98	0.00	0.00	0.00			

### Planning Report

Database: Company: Project:

Site:

HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,400.00	90.27	359.77	9,110.41	5,934.22	-761.23	5,965.86	0.00	0.00	0.00
15,500.00	90.27	359.77	9,109.95	6,034.22	-761.63	6,065.74	0.00	0.00	0.00
15,600.00	90.27	359.77	9,109.48	6,134.22	-762.03	6,165.63	0.00	0.00	0.00
15,700.00	90.27	359.77	9,109.01	6,234.21	-762.43	6,265.51	0.00	0.00	0.00
15,800.00	90.27	359.77	9,108.55	6,334.21	-762.83	6,365.39	0.00	0.00	0.00
15,900.00	90.27	359.77	9,108.08	6,434.21	-763.22	6,465.27	0.00	0.00	0.00
16,000.00	90.27	359.77	9,107.62	6,534.21	-763.62	6,565.16	0.00	0.00	0.00
16,100.00	90.27	359.77	9,107.15	6,634.21	-764.02	6,665.04	0.00	0.00	0.00
16,200.00	90.27	359.77	9,106.69	6,734.20	-764.42	6,764.92	0.00	0.00	0.00
16,300.00	90.27	359.77	9,106.22	6,834.20	-764.82	6,864.80	0.00	0.00	0.00
16,400.00	90.27	359.77	9,105.76	6,934.20	-765.22	6,964.69	0.00	0.00	0.00
16,500.00	90.27	359.77	9,105.29	7,034.20	-765.62	7,064.57	0.00	0.00	0.00
16,600.00	90.27	359.77	9,104.82	7,134.20	-766.02	7,164.45	0.00	0.00	0.00
16,700.00	90.27	359.77	9,104.36	7,234.19	-766.42	7,264.33	0.00	0.00	0.00
16,800.00	90.27	359.77	9,103.89	7,334.19	-766.81	7,364.22	0.00	0.00	0.00
16,900.00	90.27	359.77	9,103.43	7,434.19	-767.21	7,464.10	0.00	0.00	0.00
17,000.00	90.27	359.77	9,102.96	7,534.19	-767.61	7,563.98	0.00	0.00	0.00
17,100.00	90.27	359.77	9,102.50	7,634.19	-768.01	7,663.87	0.00	0.00	0.00
17,200.00	90.27	359.77	9,102.03	7,734.19	-768.41	7,763.75	0.00	0.00	0.00
17,300.00	90.27	359.77	9,101.57	7,834.18	-768.81	7,863.63	0.00	0.00	0.00
17,400.00	90.27	359.77	9,101.10	7,934.18	-769.21	7,963.51	0.00	0.00	0.00
17,500.00	90.27	359.77	9,100.63	8,034.18	-769.61	8,063.40	0.00	0.00	0.00
17,600.00	90.27	359.77	9,100.17	8,134.18	-770.01	8,163.28	0.00	0.00	0.00
17,700.00	90.27	359.77	9,099.70	8,234.18	-770.41	8,263.16	0.00	0.00	0.00
17,800.00	90.27	359.77	9,099.24	8,334.17	-770.80	8,363.04	0.00	0.00	0.00
17,900.00	90.27	359.77	9,098.77	8,434.17	-771.20	8,462.93	0.00	0.00	0.00
18,000.00	90.27	359.77	9,098.31	8,534.17	-771.60	8,562.81	0.00	0.00	0.00
18,100.00	90.27	359.77	9,097.84	8,634.17	-772.00	8,662.69	0.00	0.00	0.00
18,200.00	90.27	359.77	9,097.37	8,734.17	-772.40	8,762.57	0.00	0.00	0.00
18,300.00	90.27	359.77	9,096.91	8,834.16	-772.80	8,862.46	0.00	0.00	0.00
18,400.00	90.27	359.77	9,096.44	8,934.16	-773.20	8,962.34	0.00	0.00	0.00
18,500.00 18,600.00 18,700.00 18,800.00 18,900.00	90.27 90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77 359.77	9,095.98 9,095.51 9,095.05 9,094.58 9,094.12	9,034.16 9,134.16 9,234.16 9,334.16 9,434.15	-773.60 -774.00 -774.39 -774.79	9,062.22 9,162.11 9,261.99 9,361.87 9,461.75	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,000.00	90.27	359.77	9,093.65	9,534.15	-775.59	9,561.64	0.00	0.00	0.00
19,100.00	90.27	359.77	9,093.18	9,634.15	-775.99	9,661.52	0.00	0.00	0.00
19,200.00	90.27	359.77	9,092.72	9,734.15	-776.39	9,761.40	0.00	0.00	0.00
19,300.00	90.27	359.77	9,092.25	9,834.15	-776.79	9,861.28	0.00	0.00	0.00
19,400.00	90.27	359.77	9,091.79	9,934.14	-777.19	9,961.17	0.00	0.00	0.00
19,476.86	90.27	359.77	9,091.43	10,011.00	-777.49	10,037.94	0.00	0.00	0.00
PPP-2 Cros 19,500.00 19,600.00 19,700.00 19,800.00	90.27 90.27 90.27 90.27 90.27	359.77 359.77 359.77 359.77	9,091.32 9,090.86 9,090.39 9,089.92	10,034.14 10,134.14 10,234.14 10,334.14	-777.59 -777.99 -778.38 -778.78	10,061.05 10,160.93 10,260.81 10,360.70	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,900.00	90.27	359.77	9,089.46	10,434.13	-779.18	10,460.58	0.00	0.00	0.00
20,000.00	90.27	359.77	9,088.99	10,534.13	-779.58	10,560.46	0.00	0.00	0.00
20,100.00	90.27	359.77	9,088.53	10,634.13	-779.98	10,660.35	0.00	0.00	0.00
20,200.00	90.27	359.77	9,088.06	10,734.13	-780.38	10,760.23	0.00	0.00	0.00
20,300.00	90.27	359.77	9,087.60	10,834.13	-780.78	10,860.11	0.00	0.00	0.00
20,400.00	90.27	359.77	9,087.13	10,934.13	-781.18	10,959.99	0.00	0.00	0.00
20,500.00	90.27	359.77	9,086.67	11,034.12	-781.58	11,059.88	0.00	0.00	0.00
20,600.00	90.27	359.77	9,086.20	11,134.12	-781.98	11,159.76	0.00	0.00	0.00

### Planning Report

Database: Company: Project: HOPSPP

**ENGINEERING DESIGNS** 

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

ned 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)
20,700.00	90.27	359.77	9,085.73	11,234.12	-782.37	11,259.64	0.00	0.00	0.00
20,800.00	90.27	359.77	9,085.27	11,334.12	-782.77	11,359.52	0.00	0.00	0.00
20,900.00	90.27	359.77	9,084.80	11,434.12	-783.17	11,459.41	0.00	0.00	0.00
21,000.00	90.27	359.77	9,084.34	11,534.11	-783.57	11,559.29	0.00	0.00	0.00
21,100.00	90.27	359.77	9,083.87	11,634.11	-783.97	11,659.17	0.00	0.00	0.00
21,200.00	90.27	359.77	9,083.41	11,734.11	-784.37	11,759.05	0.00	0.00	0.00
21,300.00	90.27	359.77	9,082.94	11,834.11	-784.77	11,858.94	0.00	0.00	0.00
21,400.00	90.27	359.77	9,082.48	11,934.11	-785.17	11,958.82	0.00	0.00	0.00
21,500.00	90.27	359.77	9,082.01	12,034.10	-785.57	12,058.70	0.00	0.00	0.00
21,600.00	90.27	359.77	9,081.54	12,134.10	-785.96	12,158.59	0.00	0.00	0.00
21,700.00	90.27	359.77	9,081.08	12,234.10	-786.36	12,258.47	0.00	0.00	0.00
21,800.00	90.27	359.77	9,080.61	12,334.10	-786.76	12,358.35	0.00	0.00	0.00
21,900.00	90.27	359.77	9,080.15	12,434.10	-787.16	12,458.23	0.00	0.00	0.00
22,000.00	90.27	359.77	9,079.68	12,534.10	-787.56	12,558.12	0.00	0.00	0.00
22,100.00	90.27	359.77	9,079.22	12,634.09	-787.96	12,658.00	0.00	0.00	0.00
22,200.00	90.27	359.77	9,078.75	12,734.09	-788.36	12,757.88	0.00	0.00	0.00
22,300.00	90.27	359.77	9,078.28	12,834.09	-788.76	12,857.76	0.00	0.00	0.00
22,400.00	90.27	359.77	9,077.82	12,934.09	-789.16	12,957.65	0.00	0.00	0.00
22,500.00	90.27	359.77	9,077.35	13,034.09	-789.56	13,057.53	0.00	0.00	0.00
22,600.00	90.27	359.77	9,076.89	13,134.08	-789.95	13,157.41	0.00	0.00	0.00
22,700.00	90.27	359.77	9,076.42	13,234.08	-790.35	13,257.29	0.00	0.00	0.00
22,800.00	90.27	359.77	9,075.96	13,334.08	-790.75	13,357.18	0.00	0.00	0.00
22,900.00	90.27	359.77	9,075.49	13,434.08	-791.15	13,457.06	0.00	0.00	0.00
23,000.00	90.27	359.77	9,075.03	13,534.08	-791.55	13,556.94	0.00	0.00	0.00
23,100.00	90.27	359.77	9,074.56	13,634.07	-791.95	13,656.83	0.00	0.00	0.00
23,200.00	90.27	359.77	9,074.09	13,734.07	-792.35	13,756.71	0.00	0.00	0.00
23,300.00	90.27	359.77	9,073.63	13,834.07	-792.75	13,856.59	0.00	0.00	0.00
23,400.00	90.27	359.77	9,073.16	13,934.07	-793.15	13,956.47	0.00	0.00	0.00
23,500.00	90.27	359.77	9,072.70	14,034.07	-793.54	14,056.36	0.00	0.00	0.00
23,600.00	90.27	359.77	9,072.23	14,134.07	-793.94	14,156.24	0.00	0.00	0.00
23,700.00	90.27	359.77	9,071.77	14,234.06	-794.34	14,256.12	0.00	0.00	0.00
23,800.00	90.27	359.77	9,071.30	14,334.06	-794.74	14,356.00	0.00	0.00	0.00
23,900.00	90.27	359.77	9,070.83	14,434.06	-795.14	14,455.89	0.00	0.00	0.00
24,000.00	90.27	359.77	9,070.37	14,534.06	-795.54	14,555.77	0.00	0.00	0.00
24,100.00	90.27	359.77	9,069.90	14,634.06	-795.94	14,655.65	0.00	0.00	0.00
24,200.00	90.27	359.77	9,069.44	14,734.05	-796.34	14,755.53	0.00	0.00	0.00
24,300.00	90.27	359.77	9,068.97	14,834.05	-796.74	14,855.42	0.00	0.00	0.00
24,400.00	90.27	359.77	9,068.51	14,934.05	-797.14	14,955.30	0.00	0.00	0.00
24,500.00	90.27	359.77	9,068.04	15,034.05	-797.53	15,055.18	0.00	0.00	0.00
24,600.00	90.27	359.77	9,067.58	15,134.05	-797.93	15,155.07	0.00	0.00	0.00
24,700.00	90.27	359.77	9,067.11	15,234.04	-798.33	15,254.95	0.00	0.00	0.00
24,745.32	90.27	359.77	9,066.90	15,279.36	-798.51	15,300.21	0.00	0.00	0.00

### Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Nimitz MDP1 13\_1

Well: Nimitz MDP1 13\_1 Fed Com 11H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Nimitz MDP1 13\_1 Fed Com 11H

RKB=25' @ 3487.00ft RKB=25' @ 3487.00ft

Grid

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 (Nimitz MDP1 - plan misses targe - Point	0.00 t center by 88		0.00 Ooft MD (0.0	-485.15 0 TVD, 0.00 i	-735.73 N, 0.00 E)	440,762.77	693,770.14	32.210773	-103.840468
PBHL (Nimitz MDP1 - plan hits target ce - Point	0.00 enter	0.00	9,066.90	15,279.36	-798.51	456,526.24	693,707.36	32.254105	-103.840437
FTP (Nimitz MDP1 - plan misses targe - Point	0.00 t center by 20		9,140.07 23.44ft MD	-435.15 (8986.42 TVI	-735.82 D, -303.09 N,	440,812.77 -710.43 E)	693,770.05	32.210911	-103.840468

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	491.00	491.00	RUSTLER			
	852.00	852.00	SALADO			
	2,687.00	2,687.00	CASTILE			
	4,122.00	4,122.00	DELAWARE			
	4,153.00	4,153.00	BELL CANYON			
	5,071.59	5,068.00	CHERRY CANYON			
	6,319.28	6,290.00	BRUSHY CANYON			
	8,062.37	7,995.00	BONE SPRING			
	9,062.16	8,943.00	BONE SPRING 1ST			

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	rdinates +E/-W (ft)	Comment
4,180.0		0.00 -76.17	0.00 -99.38	Build 1°/100'
5,380.03 8,580.40		-480.95	-627.51	Hold 12° Tangent KOP, Build & Turn 10°/100'
9,555.32	-,	89.65	-737.91	Landing Point
12,892.73	-,	3,427.00	-751.23	PPP-1 Cross
19,476.80		10,011.00	-777.49	PPP-2 Cross
24,745.3	2 9,066.90	15,279.36	-798.51	TD at 24745.32' MD

### PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INCORPORATED
WELL NAME & NO.: NIMITZ MDP1 13 1 FED COM 11H
LOCATION: Section 13, T.24 S., R.30 E.
COUNTY: Eddy County, New Mexico

COA

H2S	• Yes	O No	
Potash	O None	Secretary	© R-111-P
Cave/Karst Potential	• Low	© Medium	C High
Cave/Karst Potential	Critical Critical		
Variance	© None	• Flex Hose	Other Other
Wellhead	C Conventional	<ul><li>Multibowl</li></ul>	© Both
Wellhead Variance	O Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	☐ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing	☐ Contingency	☐ EchoMeter	✓ Primary Cement
	Cement Squeeze		Squeeze
Special Requirements	☐ Water Disposal	<b>☑</b> COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	▼ Break Testing	✓ Offline	☐ Casing
Variance	_	Cementing	Clearance

### A. HYDROGEN SULFIDE

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

### **B. CASING**

NOTE: WELL APPROVED FOR DESIGNS A1 AND A2. REVIEW CEMENT VOLUMES TO ACHIEVE TIE BACKS LISTED BELOW.

### **A1:**

1. The **10-3/4** inch surface casing shall be set at approximately **792** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7-5/8** inch intermediate casing shall be set at approximately **8484** feet. **KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL.** The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

### **Option 1 (Single Stage):**

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

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
  - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- ❖ In <u>Secretary Potash Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

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

3. The **5-1/2** inch production casing shall be set at approximately **25,167** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

### **Option 1 (Single Stage):**

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

### <u>A2:</u>

- 1. The **13-3/8** inch surface casing shall be set at approximately **792** feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 7-5/8 inch intermediate casing shall be set at approximately 8484 feet. KEEP CASING 1/2 FULL FOR COLLAPSE SF. PRESSURE TEST NEEDS EXTERNAL PRESSURE REVIEW AS WELL. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

### **Option 1 (Single Stage):**

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

### **Option 2 (Bradenhead):**

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

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- d. Second stage:
  - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified
- 3. The **5-1/2** inch production casing shall be set at approximately **25,167** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

### **Option 1 (Single Stage):**

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

### C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### D. SPECIAL REQUIREMENT (S)

### **Communitization Agreement**

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

### (Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system) BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted 4 hours prior to BOPE tests(see General Requirements for contact information.)
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

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

### **Offline Cementing**

Offline cementing OK for surface and intermediate intervals. Notify the BLM prior to the commencement of any offline cementing procedure.

### GENERAL REQUIREMENTS

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

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

### **Contact Eddy County Petroleum Engineering Inspection Staff:**

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

### **Contact Lea County Petroleum Engineering Inspection Staff:**

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i.Notify the BLM when moving in and removing the Spudder Rig.
    - ii.Notify the BLM when moving in the 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** 7/16/2025

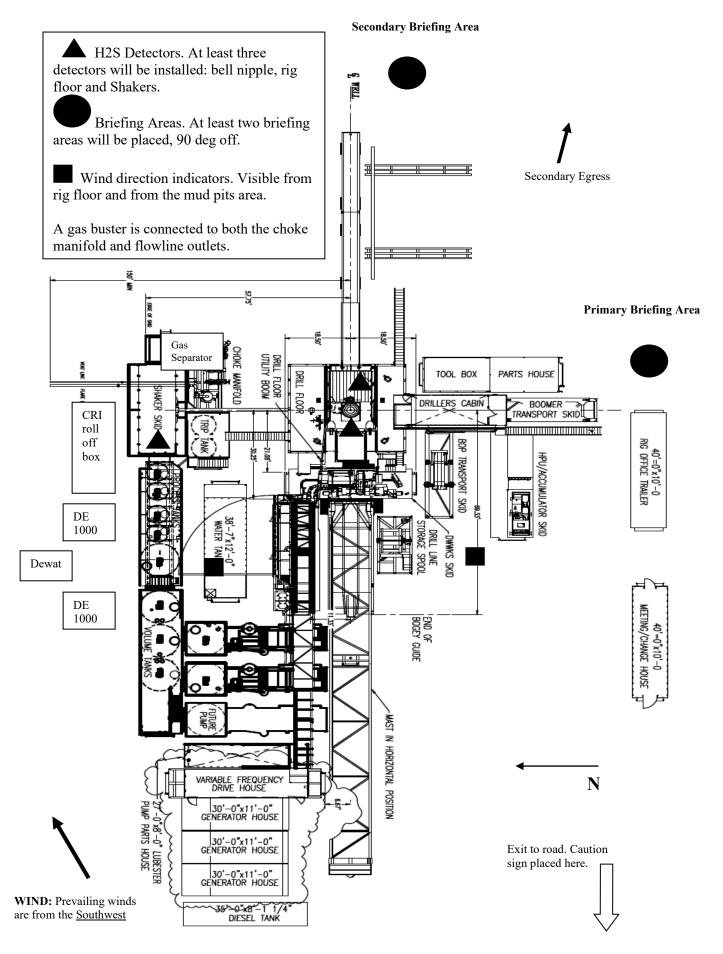


### Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

### 1. Escape

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





# Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

### **Scope**

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

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

### **Objective**

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

### **Discussion**

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

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that

must be adhered to prior to drilling.

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

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

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

potential evacuation and any additional support

needed.

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

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

### **Hydrogen Sulfide Training**

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

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

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

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

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

### Service company and visiting personnel

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

### **Emergency Equipment Requirements**

### 1. Well control equipment

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

### Special control equipment:

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

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

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

### 3. Hydrogen sulfide sensors and alarms

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

### *Wind sock – wind streamers:*

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

### Condition flags

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

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

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

### 5. <u>Mud Program</u>

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

### Mud inspection devices:

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

### 6. <u>Metallurgy</u>

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

### 7. Well Testing

No drill stem test will be performed on this well.

### 8. Evacuation plan

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

### 9. <u>Designated area</u>

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

### **Emergency procedures**

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

### B. If uncontrollable conditions occur:

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

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

### C. Responsibility:

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

All personnel:

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

Drill site manager:

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

Tool pusher:

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

Driller:

1. Don escape unit, shut down pumps, continue

rotating DP.

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

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

Mud engineer:

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

Safety personnel:

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

### Taking a kick

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

### **Open-hole logging**

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

### Running casing or plugging

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

### **Ignition procedures**

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

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

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

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

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

### **Status check list**

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

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

Checked by:	Date:
encerca oy.	Bate.

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

### Perform each tour:

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

### Perform each week:

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

### **General evacuation plan**

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

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

### **Emergency actions**

### Well blowout – if emergency

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

### Person down location/facility

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

### Toxic effects of hydrogen sulfide

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

Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity	Threshold limit	Hazardous limit	Lethal concentration (3)
TT 1	TT	(sc=1)	(1)	(2)	200
Hydrogen Cyanide	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Carbon Monoxide	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Carbon Dioxide	Co2	1.52	5000 ppm	5%	10%
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

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

### Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

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

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

<sup>\*</sup>at 15.00 psia and 60'f.

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

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

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

### Rescue First aid for H2S poisoning

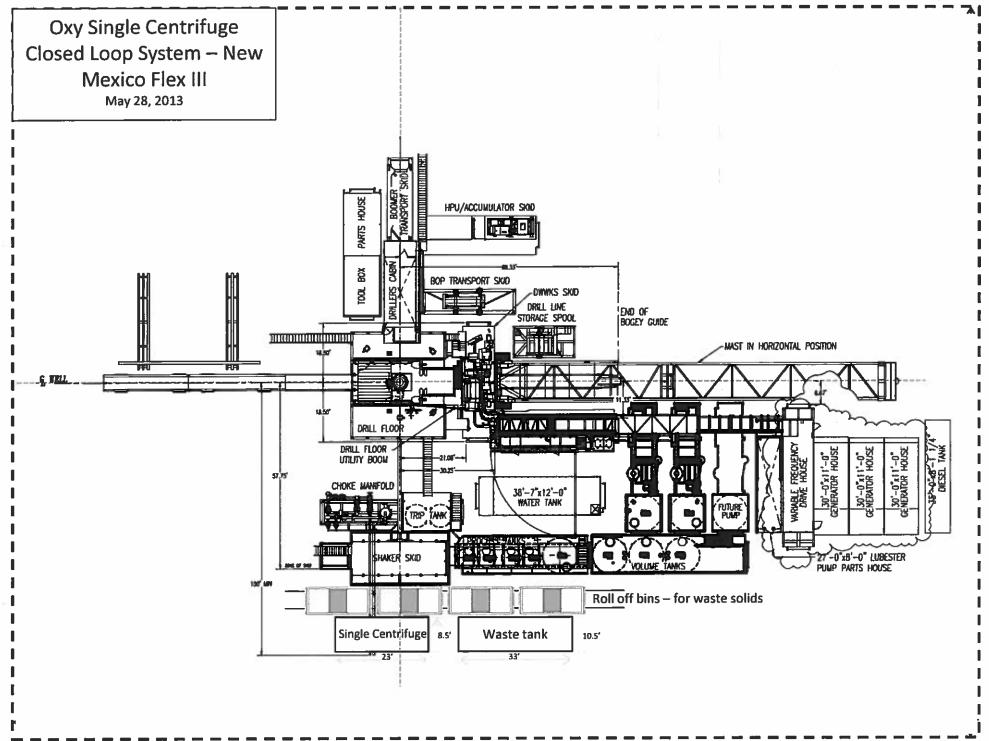
### Do not panic!

Remain calm – think!

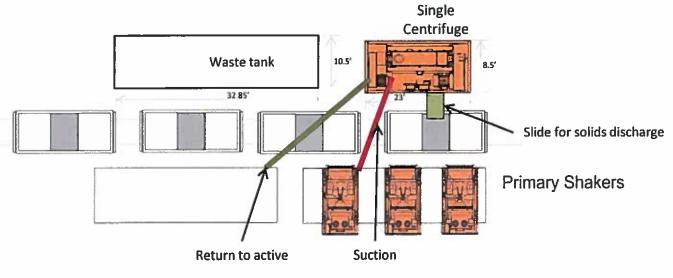
- 1. Don SCBA breathing equipment.
- 2. Remove victim(s) utilizing buddy system to fresh air as quickly as possible. (go up-wind from source or at right angle to the wind. Not down wind.)
- 3. Briefly apply chest pressure arm lift method of artificial respiration to clean the victim's lungs and to avoid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

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

Revised CM 6/27/2012











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



### SITE PLAN

NIMITZ MDP1 13\_1 FED COM (SNDDNS\_24S30E\_13\_1) SECTIONS 13 AND 24 TWP. 24-S RGE. 30-E

SURVEY: N.M.P.M.
COUNTY: EDDY

OPERATOR: OXY USA, INC.

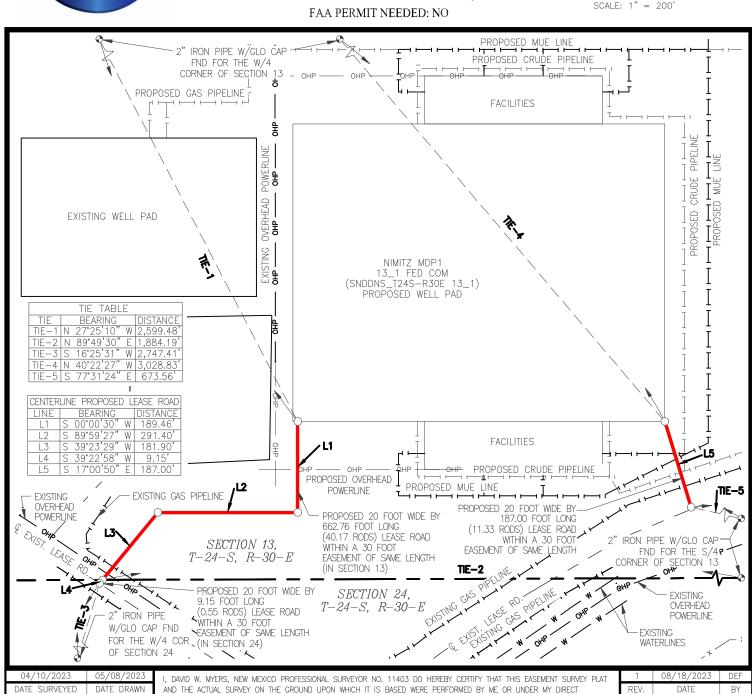
U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.



200

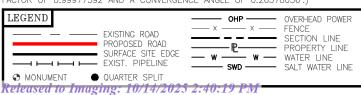
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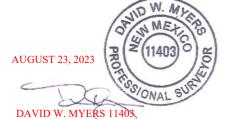
100



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

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 0.99977392 AND A CONVERGENCE ANGLE OF 0.26578056\*.)





PREPARED BY:
DELTA FIELD SERVICES, LLC
D/B/A R-SQUARED GLOBAL, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4073\_004
SHEET 1 OF 3



### SITE PLAN

NIMITZ MDP1 13\_1 FED COM (SNDDNS\_24S30E\_13\_1) SECTION 13 TWP. 24-S RGE. 30-E

SURVEY: N.M.P.M.

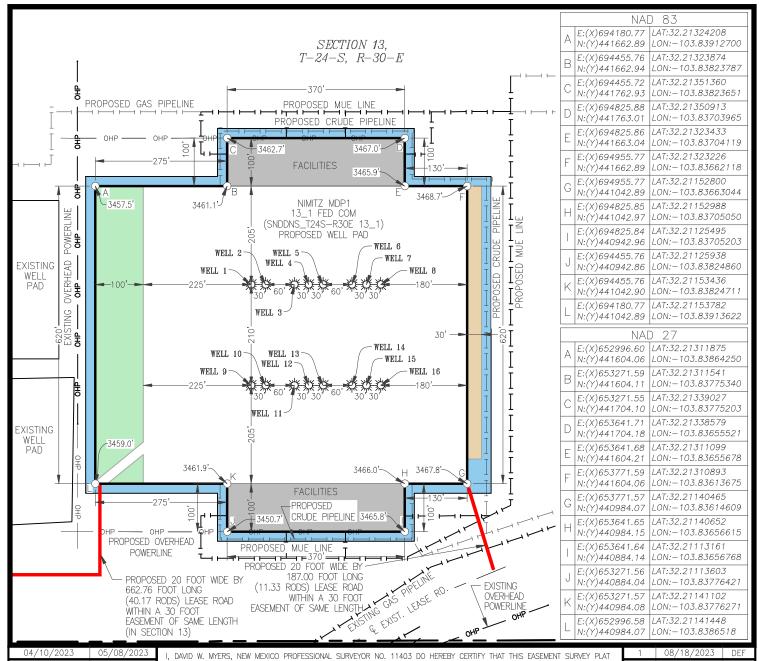
COUNTY: EDDY 20' DISTURBANCE AREA OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M. FAA PERMIT NEEDED: NO

TANK BATTERY RECLAMATION 30' TOP SOIL



100' 0' 100' 20 SCALE: 1" = 200'



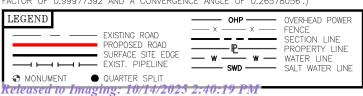
AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I FURTHER CERTIFY THAT THIS SURVEY IS NOT A LAND DIMISION 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.

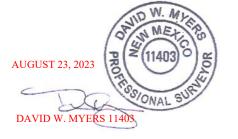
BASIS OF BEARING

DATE SURVEYED

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 0.99977392 AND A CONVERGENCE ANGLE OF 0.26578056.)

DATE DRAWN







REV.

PREPARED BY:
DELTA FIELD SERVICES, LLC
D/B/A R-SQUARED GLOBAL, LLC
510 TRENTON ST.
WEST MONROE, LA 71291
318-323-6900 OFFICE
JOB No. R4073\_004
SHEET 2 OF 3



### SITE PLAN

NIMITZ MDP1 13 1 FED COM (SNDDNS 24S30E 13 1) SECTION 13 TWP. 24-S RGE. 30-E

> SURVEY: N.M.P.M. COUNTY: EDDY

OPERATOR: OXY USA, INC.

U.S.G.S. TOPOGRAPHIC MAP: BIG SINKS, N.M.

FAA PERMIT NEEDED: NO



### WELL 1 NMITZ MDP1 13\_1 FED COM 310H OXY USA, INC. 743' FSL 1511' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694505.82' / Y:441457.90' LAT:32.21267448N / LON:103.83807906W NAD 27, SPCS NM EAST

X:653321.64' / Y:441399.07' LAT:32.21255115N / LON:103.83759463W ELEVATION = 3460'

### WELL 2 NIMITZ MDP1 13\_1 FED COM 314H OXY USA, INC.

743' FSL 1541' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694535.80' / Y:441457.96'
LAT:32.21267428N / LON:103.83798211W NAD 27, SPCS NM EAST

X:653351.62' / Y:441399.14' LAT:32.21255095N / LON:103.83749768W ELEVATION = 3460'

### WELL 3 NIMITZ MDP1 13\_1 FED COM 41H OXY USA, INC. 743' FSL 1601' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694595.79' / Y:441457.91' LAT:32.21267336N / LON:103.83778816W NAD 27, SPCS NM EAST

X:653411.61' / Y:441399.08' LAT:32.21255003N / LON:103.83730374W ELEVATION = 3462'

# WELL 4 NIMITZ MDP1 13\_1 FED COM 47H OXY USA, INC.

743 FSL 1631' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694625.70' / Y:441457.91' LAT:32.21267300N / LON:103.83769144W X:653441.52' / Y:441399.08'
LAT:32.21254967N / LON:103.83720702W

ELEVATION = 3462'

### WELL 5 NIMITZ MDP1 13\_1 FED COM 42H OXY USA, INC.

742' FSL 1661' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694655.80' / Y:441457.96' LAT:32.21267274N / LON:103.83759412W NAD 27, SPCS NM EAST X:653471.62' / Y:441399.13' LAT:32.21254940N / LON:103.83710970W ELEVATION = 3462'

### WELL 6 NIMITZ MDP1 13\_1 FED COM 31H OXY USA, INC.

742' FSL 1721' FWL, SECTION 13

NAD 83, SPCS NM EAST

X:694715.81' / Y:441457.91'

LAT:32.21267185N / LON:103.83740010W NAD 27, SPCS NM EAST X:653531.63' / Y:441399.08' LAT:32.21254852N / LON:103.83691569W

ELEVATION = 3463'

### WELL 7 NIMITZ MDP1 13\_1 FED COM 32H OXY USA, INC.

742' FSL 1751' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694745.82' / Y:441457.97' LAT:32.21267164N / LON:103.83730308W NAD 27, SPCS NM EAST

X:653561.63' / Y:441399.15' LAT:32.21254831N / LON:103.83681867W ELEVATION = 3464'

### WELL 8 NIMITZ MDP1 13\_1 FED COM 33H OXY USA, INC.

742' FSL 1781' FWL, SECTION 13

NAD 83, SPCS NM EAST

X:694775.76' / Y:441457.95'

LAT:32.21267121N / LON:103.83720626W

NAD 27, SPCS NM EAST X:653591.58' / Y:441399.13' LAT:32.21254788N / LON:103.83672185W ELEVATION = 3464'

# WELL 9 NIMITZ MDP1 13\_1 FED COM 11H OXY USA, INC. 533' FSL 1511' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694505.82' / Y:441247.89' LAT:32.21209721N / LON:103.83808219W NAD 27, SPCS NM EAST X:653321.63' / Y:441189.07' LAT:32.21197388N / LON:103.83759779W

ELEVATION = 3462

### WELL 10 NIMITZ MDP1 13\_1 FED COM 12H OXY USA, INC.

533' FSL 1541' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694535.77' / Y:441247.89' LAT:32.21209683N / LON:103.83798536W NAD 27, SPCS NM EAST

X:653351.58' / Y:441189.07' LAT:32.21197350N / LON:103.83750095W ELEVATION = 3463'

# WELL 11 NIMITZ MDP1 13\_1 FED COM 21H OXY USA, INC.

533' FSL 1601' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694595.77' / Y:441247.89' LAT:32.21209607N / LON:103.83779136W NAD 27, SPCS NM EAST

X:653411.58' / Y:441189.07' LAT:32.21197274N / LON:103.83730696W ELEVATION = 3463'

# WELL 12 NIMITZ MDP1 13\_1 FED COM 22H OXY USA, INC.

533' FSL 1631' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694625.77' / Y:441247.89' LAT:32.21209569N / LON:103.83769436W NAD 27, SPCS NM EAST X:653441.58' / Y:441189.07' LAT:32.21197236N / LON:103.83720997W ELEVATION = 3464'

### WELL 13 NIMITZ MDP1 13\_1 FED COM 23H OXY USA, INC.

532' FSL 1661' FWL, SECTION 13 NAD 83, SPCS NM EAST X:694655.77' / Y:441247.89' LAT:32.21209531N / LON:103.83759736W NAD 27, SPCS NM EAST X:653471.58' / Y:441189.07' LAT:32.21197198N / LON:103.83711297W ELEVATION = 3464'

### WELL 14 NIMITZ MDP1 13\_1 FED COM 43H OXY USA, INC. 532' FSL 1721' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694715.77' / Y:441247.89' LAT:32.21209455N / LON:103.83740337W NAD 27, SPCS NM EAST X:653531.58' / Y:441189.07' LAT:32.21197121N / LON:103.83691898W FLEVATION = .3464

### WELL 15 NIMITZ MDP1 13\_1 FED COM 48H OXY USA, INC. 532' FSL 1751' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694745.77' / Y:441247.89' LAT:32.21209417N / LON:103.83730637W NAD 27, SPCS NM EAST

X:653561.58' / Y:441189.07' LAT:32.21197083N / LON:103.83682198W ELEVATION = 3465'

### WELL 16 NIMITZ MDP1 13\_1 FED COM 44H OXY USA, INC. 532' FSL 1781' FWL, SECTION 13

NAD 83, SPCS NM EAST X:694775.77' / Y:441247.89' LAT:32.21209379N / LON:103.83720937W NAD 27, SPCS NM EAST

X:653591.58' / Y:441189.07' LAT:32.21197045N / LON:103.83672499W ELEVATION = 3465

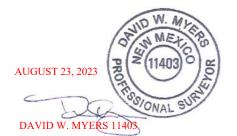
REV.

05/08/2023 DATE SURVEYED DATE DRAWN

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

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



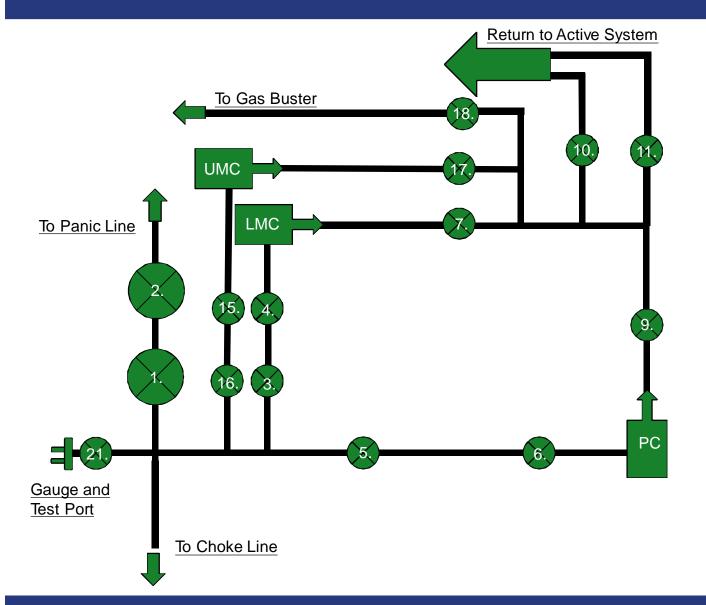




08/18/2023 DEF

PREPARED BY: DELTA FIELD SERVICES, LLC D/B/A R-SQUARED GLOBAL, LLC 510 TRENTON ST. WEST MONROE, LA 71291 318-323-6900 OFFICE JOB No. R4073\_004 SHEET 3 OF 3

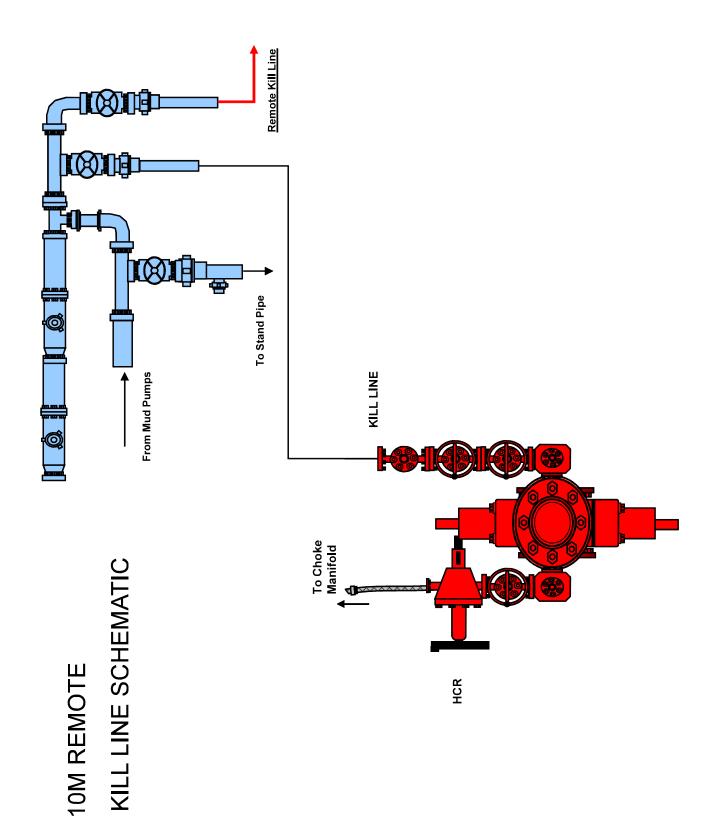
# 10M Choke Panel

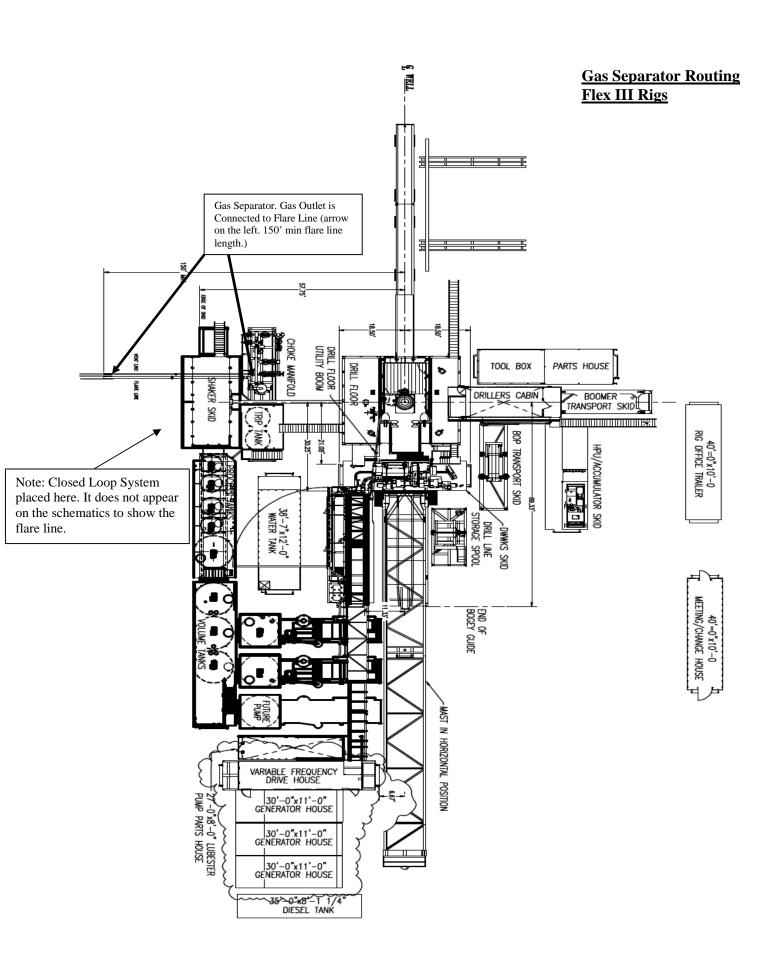


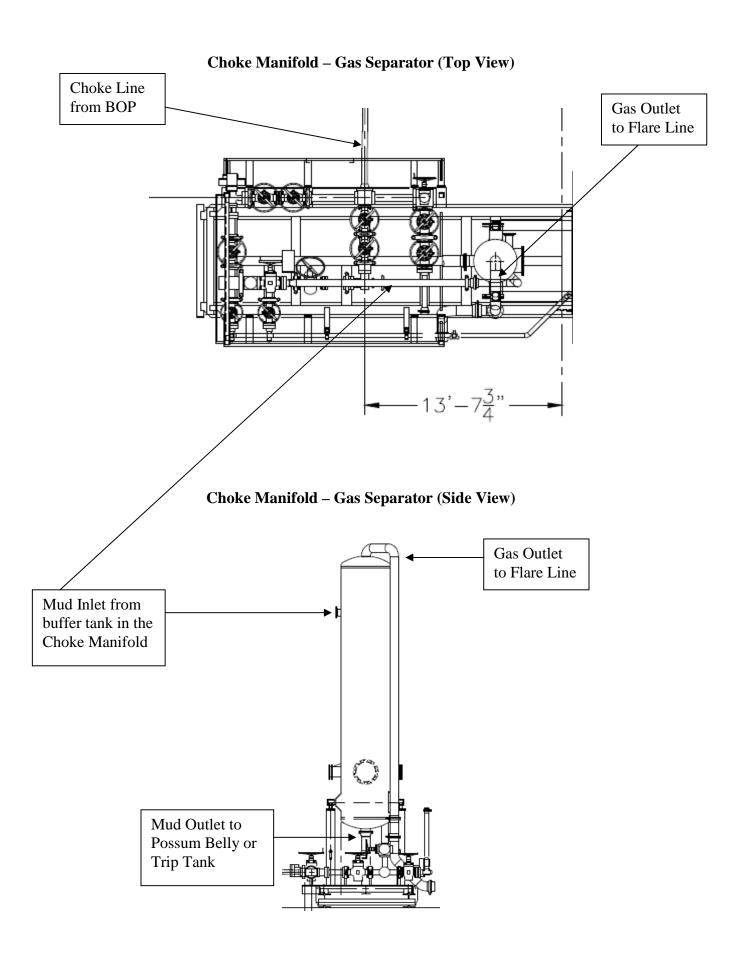
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual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

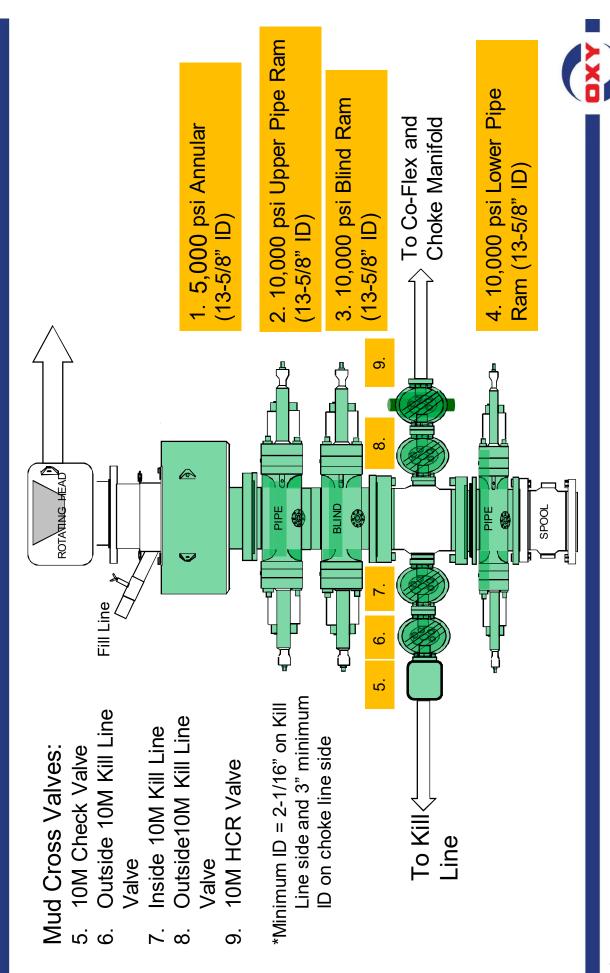








# 5/10M BOP Stack



### **Certificate of Conformity**



Certificate Number	COMO	der Reference	ContiTech
H100161	1429702		Customer Name & Address HELMERICH & PAYNE DRILLING CO
Customer Purchase Order No:	7403823		1434 SOUTH BOULDER AVE TULSA, OK 74119
Project:			USA
Test Center Address	A	ccepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed:	Gerson Mejia-Lazo 06/27/22	

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

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

### **Hydrostatic Test Certificate**



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

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

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

30 RECERTIFICATION

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

70024

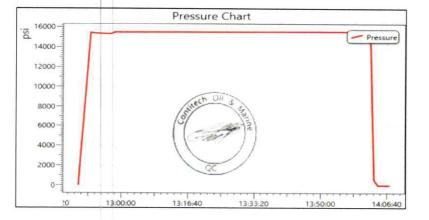
10,000

15,000

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

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



Released to Imaging: 10/14/2025 2:40:19 PM

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14286NEDEC 23/22



SERIAL #:

Gates Engineering & Services North America

7603 Prairie Oak Dr. Houston, TX. 77086

PHONE: (281) 602-4119

FAX:

EMAIL: Troy.Schmidt@gates.com

# CERTIFICATE OF CONFORMANCE

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

:YTITNAUQ	τ
SALES ORDER #:	Z869TS
	CLAMPS
:NOITGIRDESCRIPTION:	RING GROOVE SUPPLIED WITH SAFETY CLAMPS & SLINGS & LIFT EYE
- NOT DECEMBER ON	ARMOR C/W 4 1/16 10K FIX X FLOAT H2S SUITED FLANGES WITH BX 155
CUSTOMER: CUSTOMER P.O.#: CUSTOMER P/N:	A-7 AUSTIN INC DBA AUSTIN HOSE ASSEMBLY WITH STAINLESS STEEL 10 GATES CHOKE & KILL HOSE ASSEMBLY WITH STAINLESS STEEL 3" X 12 FT GATES CHOKE & KILL HOSE
	e e

HS-112019-4

:3T <i>f</i> :	6102/02/11
:317	QUALITY ASSURANCE
:38I	Drive ann

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

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

Created By: Hose Serial No.:

Test Date:

End Fitting 2:

Test Pressure: Assembly Code:

Working Pressure:

: aumeuőis : 9160

Production:

SIØZ/OZ/TT YTIJAUD

Revision 1\_022819 41/20/2019 **Р**ВОВИСТІОМ

management system.

F-PRD-005

: Signature :

: ested

Quality:

CUSTOMER P/N:

Oracle Star No.:

Product Description:

:1 gnitting 1:

Invoice No.:

Customer:

Customer Ref.:

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

Gates Engineering & Services North America certifies that:

10KER3:01S:0CK411610KE1XXELT SSA SC LE 6246486-01000689 4 1/10 TOK FLANGES FIXED

10,000 PSI. 'ISA 000'SI F41545 113018 4 1/10 TOK ELANGES FLOAT

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

Norma Cabrera HZ-112019-4 6102/02/11

PRESSURE TEST CERTIFICATE

EMAIL: Troy.Schmidt@gates.com

PHONE: (281) 602 - 4119

www.gates.com

Page 1/2

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H2-1987

11/20/2019 12:13:07 PM

## **TEST REPORT**

					Length measurement result:
				22A9	Pressure test result:
1991	15	reußty:			Visual check:
		Description:	you	0.24	Length difference:
		Part number:	%	00.0	Length difference:
те ток	3.0 × 4-1/	Fitting 2:	Sec	00.006	Mork pressure hold:
			įsd	00.0276	Mork pressure:
		Description:	292	3600.00	Test pressure hold:
		Part number:	įsd	00'000ST	Test pressure:
3.0 × 4-1/16 10K		Fitting 1:		E20-40-STD	Test procedure:
70131	NOT 31/1-1 × 0 5				<b>TEST INFORMATION</b>
		Part number:			
S C&K	3'0 TOK IM	:Ol əsoH			Customer reference:
31.4.4.				Z869TS	Sales order #:
		Description:			Production description:
BIOE	<b>[4154511</b>	Lot number:			
180001000	HS-11501	:19dmun lsi192		<b>Austin Hose</b>	Company:
, ,	TOTAL STATE	TEST OBJECT			CUSTOMER

Test operator: Roderick Shambra

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

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### TEST REPORT

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Page 2/2

Filename: D:/Certificates/Report\_112019-4.pdf

# Certificate of Conformance

DW INDUSTRIES INC.

5287 Long Drive Sylvan, TX , TX 1887 FIX

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

C\M CLAMPS  3" 10,000 psi WP CHOKE HOSE		Part Description:	-2181-0192-AO 1-2001	Customer Part Number:	Purcha
Assembly Date: 02/26/2020		τ		CTY Ordered:	lse Ord
Z-WG0Z9ZZO	Serial Number:	P-2001-S184-0495-4O		DW Industries Part Number:	er Info
DW Industries Work Order Number:		CONTACT PAUL HOFFMAN FOR		Customer Purchase Order Number:	Purchase Order Information
PAUL HOFFMAN 432-241-5360		Customer Contact:	CITADEL DRILLING		Customer Name:

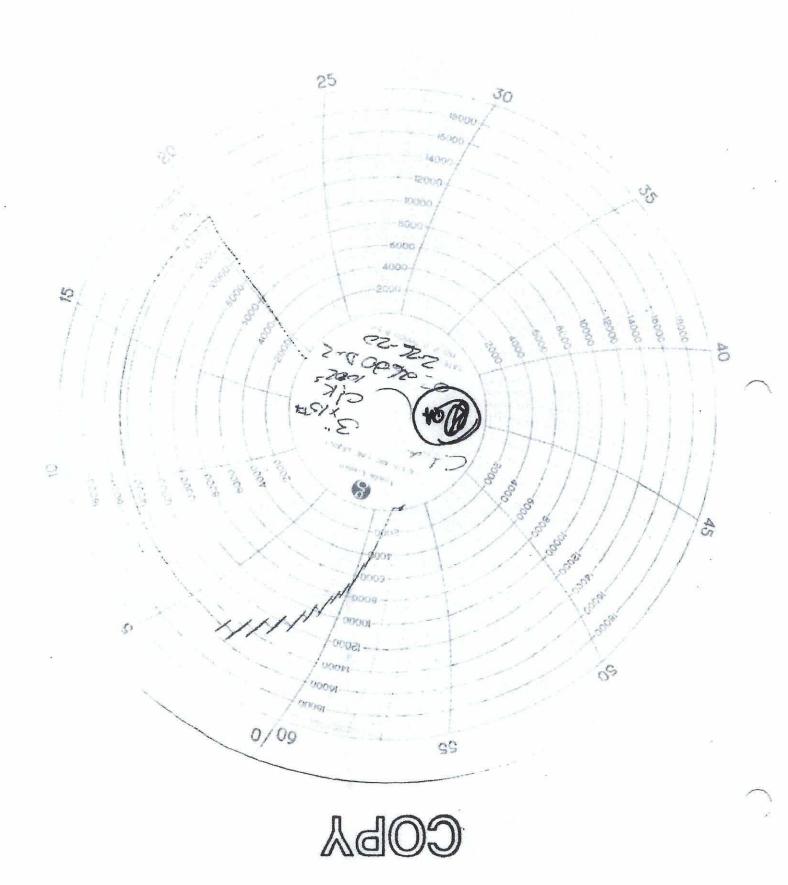
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL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

Certificate Issue Date: 2/27/2020

Carrett Crawford, Director of Quality

DW Industries Inc.

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



C/M 22 ARMOR & LIFTING EYES

4-1/16" FIXED BY FLOAT FLANGES

# Certificate of Conformance

# COBA

HOUSTON, TX 77087

DW INDUSTRIES INC.

Fax 713-644-4947

3" 10,000 psi WP CHOKE HOSE		amaidmin madi dunili	-p-SS840-4822-4-	Customer Part	rcha
0202/92/20	:91sQ vidm922A		T	CTY Ordered:	se Orc
022620DW-1	Serial Number:	T/16FXFL-ALE	D-5640-4822-4	DW Industries	ler Info
79102002	DW Industries Work Order Number:	38	FAUL FAUL PAUL F	Customer Purchase Order Number:	urchase Order Information
	DAUL HOI LPS-SEA	Customer Contact:	рыгпие	CITADEL	Customer Name:

Part Description:

J/J6FXFL-ALE

Tel. 713 644-8372

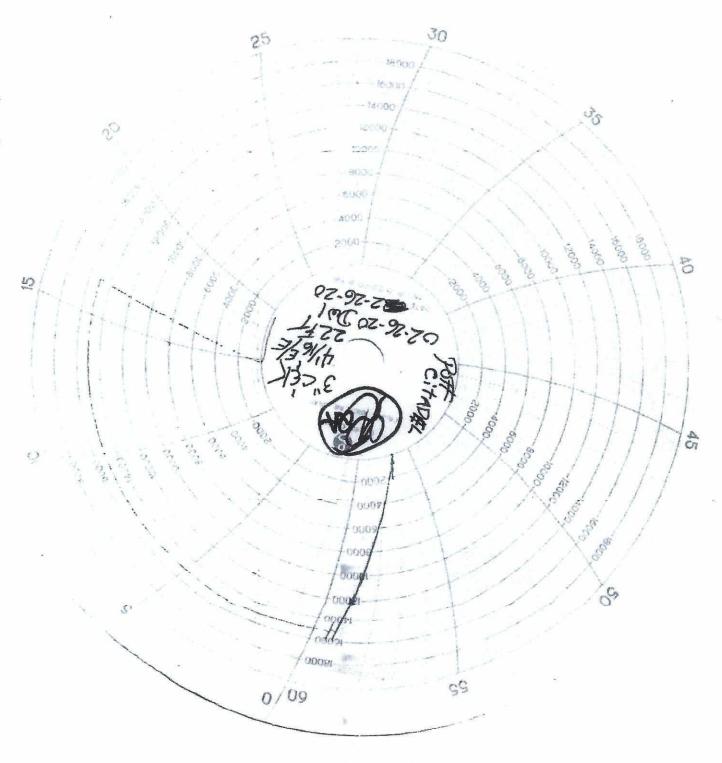
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED AND CONFORM TO ALL REQUIREMENTS OF THE PURCHASE ORDER, INCLUDING: PRESERVATION, PACKACING, PACKING, MARKING, AND PHYSICAL IDENTIFICATION REQUIREMENTS AND HAS BEEN PROCESSED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

Certificate Issue Date: 2/27/2020

Number:

Garrett Crawford, Director of Quality

DW Industries Inc.



COBA

# Certificate of Conformance

DW INDUSTRIES INC, Holston, TX 77087

Tel. 713 644-8372

Tel. 713 644-8372

ላ" EIC 602 MXE	₹ dux12du 3K M\	Part Description		Customer Part: Number:	Purcha
1/57/2023	Assembly Date:		τ	QTY Ordered:	se Ord
73070062	Serial Number:	709-"4514	9-85038-6	DW Industries Part Number:	er Info
59007082	DW Industries Work Order Number:	LL	670400	Customer Purchase Order Number:	Purchase Order Information
JUDY LOERA		ASUTIN HOSE Customer Contact:		I NITUSA	Sustomer Name:

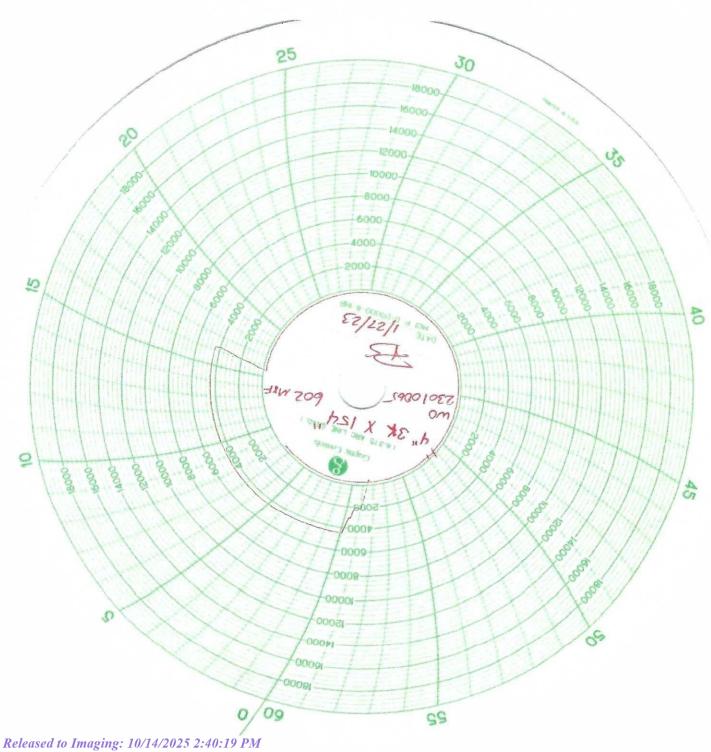
I DO HEREBY CERTIFY, AS THE AUTHORIZED REPRESENTATIVE OF DW INDUSTRIES, THAT THE PRODUCT LISTED ABOVE ARE OF THE QUALITY SPECIFIED OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS, PRESERVATION, PACKAGING, PACKING, MARKING, AND PHYSICAL OUALITY CONTROL CLAUSES, DESIGN SPECIFICATIONS, DRAWINGS,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

Certificate Issue Date: 1/27/2023

Li Mar Stellen

Quality Assurance, DW Industries, Inc.

Released to Imaging: 10/14/2025 2:40:19 PM



IN SERVICE 12-20-21



GATES ENGINEERING & SERVICES NORTH AMERICA 7603 Prairie Oak Dr. Suite 190 Houston, TX. 77086 PHONE: +1 (281) 602-4100 FAX: +1 (281) 602-4147

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

# PRESSURE TEST CERTIFICATE

Customer:

A-7 AUSTIN INC DBA AUSTIN HOSE

10/15/2021

Customer Ref.:

00595477

Hose Serial No.:

H3-101521-2

Invoice No.:

521925

Created By:

Test Date:

Micky Mhina

Product Description:

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

End Fitting 1:

Oracle Star No.:

CUSTOMER P/N:

4 1/16 10K FIXED FLANGE 68703010-10074881

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

End Fitting 2: Assembly Code:

Test Pressure:

Working Pressure:

4 1/16 10K FLOAT HEAT TREATED FLANGES L41975 091719 15,000 PSI.

10,000 PSI.

# Gates Engineering & Services North America certifies that:

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

Quality:

Date:

Signature :

QUALITY

10/15/2021 Viola n bul Production:

Date:

Signature:

**PRODUCTION** 

10/15/2021

Revision 6\_05032021

F-PRD-005B



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

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

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

# **CERTIFICATE OF CONFORMANCE**

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

CUSTOMER:

A-7 AUSTIN INC DBA AUSTIN HOSE

**CUSTOMER P.O.#:** 

00595477

CUSTOMER P./N.#:

10K3.035.0CK411610KFIXXFLTW/SSA/SC/LE

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

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

STAINLESS STEEL ARMOR SAFETY CLAMPS & LIFT EYES

SALES ORDER #:

521925

QUANTITY:

1

SERIAL #:

H3-101521-2

SIGNATURE:	Minly when	
TITLE:	QUALITY ASSURANCE	
DATE:	10/15/2021	



H3-6963

10/15/2021 10:15:57 AM

# **TEST REPORT**

CUSTOMER

Company:

Austin Distributing

**TEST OBJECT** 

Serial number:

H3-101521-2

Lot number:

L41975091719

Description:

Sales order #:

521925

Customer reference:

Hose ID:

3" 10k ck

Part number:

**TEST INFORMATION** 

Test procedure:

Production description:

Test pressure: Test pressure hold:

3600.00 10000.00

900.00

GTS-04-053

0.00 0.00

15000.00 psi sec

psi sec

% inch Fitting 1:

Part number:

Description:

Fitting 2:

Length:

Part number: Description:

3.0 x 4-1/16 10K

35

feet

3.0 x 4-1/16 10K

Visual check:

Work pressure:

Work pressure hold:

Length difference:

Length difference:

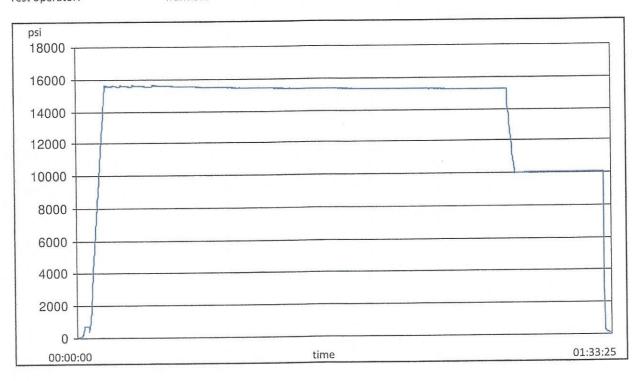
Pressure test result:

PASS

Length measurement result:

Test operator:

francisco



Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf

Page 1/2



H3-6963

10/15/2021 10:15:57 AM

# **TEST REPORT**

# **GAUGE TRACEABILITY**

S-25-A-W 110AQA1S	2021-02-	on date	Calibration due date
	2021-02-	24	2022-02-24
S-25-A-W 110D3PHQ	2021-03-	11	2022-03-11
Comment			

Filename: D:\Certificates\Report\_101521-H3-101521-2.pdf

# **Hydrostatic Test Certificate**

<b>Hydrostatic Test Certific</b>	cate	ContiTech
Certificate Number H100163	COM Order Reference 1429702 740382384	Customer Name & Address HELMERICH & PAYNE DRILLING CO 1434 SOUTH BOULDER AVE
Customer Purchase Order No: Project:		TULSA, OK 74119 USA
Test Center Address ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Accepted by COM Inspection  Gerson Mejia-Lazo  Signed:  Date: 07/14/22	Accepted by Client Inspection  Accepted by Client Inspection  Why our Quality Management System, and to the best of our

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

RECERTIFICATION

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

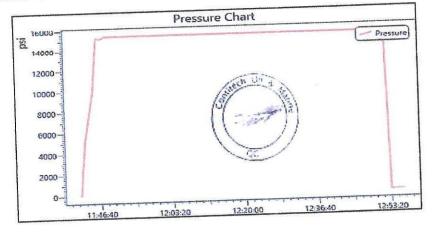
70025

10,000

15,000

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

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



# intinenta

# **Certificate of Conformity**

derundate of dome.		ContiTech
Certificate Number H100163	COM Order Reference 1429702 740382384	Customer Name & Address  HELMERICH & PAYNE DRILLING CO  1434 SOUTH BOULDER AVE
Customer Purchase Order No: Project:	140302304	TULSA, OK 74119 USA
Test Center Address	Accepted by COM Inspection	Accepted by Client Inspection
ContiTech Oil & Marine Corp. 11535 Brittmoore Park Drive Houston, TX 77041 USA	Signed: Gerson Mejia-Lazo  Date: 07/14/22	

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

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

ARMORED CHOKE HOSE

TOSANDON

4-29-22.



CONTITECH RUBBER Industrial Kft.

No: QC-DB- 120 / 2019

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# ContiTech

QUAL INSPECTION A	ITY CON		ATE		CERT. N	lo:	75819	
PURCHASER: ContiTech Oil & Marine Corp.						P.O. N°: 4501225327		
CONTITECH RUBBER order N°	1127442	HOSE TYPE:	3"	ID		Choke an	d Kill Hose	
HOSE SERIAL N°:	75819	NOMINAL / AC	TUAL LE	NGTH:		10,67 r	n / 10,68 m	
W.P. 69,0 MPa 10	000 psi	T.P. 103,5	MPa	1500	00 psi	Duration:	60	min.
Pressure test with water at ambient temperature  See attachment ( 1 page )								
COUPLINGS Typ	е	Seria	l Nº		Qua	ality	Heat N°	
3" coupling with	1	602	26		AISI	4130	A0607J	
4 1/16" 10K API Swivel F	lange end				AISI	4130	040841	
Hub					AISI 4130		54194	
3" coupling with	1	601	16		AISI 4130		A0607J	
4 1/16" 10K API b.w. Fla	ange end				AISI 4130		040431	
Not Designed For Wo	Not Designed For Well Testing  API Spec 16 C 2 <sup>nd</sup> Edition-FSL2  Temperature rate: "B"							
WE CERTIFY THAT THE ABOVE INSPECTED AND PRESSURE TO						H THE TERM	IS OF THE ORDER	
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.								
Date:  Os. April 2019.  COUNTRY OF ORIGIN HUNGARY/EU  Quality Control  ContiTech Rubber Industrial Kft. Quality Control Dept. (1)  Source Manager  ContiTech Rubber Industrial Kft. Quality Control Dept. (1)								



Prepared by	С	Cristian Rivera		Date:	8/27/2022 QIN: N/A				
Customer:	HELI	MERICH & PAYNE, INC		Location:	H&P INT	A			
User contact:	MI	TCH MCKINNIS		Phone:		oinc.com			
	Parameters Hose Details					Test Status			
		PO			740398454 (88000240   SI	N:700	)35)		
		Gates SO			525035				
		Serial #:			88000240   SN:70035				
		As Tested Seria	al:		H2-082722-1 RE-TEST				
		Hose ID:			3 IN				
		Hose type:			INSPECT AND RETEST CUST C/W 4-1/16 FLANGES BX15				
Application	า								
Informatio	n	Working press	ure	2:	10000 PSI.				PASS

## 1. Visual Examination

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

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

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

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

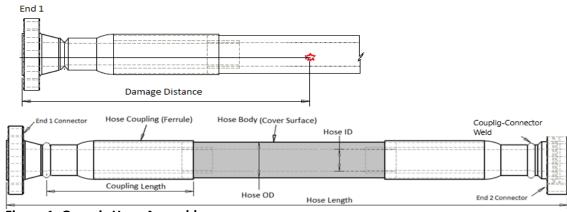


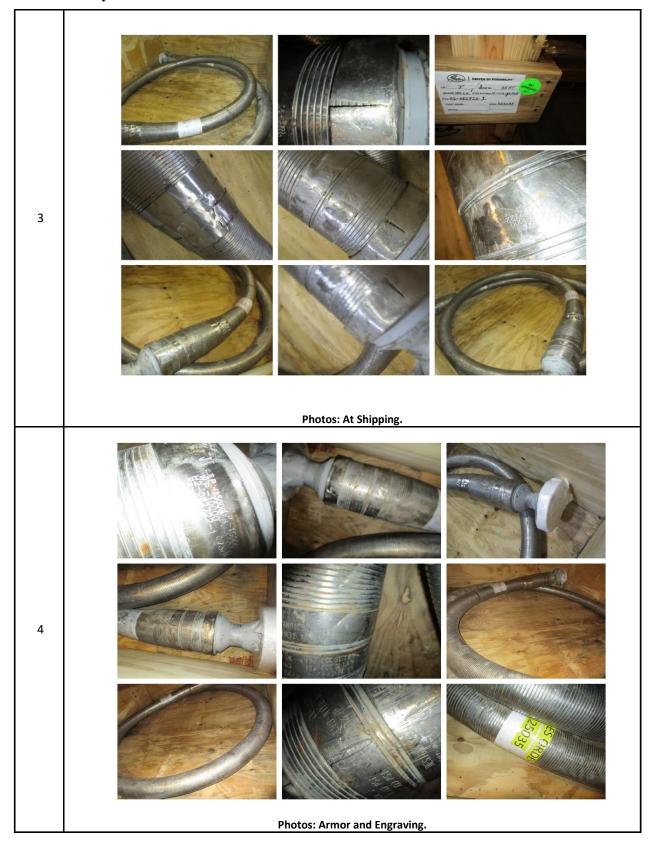
Figure 1: Generic Hose Assembly



# 1.0 Observations and comments



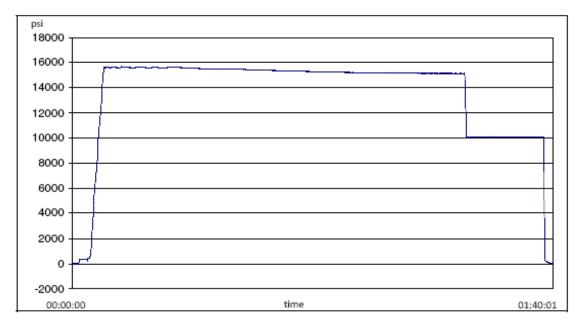








# 2. Hydro Static Pressure test



# 2.1 Hydrostatic Pressure test Procedures

	Hose Type	Test Specification	Test Date	Technician
1	IN X 35FT CHOKE & KILL	2 10V C2V	2022-08-27	Martin Orazca
	ASSEMBLY C/W 4-1/16	3 10K C&K	2022-06-27	Martin Orozco

# 2.2 Gates Hydrostatic Pressure tester

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

# Gates).

# **Hose Assembly Evaluation Sheet**

# 2.3 Hydro Static Test Pressure results

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

# Note:

1. Hydrostatic Pressure report is given in Appendix 1

# 3. Hose borescope inspection

# 3.2 Internal Failure Details

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





Photos: Liner/Coupling Interface END 1

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Photos: Liner/Coupling Interface END 2

# <u>Note</u>

Borescope completed? Yes

# 4. Summary

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



# **APPENDIX 1: Pressure Chart**



H2-8316

8/27/2022 8:51:22 AM

# **TEST REPORT**

TEST OBJECT CUSTOMER Company: Serial number: H2-082722-1 Lot number: Production description: Description: Sales order #: 525035

740398454 (88000240 | Customer reference: Hose ID: 3 10k C&K

SN:70035) Part number: TEST INFORMATION

3 10K C&K 3.0 x 4-1/16 10K Test procedure: Fitting 1: 15000.00 Test pressure: Part number: psi

Test pressure hold: 3600.00 Description: Work pressure: 10000.00

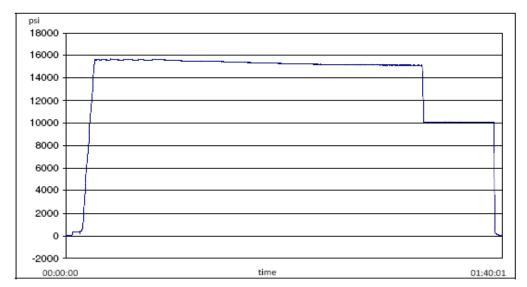
Work pressure hold: 900.00 Fitting 2: 3.0 x 4-1/16 10K sec Length difference: 0.00 % Part number:

Length difference: 0.00 Description:

Visual check: Length: 35 feet

PASS Pressure test result: Length measurement result:

Test operator: Martin



Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf Page 1/2

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# **Hose Assembly Evaluation Sheet**





H2-8316

8/27/2022 8:51:22 AM

# **TEST REPORT**

## GAUGE TRACEABILITY

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

Filename: D:\Certificates\Report\_082722-H2-082722-1.pdf Page 2/2



# **APPENDIX 2: Certificate of Conformance**



**GATES ENGINEERING & SERVICES NORTH AMERICA** 7603 Prairie Oak Dr.

Houston, TX. 77086

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

# CERTIFICATE OF CONFORMANCE

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

CUSTOMER:

HELMERICH & PAYNE, INC

CUSTOMER P.O.#:

740398454 (88000240 | SN:70035)

CUSTOMER P/N:

88000240 | SN:70035

PART DESCRIPTION:

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

FLANGES BX155 RING GROOVE EACH END

SALES ORDER #:

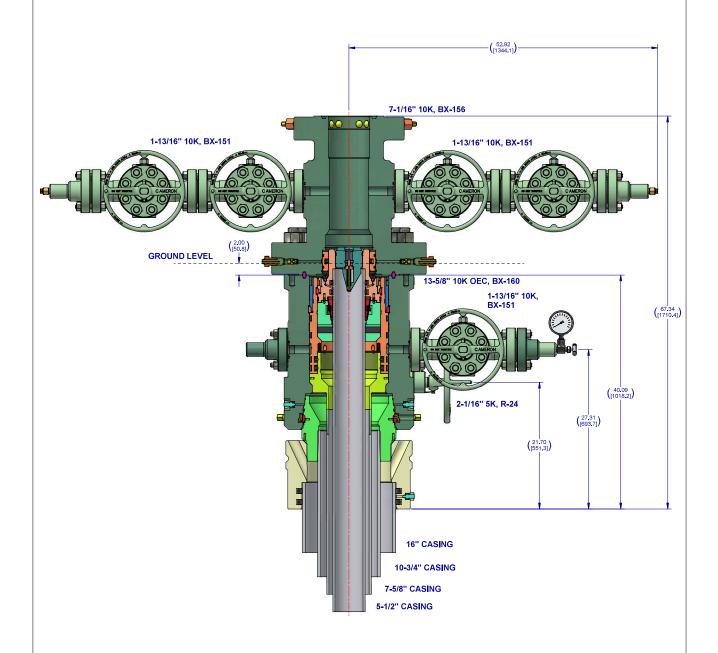
525035

QUANTITY: SERIAL #:

H2-082722-1 RE-TEST

IGNATURE:	( Reverc	
TITLE:	QUALITY ASSURANCE	
DATE:	8/27/2022	

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#### Notes:

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

		CONF	IDEN	ITIAL	
SURFACE TREATMENT	DO NOT SC			CAMERON	SURFACE
	D. GOTTUNG	DATE	W	A Schlumberger Company	SYSTEMS
MATERIAL & HEAT TREAT		2 Dec 21	_		
	D. GOTTUNG	2 Dec 21		OXY 13-5/8" 10K AD/	APT
	APPROVED BY:	DATE	1	16" X 10-3/4" X 7-5/8" >	< 5-1/2"
	D. GOTTUNG	2 Dec 21			
ESTIMATED 651 WEIGHT: 29	5.617 LBS INITIAL USE BM: 55.434 KG		4 of 4	SD-053434-94-	

# 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)

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

#### External:

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

## Gas Column (Surface)

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

## Bullheading (Surface / Intermediate)

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

## Gas Kick (Intermediate)

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

Tubing Leak Near Surface While Producing (Production)

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

Tubing Leak Near Surface While Stimulating (Production)

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

Injection / Stimulation Down Casing (Production)

- o 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**



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

20,000 MIN 22,500 OPTI 25,000 MAX

Torque with Sealability (ft-lb)

36,000 MTS

Locked Flank Torque (ft-lb)

4,500 **MIN** 15,750 **MAX** 

(2) MTS: Maximum Torque with Sealability.

#### PIPE BODY PROPERTIES

5.500	in.
4.778	in.
0.361	in.
87.5	%
20.00	lb/ft
19.83	lb/ft
4.653	in.
Controlle	ed Yield
110	ksi
125	ksi
140	ksi
641	klb
12,640	psi
11,110	psi
	4.778 0.361 87.5 20.00 19.83 4.653 Controlle 110 125 140 641 12,640

#### **CONNECTION PROPERTIES**

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

#### JOINT PERFORMANCES

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

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



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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 513095

#### **ACKNOWLEDGMENTS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	513095
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### **ACKNOWLEDGMENTS**

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

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

CONDITIONS

Action 513095

#### **CONDITIONS**

Operator:	OGRID:
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	Action Type:
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#### CONDITIONS

Created By	Condition	Condition Date
guthries	Cement is required to circulate on both surface and intermediate1 strings of casing.	10/8/2025
guthries	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	10/8/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	10/14/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	10/14/2025
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.	10/14/2025
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.	10/14/2025