Form 3160-3 (June 2015) UNITED STATES		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018				
DEPARTMENT OF THE I BUREAU OF LAND MAN	5. Lease Serial No.6. If Indian, Allotee or Tribe Name7. If Unit or CA Agreement, Name and No.					
APPLICATION FOR PERMIT TO D						
1a. Type of work: DRILL						
	other ingle Zone	Multiple Zone		8. Lease Name and W	Vell No.	
	-	_		[33	0861]	
2. Name of Operator [16696]				9. API Well No. 30-	-025-50312	
3a. Address	3b. Phone N	o. (include area coa	le)	10. Field and Pool, or	r Exploratory [22	200]
4. Location of Well <i>(Report location clearly and in accordance v</i> At surface	with any State	requirements.*)		11. Sec., T. R. M. or I	Blk. and Survey or	Area
At proposed prod. zone	*			12. County or Parish	13. State	
14. Distance in miles and direction from nearest town or post off	nce*		1	12. County of Parish	15. State	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	n to nearest y or lease line, ft.			cing Unit dedicated to this well		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed	d Depth	20. BLM/	M/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will	start*	23. Estimated duratio	n	
	24. Attac	hments				
The following, completed in accordance with the requirements o (as applicable)	f Onshore Oil	and Gas Order No.	1, and the H	Iydraulic Fracturing ru	le per 43 CFR 316	2.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office 	,	Item 20 above). 5. Operator certific	cation.	s unless covered by an mation and/or plans as r	-	
25. Signature	Name	(Printed/Typed)		Date		
Title				I		
Approved by (Signature)	Name	Name (Printed/Typed) Date			Date	
Title	Office	Office				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds legal o	or equitable title to t	hose rights	in the subject lease wh	ich would entitle th	ne
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					ny department or ag	gency
NGMP Rec 06/08/2022						
		TH CONDIT	IONS	07/0	2)6/2022	
SL	VED WI	TH COMPA				
(Continued on page 2)				*(Ins	tructions on pa	ge 2)

Approval Date: 06/03/2022

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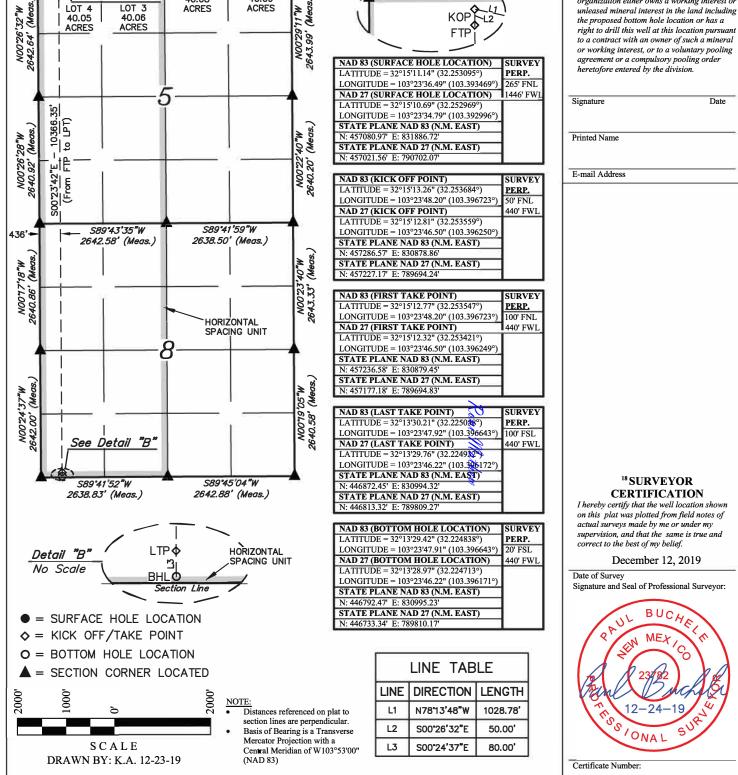
District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT											
	¹ API Number 30-025-50312 2200 ² Pool Code				ANTELOPE RIDGE;BOONE SPRING						
⁴ Property C 330861			⁵ Property Name MALTESE 5 8 FED COM							⁶ Well Number 1H	
⁷ OGRID N 16696			⁸ Operator Name OXY USA INC.					345	⁹ Elevation 52.3' (NAVD 88)		
	¹⁰ Surface Location										
UL or lot no. 3	Section 5	Township 24S	Range 35E	Lot Idn	Feet from t 265	he	North/South line NORTH	Feet from the 1446	East/We WE		County LEA
	"Bottom Hole Location If Different From Surface										
UL or lot no. M	Section 8	Township 24S	Range 35E	Lot Idn	Idn Feet from the 20 North/South line SOUTH Feet from the 440 East/West line WEST				County LEA		
¹² Dedicated Acr 640.11	es ¹³ Jo	Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.									
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.											
16 589'42'19"W 589'42'25"W 2640.60' (Meas.) 2641.36' (Meas.) T23S			SPACING UNIT I here here.			¹⁷ OPERATOR CERTIFICATION reby certify that the information contained in is true and complete to the best of my					
	ee Deta	., ., . L	OT 2 0.08	LOT 1 40.09	(; ;	Section Line knowledge and belief, and organization either own.			elief, and that this er owns a working interest or		



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INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

Additional Operator Remarks

Location of Well

0. SHL: LOT 3 / 265 FNL / 1446 FWL / TWSP: 24S / RANGE: 35E / SECTION: 5 / LAT: 32.253095 / LONG: -103.393469 (TVD: 0 feet, MD: 0 feet) PPP: LOT 12 / 2635 FNL / 438 FWL / TWSP: 24S / RANGE: 35E / SECTION: 8 / LAT: 32.232057 / LONG: -103.396664 (TVD: 9146 feet, MD: 16771 feet) PPP: LOT 4 / 5 FNL / 435 FWL / TWSP: 24S / RANGE: 35E / SECTION: 8 / LAT: 32.239313 / LONG: -103.396685 (TVD: 9109 feet, MD: 14130 feet) PPP: LOT 4 / 100 FNL / 440 FWL / TWSP: 24S / RANGE: 35E / SECTION: 5 / LAT: 32.253546 / LONG: -103.396725 (TVD: 9042 feet, MD: 9466 feet) BHL: LOT 13 / 20 FSL / 440 FWL / TWSP: 24S / RANGE: 35E / SECTION: 8 / LAT: 32.224837 / LONG: -103.396644 (TVD: 9185 feet, MD: 19397 feet)

BLM Point of Contact

Name: TENILLE ORTIZ Title: Legal Instruments Examiner Phone: (575) 234-2224 Email: tortiz@blm.gov

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Saker, Kestrel, Maltese Wells

Leases: NMNM077090 and NMNM014164

Oxy USA Incorporated

Saker 6-7 Fed Com 1H-6H, 11H-14H, 23-26, 31-38, 91-92

Kestrel 1-12 Fed Com 1H-3H, 11H-12H, 21H-22H, 31H-33H, 91H-92H

Maltese 1H-6H, 11H-14H, 31H-38H, 91H-94H

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

□General Provisions □Permit Expiration □Archaeology, Paleontology, and Historical Sites □Noxious Weeds Special Requirements Watershed Lesser Prairie Chicken VRM IV □Construction Notification Topsoil Closed Loop System Federal Mineral Material Pits Well Pads Roads □Road Section Diagram ☑Production (Post Drilling) Well Structures & Facilities Pipelines **Electric Lines** □Interim Reclamation □Final Abandonment & Reclamation

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Watershed:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The topsoil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

BURIED/SURFACE LINE(S):

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

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ELECTRIC LINE(S):

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

Range:

Cattleguards

Where a permanent cattleguard is approved, an appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Fence Requirement

Where entry granted across a fence line, the fence must be H-braced or angle iron braced and tied off on both sides of the passageway prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall consult with the private surface landowner or the grazing allotment holder prior to cutting any fence(s).

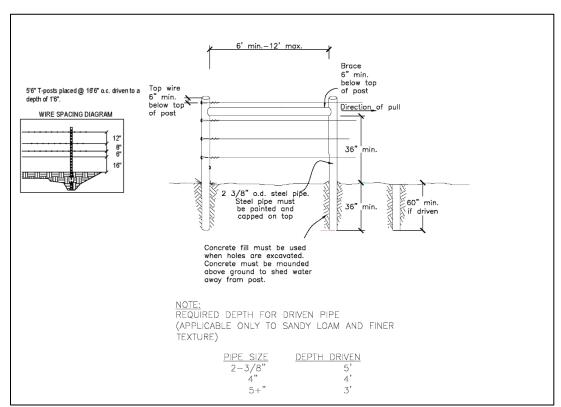
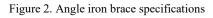
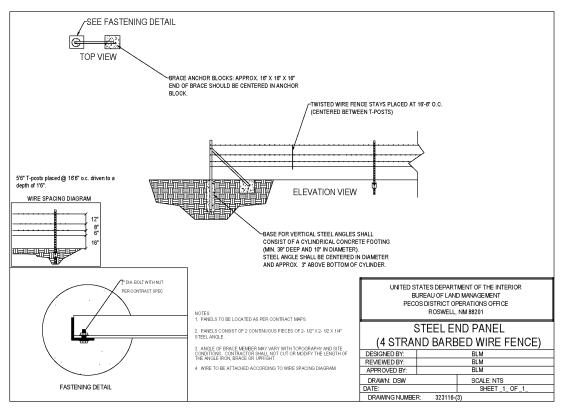


Figure 1. Pipe H-brace specifications

Approval Date: 06/03/2022

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Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Lesser Prairie Chicken:

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an

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operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VRM IV:

Above-ground structures including meter housing that are not subject to safety requirements are painted a flat non-reflective paint color, Shale Green from the BLM Standard Environmental Color Chart (CC-001: June 2008).

Short-term mitigation measures include painting all above-ground structures that are not subject to safety requirements (including meter housing) Shale Green, which is a flat non-reflective paint color listed in the BLM Standard Environmental Color Chart (CC-001: June 2013). Long-term mitigation measures include the removal of wells and associated infrastructure following abandonment (end of cost-effective production). Previously impacted areas will be reclaimed by removing structures and caliche pads, returning disturbed areas to natural grade, and revegetating with an approved BLM seed mixture; thereby eliminating visual impacts.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

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Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

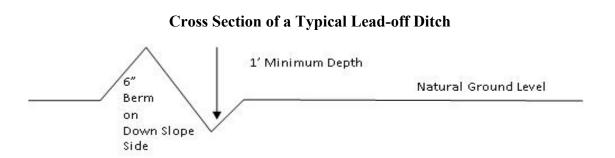
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

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Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattle guards

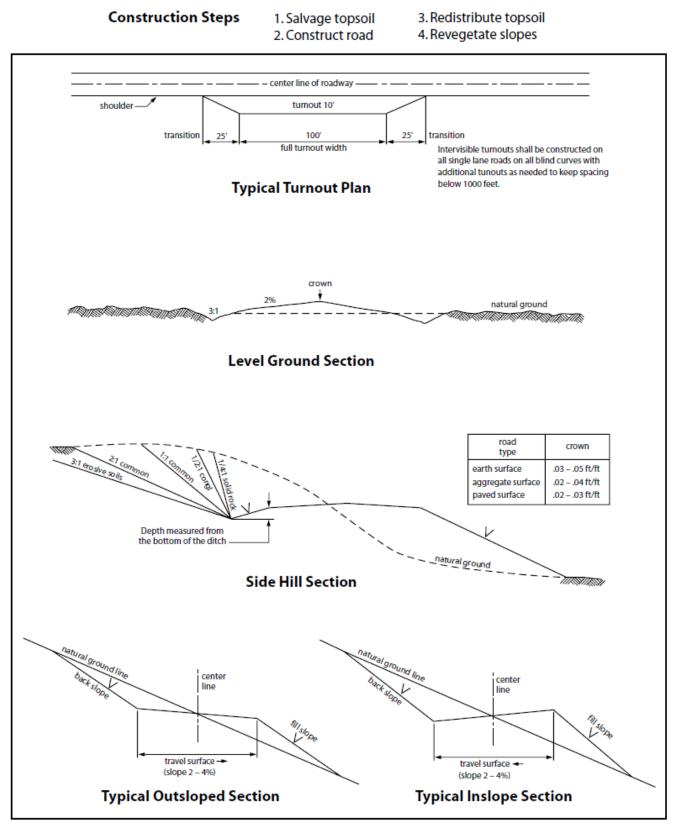
An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





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VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 $\frac{1}{2}$ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

• The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, passages, or voids are intersected by trenching, and no pipe will be laid in the

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trench at that point until clearance has been issued by the Authorized Officer.

- If a void is encountered alignments may be rerouted to avoid the karst feature and lessen; the potential of subsidence or collapse of karst features, buildup of toxic or combustible gas, or other possible impacts to cave and karst resources from the buried pipeline.
- Special restoration stipulations or realignment may be required at such intersections, if any.
- A leak detection plan <u>will be submitted to the BLM Carlsbad Field Office for approval</u> prior to pipeline installation. The method could incorporate gauges to detect pressure drops, situating values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.
- Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.
- All spills or leaks will be reported to the BLM immediately for their immediate and proper treatment.

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages

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resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be <u>50</u> feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>30</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation*.)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately <u>6</u> inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

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12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

Seed Mixture 2

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered

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inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

20. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the Grant and attachments, including stipulations, survey plat(s) and/or map(s), shall be on location during construction. BLM personnel may request to review a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, Holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC § 2601 *et seq.* (1982) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant (*see* 40 CFR, Part 702-799 and in particular, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193). Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy

of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. § 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way Holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way Holder on the Right-of-Way. This provision applies without regard to whether a release is caused by Holder, its agent, or unrelated third parties.

4. Holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. Holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of Holder including, but not limited to: construction, operation, maintenance, and termination of the facility;
- b. Activities of other parties including, but not limited to:
 - (1) Land clearing
 - (2) Earth-disturbing and earth-moving work
 - (3) Blasting
 - (4) Vandalism and sabotage;
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of Holder, regardless of fault. Upon failure of Holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he/she deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of Holder. Such action by the Authorized Officer shall not relieve Holder of any responsibility as provided herein.

6. All construction and maintenance activity shall be confined to the authorized right-of-way width of <u>30</u> feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline shall be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline shall be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity shall be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation shall be allowed unless approved in writing by the Authorized Officer.

8. Holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline shall be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of <u>6</u> inches under all roads, "twotracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 16 for more information.

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If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

16. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

17. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

18. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

19. Surface pipelines shall be less than or equal to 4 inches and a working pressure below 125 psi.

C. ELECTRIC LINES

- Smaller powerlines will be routed around sinkholes and other karst features to avoid or lessen the possibility of encountering near surface voids and to minimize changes to runoff or possible leaks and spills from entering karst systems. Larger powerlines will adjust their pole spacing to avoid cave and karst features.
- The BLM, Carlsbad Field Office, will be informed immediately if any subsurface drainage channels, cave passages, or voids are penetrated during construction.
- No further construction will be done until clearance has been issued by the Authorized Officer.
- Special restoration stipulations or realignment may be required.

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180

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days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

11. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

12. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

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Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species
Sand dropseed (Sporobolus cryptandrus) Sand love grass (Eragrostis trichodes)

Plains bristlegrass (Setaria macrostachya)

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

Approval Date: 06/03/2022

l<u>b/acre</u> 1.0 1.0

2.0

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERAT (OXY US	A INC.					
	LEASE NO.:	NMNM					
	Section 5, T.24 S., R.35 E., NMP						
	Lea Coun	ty, New Mexico)				
			*				
WELL N	AME & NO.:	MALTES	E 5_8 FEDERA	AL COM 1H			
SURFACE HOLE	FOOTAGE:		265'/N & 1446'/W				
BOTTOM HOL	E FOOTAGE	20'/S & 440'/W					
		•					
WELL N	AME & NO.:	MALTES	E 5_8 FEDERA	AL COM 2H			
SURFACE HOLE	265'/N &	1481'/W					
BOTTOM HOL	E FOOTAGE	20'/S & 1	260'/W				
WELL N	MALTES	E 5_8 FEDERA	AL COM 3H				
SURFACE HOLE	FOOTAGE:	265'/N &	1516'/W				
BOTTOM HOL	E FOOTAGE	20'/S & 2	200'/W				
WELL N	AME & NO.:	MALTES	E 5_8 FEDERA	AL COM 4H			
SURFACE HOLE	FOOTAGE:	490'/N &	1445'/E				
BOTTOM HOL	E FOOTAGE	20'/S & 2	200'/E				
WELL N	MALTES	E 5_8 FEDERA	AL COM 5H				
SURFACE HOLE	490'/N &	1410'/E					
BOTTOM HOL	E FOOTAGE	20'/S & 1	20'/S & 1210'/E				
WELL N	MALTESE 5_8 FEDERAL COM 6H						
SURFACE HOLE	490'/N & 1375'/E						
BOTTOM HOL	E FOOTAGE	20'/S & 3	30'/E				
COA							
H2S	• Yes		C No				
D= (= =1				O D 111	D		

Special Requirements	□ Water Disposal	COM	🗖 Unit
Other	Fluid Filled	Cement Squeeze	Pilot Hole
Other	4 String Area	Capitan Reef	□ WIPP
Wellhead	C Conventional	C Multibowl	💽 Both
Variance	C None	• Flex Hose	C Other
Cave/Karst Potential	Critical		
Cave/Karst Potential	🖸 Low	C Medium	C High
Potash	None	C Secretary	C R-111-P
H2S	• Yes	C No	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Cinta Rojo** formation. 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

Casing Design:

- 1. The **13-3/8** inch surface casing shall be set at approximately **925** feet (a minimum of **25 feet (Lea County)** into the Rustler Anhydrite and above the salt) 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 <u>8</u>
 <u>hours</u> 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.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The **9-5/8** inch intermediate casing shall be set at approximately **5354** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- In <u>Capitan Reef 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.
- Special Capitan Reef requirements. If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
 - Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
 - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.
- 3. 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 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
- b. Second stage above DV tool:
 - Cement should tie-back at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
 Wait an accent (WOC) time for a primary accent ich is to include

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Operator has proposed to pump down 9-5/8" X 5-1/2" annulus. <u>Operator must run</u> a CBL from TD of the 5-1/2" casing to surface. Submit results to BLM.

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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000 (3M)** psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000** (**3M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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- 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.
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure

BOPE Break Testing Variance (Note: For 5M BOPE or less)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less.
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- 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 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.
- The BLM is to be contacted (**575-689-5981 Lea County**) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.

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• 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.

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)
 - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - Lea County 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
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity 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-P 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 Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 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:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. 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.
 - a. 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 when specified), 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).

- b. 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 Onshore Order No. 2.

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.

NMK – 5-23-2022

Approval Date: 06/03/2022



Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

<u>Scope</u>

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.

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Discussion

Implementation:	This plan with all details is to be fully implemented before drilling to <u>commence</u> .
Emergency response Procedure:	This section outlines the conditions and denotes steps to be taken in the event of an emergency.
Emergency equipment Procedure:	This section outlines the safety and emergency equipment that will be required for the drilling of this well.
Training provisions:	This section outlines the training provisions that must be adhered to prior to drilling.
Drilling emergency call lists:	Included are the telephone numbers of all persons to be contacted should an emergency exist.
Briefing:	This section deals with the briefing of all people involved in the drilling operation.
Public safety:	Public safety personnel will be made aware of any potential evacuation and any additional support needed.
Check lists:	Status check lists and procedural check lists have been included to insure adherence to the plan.
General information:	A general information section has been included to supply support information.

Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

Emergency Equipment Requirements

1. <u>Well control equipment</u>

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 BLM Onshore Order #2.

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. <u>Hydrogen sulfide sensors and alarms</u>

- 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. <u>Well Testing</u>

No drill stem test will be performed on this well.

8. <u>Evacuation plan</u>

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.
	<i>4</i> .	Assess situation and take control measures.
		rissess situation and take control medistres.
Driller:	1.	Don escape unit, shut down pumps, continue

		rotating DP.
	2.	Check monitor for point of release.
	3.	Report to nearest upwind designated safe briefing / muster area.
	4.	Check status of personnel (in an attempt to rescue, use the buddy system).
	5.	Assigns least essential person to notify Drill Site Manager and tool pusher by quickest means in case of their absence.
	6.	Assumes the responsibilities of the Drill Site Manager and tool pusher until they arrive should they be absent.
Derrick man Floor man #1 Floor man #2	1.	Will remain in briefing / muster area until instructed by supervisor.
Mud engineer:	1.	Report to nearest upwind designated safe briefing / muster area.
	2.	When instructed, begin check of mud for ph and H2S level. (Garett gas train.)
Safety personnel:	1.	Mask up and check status of all personnel and secure operations as instructed by drill site manager.

Taking a kick

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

Instructions for igniting the well

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

<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:_____

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.

Common name	Chemical formula	Specific gravity	Threshold limit	Hazardous limit	Lethal concentration (3)
name	Tormula	(sc=1)	(1)	(2)	(3)
Hydrogen Cyanide	Hcn	0.94	10 ppm	150 ppm/hr	300 ppm
Hydrogen Sulfide	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfur Dioxide	So2	2.21	5 ppm	-	1000 ppm
Chlorine	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	Combustibl	e above 5% in air

Table i <u>Toxicity of various gases</u>

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 (%)	<u> Ppm</u>	Grains	
		100 std. Ft3*	
0.001	<10	00.65	Obvious and unpleasant odor.

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

*at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

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

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

<u>Rescue</u> <u>First aid for H2S poisoning</u>

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 Permian Delaware NM Basin Drilling & Completions Incident Reporting OXY Permian Crisis Team Hotline Notification Person Location **Office Phone Cell/Mobile Phone Home Phone Pager Number Drilling & Completions Department** Drilling & Completions Manager: John Willis Houston (713) 366-5556 (713) 259-1417 Drilling Superintendent: Simon Benavides Houston (713) 215-7403 (832) 528-3547 **Completions Superintendent: Chris Winter** (806) 239-8774 Houston (713) 366-5212 Drilling Eng. Supervisor: Diego Tellez (713) 303-4932 Houston (713) 350-4602 Drilling Eng. Supervisor: Randy Neel (713) 215-7987 (713) 517-5544 Houston Completions Eng. Supervisor: Evan Hinkel Houston (713) 366-5436 (281) 236-6153 Drilling & Completions HES Lead. Ryan Green Houston 713-336-5753 281-520-5216 Carlsbad Drilling & Completions HES Advisor:Kenny Williams (432) 686-1434 (337) 208-0911 Drilling & Completions HES Advisor:Kyle Holden Carlsbad (432) 686-1435 (661) 369-5328 Carlsbad Drilling & Completions HES Advisor Sr:Dave Schmidt (559) 310-8572 Drilling & Completions HES Advisor. :Seth Doyle Carlsbad (337) 499-0756 HES / Enviromental & Regulatory Cell Phone Location Office Department Jon Hamil-HES Manager Houston (713) 497-2494 (832) 537-9885 Mark Birk-HES Manager Houston (713) 350-4615 (949) 413-3127 Midland Austin Tramell (432) 699-4208 (575) 499-4919 Rico Munoz Midland (432) 699-8366 (432) 803-4116 Amber DuckWorth Midland (832) 966-1879 (832) 454-8137 Kelley Montgomery- Regulatory Manager Houston (713) 366-5716 Sandra Musallam -Regulatory Lead Houston +1 (713) 366-5106 +1 (713) 504-8577 Bishop, Steve-DOT Pipeline Coordinator Midland 432-685-5614 Wilson, Dusty-Safety Advisor Midland 432-685-5771 (432) 254-2336

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Robert Barrow-Risk Engineer Manager	Houston	(713) 366-5611	(832) 867-5336	
Sarah Holmes-HSE Cordinator	Midland	432-685-5758		
Administrative	Location	Office		
Sarah Holmes	Midland	432-685-5830		
Robertson, Debbie	Midland	432-685-5812		
Laci Hollaway	Midland	(432) 685-5716	(432) 631-6341	
Administrative	Location	Office	•	
Rosalinda Escajeda	Midland	432-685-5831		
Moreno, Leslie (contract)	Hobbs	575-397-8247		
Sehon, Angela (contractor)	Levelland	806-894-8347		
Vasquez, Claudia (contractor)	North Cowden	432-385-3120		
XstremeMD	Location	Office		
Medical Case Management	Orla, TX	(337) 205-9314		
Axiom Medical Consulting	Location	Office		
Medical Case Management		(877) 502-9466		
Regulatory Agencies				
Bureau of Land Management	Carlsbad, NM	(505) 887-6544		
Bureau of Land Management	Hobbs, NM	(505) 393-3612		
Bureau of Land Management	Roswell, NM	(505) 393-3612		
Bureau of Land Management	Santa Fe, NM	(505) 988-6030		
DOT Juisdictional Pipelines-Incident Reporting New Mexico Public Regulaion Commission	Santa Fe, NM	(505) 827-3549 (505) 490-2375		
DOT Juisdictional Pipelines-Incident Reporting Texas Railroad Commission	Austin, TX	(512) 463-6788		
EPA Hot Line	Dallas, Texas	(214) 665-6444		
Federal OSHA, Area Office	Lubbock, Texas	(806) 472-7681		
National Response Center	Washington, D. C.	(800) 424-8802		

National Infrastructure Coordinator Center		(202) 282-9201		
New Mexico Air Quality Bureau	Santa Fe, NM	(505) 827-1494		
New Mexico Oil Conservation Division	Artesia, NM	(505) 748-1283	After Hours (505) 370- 7545	
New Mexico Oil Conservation Division	Hobbs, NM	(505) 393-6161		
New Mexico Oil Conservation Division	Santa Fe, NM	(505) 471-1068		
New Mexico OCD Environmental Bureau	Santa Fe, NM	(505) 476-3470		
New Mexico Environmental Department	Hobbs, NM	(505) 827-9329		
NM State Emergency Response Center	Santa Fe, NM	(505) 827-9222		
Railroad Commission of TX	District 1 San Antonio,	(210) 227-1313		
Railroad Commission of TX	District 7C San Angelo	(325) 657-7450		
Railroad Commission of TX	District 8, 8A Midland,	(432) 684-5581		
Texas Emergency Response Center	Austin, TX	(512) 463-7727		
TCEQ Air	Region 2 Lubbock, TX	(806) 796-3494		
TCEQ Water/Waste/Air	Region 3 Abilene, TX	(325) 698-9674		
TCEQ Water/Waste/Air	Region 7 Midland, TX	(432) 570-1359		
TCEQ Water/Waste/Air	Region 9 San Antonio,	(512) 734-7981		
TCEQ Water/Waste/Air	Region 8 San Angelo	(325) 655-9479		
Medical Facilities				
Abernathy Medical Clinic	Abernathy, TX	(806) 298-2524		
Alliance Hospital	Odessa, TX	(432) 550-1000		
Artesia General Hospital	Artesia, NM	(505) 748-3333		
Brownfield Regional Medical Center	Brownfield, TX	(806) 637-3551		
Cogdell Memorial Hospital	Snyder, TX	(325) 573-6374		
Covenant Hospital Levelland	Levelland, TX	(806) 894-4963		
Covenant Medical Center	Lubbock, TX	(806) 725-1011		
Covenant Medical Center Lakeside	Lubbock, TX	(806) 725-6000		
Covenant Family Health	Synder, TX	(325) 573-1300		
Crockett County Hospital	Ozona, TX	(325) 392-2671		
Guadalupe Medical Center	Carlsbad, NM	(505) 887-6633		
Lea Regional Hospital	Hobbs, NM	(505) 492-5000		

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McCamey Hospital	McCamey, TX	(432) 652-8626		
Medical Arts Hospital	Lamesa, TX	(806) 872-2183		
Medical Center Hospital	Odessa, TX	(432) 640-4000		
Medi Center Hospital	San Angelo, TX	(325) 653-6741		
Memorial Hospital	Ft. Stockton	(432) 336-2241		
Memorial Hospital	Seminole, TX	(432) 758-5811		
Midland Memorial Hospital	Midland, TX	(432) 685-1111		
Nor-Lea General Hospital	Lovington, NM	(505) 396-6611		
Odessa Regional Hospital	Odessa, TX	(432) 334-8200		
Permian General Hospital	Andrews, TX	(432) 523-2200		
Reagan County Hospital	Big Lake, TX	(325) 884-2561		
Reeves County Hospital	Pecos, TX	(432) 447-3551		
Shannon Medical Center	San Angelo, TX	(325) 653-6741		
Union County General Hospital	Clayton, NM	(505) 374-2585		
University Medical Center	Lubbock, TX	(806) 725-8200		
Val Verde Regional Medical Center	Del Rio, TX	(830) 775-8566		
Ward Memorial Hospital	Monahans, TX	(432) 943-2511		
Yoakum County Hospital	Denver City, TX	(806) 592-5484		
Law Enforcement - Sheriff				
Andrews Cty Sheriff's Department	Andrews County(Andre	(432) 523-5545		
Crane Cty Sheriff's Department	Crane, County (Crane)	(432) 558-3571		
Crockett Cty Sheriff's Department	Crockett County (Ozon	(325) 392-2661		
Dawson Cty Sheriff's Department	Dawson County (Lame	(806) 872-7560		
Ector Cty Sheriff's Department	Ector County (Odessa)	(432) 335-3050		
Eddy Cty Sheriff's Department	Eddy County (Artesia)	(505) 746-2704		
Eddy Cty Sheriff's Department	Eddy County (Carlsbad	(505) 887-7551		
Gaines Cty Sheriff's Department	Gaines County (Semind	(432) 758-9871		
Hockley Cty Sheriff's Department	Hockley County(Levell	(806) 894-3126		
Kent Cty (Jayton City Sheriff's Dept.)	Kent County(Jayton)	(806) 237-3801		
Lea Cty Sheriff's Department	Lea County (Eunice)	(505) 384-2020		
Lea Cty Sheriff's Department	Lea County (Hobbs)	(505) 393-2515		

Lea Cty Sheriff's Department	Lea County (Lovington	(505) 396-3611		
Lubbock Cty Sheriff's Department	Lubbock Cty (Abernath	(806) 296-2724		
Midland Cty Sheriff's Department	Midland County (Midla	(432) 688-1277		
Pecos Cty Sheriff's Department	Pecos County (Iraan)	(432) 639-2251		
Reeves Cty Sheriff's Department	Reeves County (Pecos)	(432) 445-4901		
Scurry Cty Sheriff's Department	Scurry County (Snyder)	(325) 573-3551		
Terry Cty Sheriff's Department	Terry County (Brownfie	(806) 637-2212		
Union Cty Sheriff's Department	Union County (Clayton	(505) 374-2583		
Upton Cty Sheriff's Department	Upton County (Rankin)	(432) 693-2422		
Ward Cty Sheriff's Department	Ward County (Monaha	(432) 943-3254		
Yoakum City Sheriff's Department	Yoakum Co. (Denever	(806) 456-2377		
Law Enforcement - Police				
Abernathy City Police	Abernathy, TX	(806) 298-2545		
Andrews City Police	Andrews, TX	(432) 523-5675		
Artesia City Police	Artesia, NM	(505) 746-2704		
Brownfield City Police	Brownfield, TX	(806) 637-2544		
Carlsbad City Police	Carlsbad, NM	(505) 885-2111		
Clayton City Police	Clayton, NM	(505) 374-2504		
Denver City Police	Denver City, TX	(806) 592-3516		
Eunice City Police	Eunice, NM	(505) 394-2112		
Hobbs City Police	Hobbs, NM	393-2677		
Jal City Police	Jal, NM	(505) 395-2501		
Jayton City Police	Jayton, TX	(806) 237-3801		
Lamesa City Police	Lamesa, TX	(806) 872-2121		
Levelland City Police	Levelland, TX	(806) 894-6164		
Lovington City Police	Lovington, NM	(505) 396-2811		
Midland City Police	Midland, TX	(432) 685-7113		
Monahans City Police	Monahans, TX	(432) 943-3254		
Odessa City Police	Odessa, TX	(432) 335-3378		
Seminole City Police	Seminole, TX	(432) 758-9871		
Snyder City Police	Snyder, TX	(325) 573-2611		

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Sundown City Police	Sundown, TX	(806) 229-8241		
Law Enforcement - FBI				
FBI	Alburqueque, NM	(505) 224-2000		
FBI	Midland, TX	(432) 570-0255		
Law Enforcement - DPS				
NM State Police	Artesia, NM	(505) 746-2704		
NM State Police	Carlsbad, NM	(505) 885-3137		
NM State Police	Eunice, NM	(505) 392-5588		
NM State Police	Hobbs, NM	(505) 392-5588		
NM State Police	Clayton, NM	(505) 374-2473; 911		
TX Dept of Public Safety	Andrews, TX	(432) 524-1443		
TX Dept of Public Safety	Big Lake, TX	(325) 884-2301		
TX Dept of Public Safety	Brownfield, TX	(806) 637-2312		
TX Dept of Public Safety	Iraan, TX	(432) 639-3232		
TX Dept of Public Safety	Lamesa, TX	(806) 872-8675		
TX Dept of Public Safety	Levelland, TX	(806) 894-4385		
TX Dept of Public Safety	Lubbock, TX	(806) 747-4491		
TX Dept of Public Safety	Midland, TX	(432) 697-2211		
TX Dept of Public Safety	Monahans, TX	(432) 943-5857		
TX Dept of Public Safety	Odessa, TX	(432) 332-6100		
TX Dept of Public Safety	Ozona, TX	(325) 392-2621		
TX Dept of Public Safety	Pecos, TX	(432) 447-3533		
TX Dept of Public Safety	Seminole, TX	(432) 758-4041		
TX Dept of Public Safety	Snyder, TX	(325) 573-0113		
TX Dept of Public Safety	Terry County TX	(806) 637-8913		
TX Dept of Public Safety	Yoakum County TX	(806) 456-2377		
Firefighting & Rescue				
Abernathy	Abernathy, TX	(806) 298-2022		
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113		

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Andrews	Andrews, TX	523-3111		
Artesia	Artesia, NM	(505) 746-5051		
Big Lake	Big Lake, TX	(325) 884-3650		
Brownfield-Administrative & other calls	Brownfield, TX	(816) 637-4547		
Brownfield emergency only	Brownfield, TX	-911		
Carlsbad	Carlsbad, NM	(505) 885-3125		
Clayton	Clayton, NM	(505) 374-2435		
Cotton Center	Cotton Center, TX	(806) 879-2157		
Crane	Crane, TX	(432) 558-2361		
Del Rio	Del Rio, TX	(830) 774-8650		
Denver City	Denver City, TX	(806) 592-3516		
Eldorado	Eldorado, TX	(325) 853-2691		
Eunice	Eunice, NM	(505) 394-2111		
Garden City	Garden City, TX	(432) 354-2404		
Goldsmith	Goldsmith, TX	(432) 827-3445		
Hale Center	Hale Center, TX	(806) 839-2411		
Halfway	Halfway, TX			
Hobbs	Hobbs, NM	(505) 397-9308		
Jal	Jal, NM	(505) 395-2221		
Jayton	Jayton, TX	(806) 237-3801		
Kermit	Kermit, TX	(432) 586-3468		
Lamesa	Lamesa, TX	(806) 872-4352		
Levelland	Levelland, TX	(806) 894-3154		
Lovington	Lovington, NM	(505) 396-2359		
Maljamar	Maljamar, NM	(505) 676-4100		
McCamey	McCamey, TX	(432) 652-8232		
Midland	Midland, TX	(432) 685-7346		
Monahans	Monahans, TX	(432) 943-4343		
Nara Visa	Nara Visa, NM	(505) 461-3300		
Notrees	Notress, TX	(432) 827-3445		
Odessa	Odessa, TX	(432) 335-4659		
Ozona	Ozona, TX	(325) 392-2626		

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Pecos	Pecos, TX	(432) 445-2421		
Petersburg	Petersburg, TX	(806) 667-3461		
Plains	Plains, TX	(806) 456-8067		
Plainview	Plainview, TX	(806) 296-1170		
Rankin	Rankin, TX	(432) 693-2252		
San Angelo	San Angelo, TX	(325) 657-4355		
Sanderson	Sanderson, TX	(432) 345-2525		
Seminole	Seminole, TX	758-9871		
Smyer	Smyer, TX	(806) 234-3861		
Snyder	Snyder, TX	(325) 573-6215		
Sundown	Sundown, TX	911		
Tucumcari	Tucumcari, NM	911		
West Odessa	Odessa, TX	(432) 381-3033		
Ambulance				
Abernathy Ambulance	Abernathy, TX	(806) 298-2241		
Amistad/Rosebud	Amistad/Rosebud, NM	(505) 633-9113		
Andrews Ambulance	Andrews, TX	(432) 523-5675		
Artesia Ambulance	Artesia, NM	(505) 746-2701		
Big Lake Ambulance	Big Lake, TX	(325) 884-2423		
Big Spring Ambulance	Big Spring, TX	(432) 264-2550		
Brownfield Ambulance	Brownfield, TX	(806) 637-2511		
Carlsbad Ambulance	Carlsbad, NM	(505) 885-2111; 911		
Clayton, NM	Clayton, NM	(505) 374-2501		
Denver City Ambulance	Denver City, TX	(806) 592-3516		
Eldorado Ambulance	Eldorado, TX	(325) 853-3456		
Eunice Ambulance	Eunice, NM	(505) 394-3258		
Goldsmith Ambulance	Goldsmith, TX	(432) 827-3445		
Hobbs, NM	Hobbs, NM	(505) 397-9308		
Jal, NM	Jal, NM	(505) 395-2501		
Jayton Ambulance	Jayton, TX	(806) 237-3801		
Lamesa Ambulance	Lamesa, TX	(806) 872-3464		

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Levelland Ambulance	Levelland, TX	(806) 894-8855		
Lovington Ambulance	Lovington, NM	(505) 396-2811		
McCamey Hospital	McCamey, TX	(432) 652-8626		
Midland Ambulance	Midland, TX	(432) 685-7499		
Monahans Ambulance	Monahans, TX	3731		
Nara Visa, NM	Nara Visa, NM	(505) 461-3300		
Odessa Ambulance	Odessa, TX	(432) 335-3378		
Ozona Ambulance	Ozona, TX	(325) 392-2671		
Pecos Ambulance	Pecos, TX	(432) 445-4444		
Rankin Ambulance	Rankin, TX	(432) 693-2443		
San Angelo Ambulance	San Angelo, TX	(325) 657-4357		
Seminole Ambulance	Seminole, TX	758-9871		
Snyder Ambulance	Snyder, TX	(325) 573-1911		
Stanton Ambulance	Stanton, TX	(432) 756-2211		
Sundown Ambulance	Sundown, TX	911		
Tucumcari, NM	Tucumcari, NM	911		
Medical Air Ambulance Service				
AEROCARE - Methodist Hospital	Lubbock, TX	(800) 627-2376		
San Angelo Med-Vac Air Ambulance	San Angelo, TX	(800) 277-4354		
Southwest Air Ambulance Service	Stanford, TX	(800) 242-6199		
Southwest MediVac	Snyder, TX	(800) 242-6199		
Southwest MediVac	Hobbs, NM	(800) 242-6199		
Odessa Care Star	Odessa, TX	(888) 624-3571		
NWTH Medivac	Amarillo, TX	(800) 692-1331		

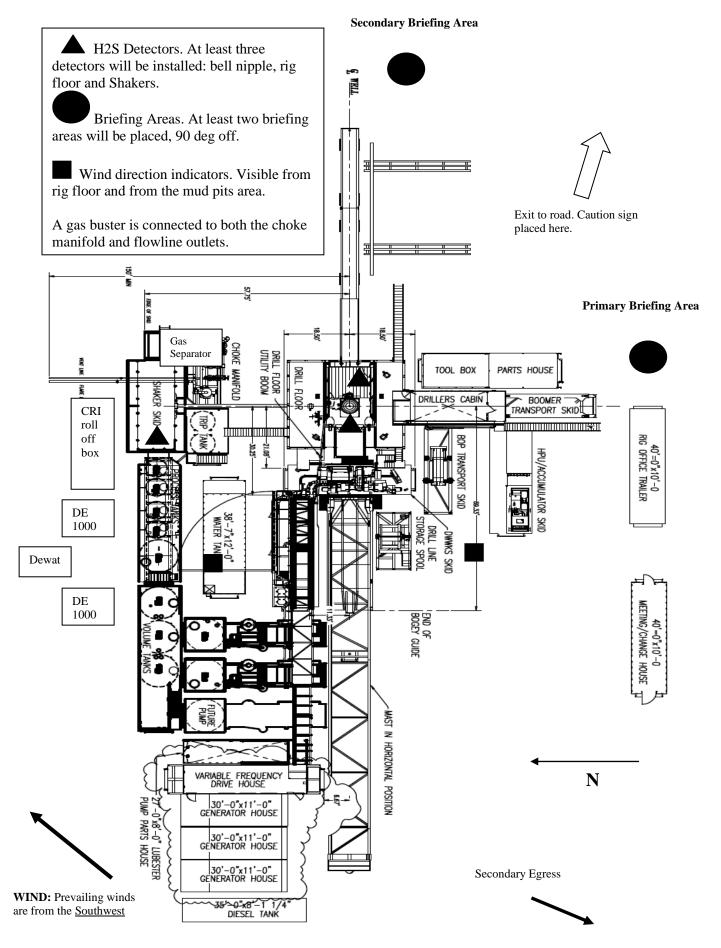


Permian Drilling Hydrogen Sulfide Drilling Operations Plan Maltese 5_8 Fed Com 1H

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.



OXY

PRD NM DIRECTIONAL PLANS (NAD 1983) Maltese 5_8 Maltese 5_8 Fed Com 1H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

29 January, 2020

Oxy Inc. Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	HOPSPP ENGINEERING DESIGNSLocal Co-ordinate Reference: TVD Reference:Well Maltese 5_8 Fed Com 1HPRD NM DIRECTIONAL PLANS (NAD 1983)MD Reference: North Reference:RKB=26.5' @ 3478.80ftMaltese 5_8Fed Com 1HSurvey Calculation Method:Minimum CurvatureWellbore #1Permitting PlanKDKD						Н			
Project	PRD NM	I DIRECTIO	NAL PLANS (NAD 1983)						
Map System: Geo Datum: Map Zone:	North Am	Plane 1983 ierican Datun ico Eastern 2			System Da	tum:		ean Sea Level sing geodetic so	cale factor	
Site	Maltese	5_8								
Site Position: From: Position Uncertaint	Мар у:		North Easti .00 ft Slot I	•		886.72 usft	Latitude: Longitude: Grid Conve	rgence:	1	32° 15' 11.141127 N 03° 23' 36.488455 W 0.50 °
Well	Maltese	5_8 Fed Cor	n 1H							
Well Position	+N/-S +E/-W		0.00 ft E	orthing: asting:		457,080.97 831,886.72	usft Lo	titude: ngitude:	1	32° 15' 11.141127 N 03° 23' 36.488455 W
Position Uncertaint	У		1.00 ft W	ellhead Elev	ation:		Gr	ound Level:		3,452.30 ft
Wellbore	Wellbor	re #1								
Magnetics	Mod	lel Name	Samp	le Date	Declina (°)	tion		Angle °)		Strength ıT)
	H	HDGM_FILE	1	2/31/2019		6.62		59.87	47,8	34.2000000
Design	Permitti	ng Plan								
Audit Notes:										
Version:			Phas	se:	PROTOTYPE	Tie	On Depth:		0.00	
Vertical Section:		D	epth From (T	VD)	+N/-S		/-W		ection	
			(ft)		(ft) 0.00		i t) 00		(°) 34.95	
			0.00		0.00	0.0	00		54.95	
Plan Survey Tool P Depth From (ft) 1 0.00	Depth (ft)	To Survey	1/29/2020 / (Wellbore) ting Plan (Wel	lhore #1)	Tool Name B001Mb_MW	D+HRGM	Remarks			
1 0.00	10,001				OWSG MWD					
Plan Sections										
Measured Depth Incli	nation °)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
(11)							0.00	0.00	0.00	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			1
0.00 3,865.00	0.00 0.00	0.00	3,865.00	0.00	0.00	0.00	0.00	0.00	0.00	
0.00 3,865.00 4,465.00	0.00 0.00 12.00	0.00 283.09	3,865.00 4,460.62	0.00 14.18	0.00 -60.98	0.00 2.00	0.00 2.00	0.00 0.00	0.00 283.09	
0.00 3,865.00	0.00 0.00	0.00	3,865.00	0.00	0.00	0.00	0.00	0.00 0.00 0.00	0.00	

1/29/2020 8:22:10AM

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Database:	HOPSPP	Local Co-ordinate Reference:	Well Maltese 5_8 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3478.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3478.80ft
Site:	Maltese 5_8	North Reference:	Grid
Well:	Maltese 5_8 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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
700.00 800.00	0.00 0.00	0.00 0.00	700.00 800.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
900.00	0.00	0.00	800.00 900.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,000.00	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	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00 2,400.00	0.00 0.00	0.00 0.00	2,300.00 2,400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00
2,600.00 2,700.00	0.00 0.00	0.00 0.00	2,600.00 2,700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00 0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
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 3.800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00 3,865.00	0.00 0.00	0.00 0.00	3,800.00 3,865.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
3,900.00 4,000.00	0.70 2.70	283.09 283.09	3,900.00 3,999.95	0.05 0.72	-0.21 -3.10	-0.03 -0.45	2.00 2.00	2.00 2.00	0.00 0.00
4,000.00	4.70	283.09	4,099.74	2.18	-9.38	-1.36	2.00	2.00	0.00
4,200.00	6.70	283.09	4,199.24	4.43	-19.06	-2.77	2.00	2.00	0.00
4,300.00	8.70	283.09	4,298.33	7.47	-32.11	-4.67	2.00	2.00	0.00
4,400.00	10.70	283.09	4,396.90	11.28	-48.52	-7.05	2.00	2.00	0.00
4,465.00	12.00	283.09	4,460.62	14.18	-60.98	-8.86	2.00	2.00	0.00
4,500.00	12.00	283.09	4,494.86	15.83	-68.06	-9.89	0.00	0.00	0.00
4,600.00	12.00	283.09	4,592.67	20.54	-88.31	-12.83	0.00	0.00	0.00
4,700.00	12.00	283.09	4,690.49	25.24	-108.57	-15.78	0.00	0.00	0.00
4,800.00	12.00	283.09	4,788.30	29.95	-128.82	-18.72	0.00	0.00	0.00
4,900.00	12.00	283.09	4,886.12	34.66	-149.07	-21.66	0.00	0.00	0.00
5,000.00 5,100.00	12.00 12.00	283.09 283.09	4,983.93 5,081.75	39.37 44.08	-169.32 -189.57	-24.61 -27.55	0.00 0.00	0.00 0.00	0.00 0.00
5,100.00	12.00	203.09	5,001.75	44.00	-109.07	-21.00	0.00	0.00	0.00

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COMPASS 5000.15 Build 91D

Database:	HOPSPP	Local Co-ordinate Reference:	Well Maltese 5 8 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3478.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3478.80ft
Site:	Maltese 5_8	North Reference:	Grid
Well:	Maltese 5_8 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
5,200.00	12.00	283.09	5,179.56	48.79	-209.82	-30.49	0.00	0.00	0.00
5,300.00	12.00	283.09	5,277.38	53.50	-230.07	-33.44	0.00	0.00	0.00
5,400.00	12.00	283.09	5.375.19	58.21	-250.32	-36.38	0.00	0.00	0.00
5,500.00	12.00	283.09	5,473.01	62.91	-270.57	-39.32	0.00	0.00	0.00
5,600.00	12.00	283.09	5,570.82	67.62	-290.82	-42.27	0.00	0.00	0.00
5,700.00	12.00	283.09	5,668.64	72.33	-311.07	-45.21	0.00	0.00	0.00
5,800.00	12.00	283.09	5,766.45	77.04	-331.33	-48.15	0.00	0.00	0.00
5,900.00	12.00	283.09	5,864.27	81.75	-351.58	-51.09	0.00	0.00	0.00
6,000.00	12.00	283.09	5,962.08	86.46	-371.83	-54.04	0.00	0.00	0.00
6,100.00	12.00	283.09	6,059.89	91.17	-392.08	-56.98	0.00	0.00	0.00
6,200.00	12.00	283.09	6,157.71	95.88	-412.33	-59.92	0.00	0.00	0.00
6,300.00	12.00	283.09	6,255.52	100.58	-432.58	-62.87	0.00	0.00	0.00
6,400.00	12.00	283.09	6,353.34	105.29	-452.83	-65.81	0.00	0.00	0.00
6,500.00	12.00	283.09	6,451.15	110.00	-473.08	-68.75	0.00	0.00	0.00
6,600.00	12.00	283.09	6,548.97	114.71	-493.33	-71.70	0.00	0.00	0.00
6,700.00	12.00	283.09	6,646.78	119.42	-513.58	-74.64	0.00	0.00	0.00
6,800.00	12.00	283.09	6.744.60	124.13	-533.83	-77.58	0.00	0.00	0.00
6,900.00 6,900.00	12.00	283.09	6,842.41	124.13	-5554.09	-77.56	0.00	0.00	0.00
7,000.00	12.00	283.09	6,940.23	133.55	-574.34	-80.55	0.00	0.00	0.00
7,100.00	12.00	283.09	7,038.04	138.26	-594.59	-86.41	0.00	0.00	0.00
7,200.00	12.00	283.09	7,135.86	142.96	-614.84	-89.35	0.00	0.00	0.00
7.300.00					-635.09				
7,300.00	12.00 12.00	283.09 283.09	7,233.67 7.331.49	147.67 152.38	-635.09 -655.34	-92.30 -95.24	0.00 0.00	0.00 0.00	0.00 0.00
7,500.00	12.00	283.09	7,429.30	157.09	-675.59	-98.18	0.00	0.00	0.00
7,600.00	12.00	283.09	7,527.12	161.80	-695.84	-101.13	0.00	0.00	0.00
7,700.00	12.00	283.09	7,624.93	166.51	-716.09	-104.07	0.00	0.00	0.00
7,800.00	12.00	283.09	7,722.75	171.22	-736.34	-107.01	0.00	0.00	0.00
7,800.00	12.00	283.09	7,820.56	175.93	-756.59	-107.01	0.00	0.00	0.00
8,000.00	12.00	283.09	7,918.38	180.63	-776.85	-112.90	0.00	0.00	0.00
8,100.00	12.00	283.09	8,016.19	185.34	-797.10	-115.84	0.00	0.00	0.00
8,200.00	12.00	283.09	8,114.00	190.05	-817.35	-118.78	0.00	0.00	0.00
8,300.00	12.00	283.09	8,211.82	194.76	-837.60	-121.73	0.00	0.00	0.00
8,300.00	12.00	283.09	8,309.63	194.70	-857.85	-121.73	0.00	0.00	0.00
8,500.00	12.00	283.09	8,407.45	204.18	-878.10	-127.61	0.00	0.00	0.00
8,546.27	12.00	283.09	8,452.71	206.36	-887.47	-128.98	0.00	0.00	0.00
8,600.00	11.92	256.95	8,505.31	206.37	-898.33	-128.05	10.00	-0.14	-48.65
8,700.00	17.04	221.52	8,602.28	193.03	-918.15	-113.05	10.00	5.12	-35.43
8,800.00	25.21	205.19	8,695.56	162.72	-936.97	-81.22	10.00	8.17	-35.43
8,900.00	34.32	196.79	8,782.31	116.34	-954.23	-33.53	10.00	9.11	-8.40
9,000.00	43.79	190.79	8,859.90	55.30	-969.38	28.59	10.00	9.46	-5.16
9,100.00	53.41	188.01	8,925.97	-18.53	-981.98	103.23	10.00	9.63	-3.62
9,200.00					-991.64				
9,200.00 9,300.00	63.12 72.88	185.20 182.84	8,978.51 9,015.92	-102.92 -195.29	-991.64 -998.07	188.14 280.72	10.00 10.00	9.71 9.76	-2.81 -2.36
9,300.00 9,400.00	82.67	180.72	9.037.07	-292.85	-1,001.06	378.18	10.00	9.78 9.78	-2.30
9,466.46	89.17	179.37	9,037.07	-359.11	-1,001.00	444.19	10.00	9.79	-2.12
9,500.00	89.17	179.37	9,041.80	-392.64	-1,000.74	444.19	0.00	0.00	-2.03
9,600.00	89.17	179.37	9.043.72	-492.63	-999.64	577.08	0.00	0.00	0.00
9,600.00 9,700.00	89.17 89.17	179.37 179.37	9,043.72 9,045.16	-492.63 -592.61	-999.64 -998.53	577.08 676.60	0.00	0.00	0.00
9,700.00 9,800.00	89.17	179.37	9,045.16 9,046.60	-692.59	-998.55	776.11	0.00	0.00	0.00
9,800.00 9,900.00	89.17	179.37	9,048.00 9,048.04	-092.59 -792.58	-997.43	875.63	0.00	0.00	0.00
9,900.00	89.17	179.37	9,048.04 9,049.48	-892.56	-995.22	975.14	0.00	0.00	0.00
			9,050.92						
10,100.00 10,200.00	89.17 89.17	179.37 179.37	9,050.92 9,052.36	-992.55 -1,092.53	-994.12 -993.01	1,074.66 1,174.17	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00	89.17	179.37	9,052.30	-1,192.55	-993.01	1,174.17	0.00	0.00	0.00

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COMPASS 5000.15 Build 91D

Detabases		Level On and sets Defenses	Well Melhans F. O. Farl Orm 411
Database:	HOPSPP	Local Co-ordinate Reference:	Well Maltese 5_8 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3478.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3478.80ft
Site:	Maltese 5_8	North Reference:	Grid
Well:	Maltese 5_8 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
10,400.00	89.17	179.37	9,055.24	-1,292.50	-990.81	1,373.20	0.00	0.00	0.00
10,500.00	89.17	179.37	9,056.68	-1,392.48	-989.70	1,472.72	0.00	0.00	0.00
	aa 17								
10,600.00	89.17	179.37	9,058.12	-1,492.46	-988.60	1,572.23	0.00	0.00	0.00
10,700.00	89.17	179.37	9,059.56	-1,592.45	-987.49	1,671.75	0.00	0.00	0.00
10,800.00	89.17	179.37	9,061.00	-1,692.43	-986.39	1,771.26	0.00	0.00	0.00
10,900.00	89.17	179.37	9,062.44	-1,792.41	-985.29	1,870.78	0.00	0.00	0.00
11,000.00	89.17	179.37	9,063.88	-1,892.40	-984.18	1,970.29	0.00	0.00	0.00
11,100.00	89.17	179.37	9,065.32	-1.992.38	-983.08	2,069.81	0.00	0.00	0.00
11,200.00	89.17	179.37	9,066.76	-2,092.36	-981.97	2,009.01	0.00	0.00	0.00
		179.37	,						
11,300.00	89.17		9,068.20	-2,192.35	-980.87	2,268.84	0.00	0.00	0.00
11,400.00	89.17	179.37	9,069.64	-2,292.33	-979.77	2,368.35	0.00	0.00	0.00
11,500.00	89.17	179.37	9,071.08	-2,392.31	-978.66	2,467.87	0.00	0.00	0.00
11,600.00	89.17	179.37	9,072.52	-2,492.30	-977.56	2,567.38	0.00	0.00	0.00
11,700.00	89.17	179.37	9,073.96	-2,592.28	-976.46	2,666.90	0.00	0.00	0.00
11,800.00	89.17	179.37	9,075.40	-2,692.27	-975.35	2,766.41	0.00	0.00	0.00
11,900.00	89.17	179.37	9,076.84	-2,792.25	-974.25	2,865.93	0.00	0.00	0.00
12,000.00	89.17	179.37	9,078.28 9,078.28	-2,792.25	-974.25 -973.14	2,005.93	0.00	0.00	0.00
12,100.00	89.17	179.37	9,079.72	-2,992.22	-972.04	3,064.96	0.00	0.00	0.00
12,200.00	89.17	179.37	9,081.16	-3,092.20	-970.94	3,164.47	0.00	0.00	0.00
12,300.00	89.17	179.37	9,082.60	-3,192.18	-969.83	3,263.99	0.00	0.00	0.00
12,400.00	89.17	179.37	9,084.04	-3,292,17	-968.73	3,363.50	0.00	0.00	0.00
12,500.00	89.17	179.37	9,085.48	-3,392.15	-967.62	3,463.02	0.00	0.00	0.00
12,600.00	89.17	179.37	9,086.92	-3,492.13	-966.52	3,562.53	0.00	0.00	0.00
12,700.00	89.17	179.37	9,088.36	-3,592.12	-965.42	3,662.05	0.00	0.00	0.00
12,800.00	89.17	179.37	9,089.80	-3,692.10	-964.31	3,761.56	0.00	0.00	0.00
12,900.00	89.17	179.37	9,091.24	-3,792.08	-963.21	3,861.08	0.00	0.00	0.00
13,000.00	89.17	179.37	9,092.68	-3,892.07	-962.11	3,960.59	0.00	0.00	0.00
13,100.00	89.17	179.37	9,094.12	-3,992.05	-961.00	4,060.11	0.00	0.00	0.00
13,200.00	89.17	179.37	9,094.12	-3,992.03	-961.00	4,060.11 4,159.62	0.00	0.00	0.00
			,	,					
13,300.00	89.17	179.37	9,097.00	-4,192.02	-958.79	4,259.14	0.00	0.00	0.00
13,400.00	89.17	179.37	9,098.44	-4,292.00	-957.69	4,358.65	0.00	0.00	0.00
13,500.00	89.17	179.37	9,099.88	-4,391.99	-956.59	4,458.17	0.00	0.00	0.00
13,600.00	89.17	179.37	9,101.32	-4,491.97	-955.48	4,557.68	0.00	0.00	0.00
13,700.00	89.17	179.37	9,102.76	-4,591.95	-954.38	4,657.20	0.00	0.00	0.00
13,800.00	89.17	179.37	9,104.20	-4,691.94	-953.27	4,756.71	0.00	0.00	0.00
13,900.00	89.17	179.37	9,105.64	-4,791.92	-952.17	4,856.23	0.00	0.00	0.00
14,000.00	89.17	179.37	9,105.04 9,107.08	-4,791.92 -4,891.90	-952.17 -951.07	4,050.25 4,955.74	0.00	0.00	0.00
14,100.00	89.17	179.37	9,108.52	-4,991.89	-949.96	5,055.26	0.00	0.00	0.00
14,200.00	89.17	179.37	9,109.96	-5,091.87	-948.86	5,154.77	0.00	0.00	0.00
14,300.00	89.17	179.37	9,111.40	-5,191.85	-947.76	5,254.29	0.00	0.00	0.00
14,400.00	89.17	179.37	9,112.84	-5,291.84	-946.65	5,353.80	0.00	0.00	0.00
14,500.00	89.17	179.37	9,114.28	-5,391.82	-945.55	5,453.32	0.00	0.00	0.00
14,600.00	89.17	179.37	9,115.72	-5,491.80	-944.44	5,552.83	0.00	0.00	0.00
14,700.00	89.17	179.37	9,117.16	-5,591.79	-943.34	5,652.35	0.00	0.00	0.00
14,800.00	89.17	179.37	9,118.60	-5,691.77	-942.24	5,751.86	0.00	0.00	0.00
14,900.00	89.17	179.37	9,120.04	-5,791.76	-941.13	5,851.38	0.00	0.00	0.00
15,000.00	89.17	179.37	9,121.48	-5,891.74	-940.03	5,950.89	0.00	0.00	0.00
15,100.00	89.17	179.37	9,122.92	-5,991.72	-938.92	6,050.41	0.00	0.00	0.00
15,200.00	89.17	179.37	9,122.92 9,124.36	-6,091.72	-936.92 -937.82	6,149.92	0.00	0.00	0.00
15,300.00	89.17	179.37	9,125.80	-6,191.69	-936.72	6,249.44	0.00	0.00	0.00
15,400.00	89.17	179.37	9,127.24	-6,291.67	-935.61	6,348.95	0.00	0.00	0.00
15,500.00	89.17	179.37	9,128.68	-6,391.66	-934.51	6,448.47	0.00	0.00	0.00
15,600.00	89.17	179.37	9,130.12	-6,491.64	-933.41	6,547.98	0.00	0.00	0.00
	00.17	110.01	0,100.12	0,-01.0-	555.41	0,0-11.00	0.00	0.00	0.00

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COMPASS 5000.15 Build 91D

Database:	HOPSPP	Local Co-ordinate Reference:	Well Maltese 5_8 Fed Com 1H
Company:	ENGINEERING DESIGNS	TVD Reference:	RKB=26.5' @ 3478.80ft
Project:	PRD NM DIRECTIONAL PLANS (NAD 1983)	MD Reference:	RKB=26.5' @ 3478.80ft
Site:	Maltese 5_8	North Reference:	Grid
Well:	Maltese 5_8 Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permitting Plan		

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)
15,800.00 15,900.00 16,000.00	89.17 89.17 80.17	179.37 179.37 170.37	9,133.00 9,134.44 0,135.88	-6,691.61 -6,791.59 6 801 57	-931.20 -930.09	6,747.01 6,846.53	0.00 0.00	0.00 0.00	0.00 0.00
16,000.00 16,100.00 16,200.00 16,400.00 16,500.00 16,600.00 16,700.00 16,800.00 16,900.00 17,000.00 17,100.00 17,200.00	89.17 89.17 89.17 89.17 89.17 89.17 89.17 89.17 89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37 179.37	9,135.88 9,137.32 9,138.76 9,140.20 9,141.64 9,143.08 9,144.52 9,145.96 9,147.40 9,148.84 9,150.28 9,151.72 9,153.16	-6,891.57 -6,991.56 -7,091.54 -7,191.52 -7,291.51 -7,391.49 -7,491.48 -7,591.46 -7,691.44 -7,791.43 -7,891.41 -7,991.39 -8,091.38	-928.99 -927.89 -926.78 -925.68 -924.57 -923.47 -922.37 -921.26 -920.16 -919.05 -917.95 -916.85 -915.74	6,946.04 7,045.56 7,145.07 7,244.59 7,344.10 7,443.62 7,543.13 7,642.65 7,742.16 7,841.68 7,941.19 8,040.71 8,140.22	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 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 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
17,300.00 17,400.00 17,500.00 17,600.00	89.17 89.17 89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37 179.37 179.37	9,153.10 9,154.60 9,156.04 9,157.48 9,158.92 9,160.36	-8,191.36 -8,291.34 -8,391.33 -8,491.31	-913.74 -914.64 -913.54 -912.43 -911.33 -910.22	8,239.74 8,339.25 8,438.77 8,538.28	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
17,700.00 17,800.00 17,900.00 18,000.00 18,100.00	89.17 89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37 179.37	9,160.36 9,161.80 9,163.24 9,164.68 9,166.12	-8,591.29 -8,691.28 -8,791.26 -8,891.24 -8,991.23	-910.22 -909.12 -908.02 -906.91 -905.81	8,637.80 8,737.31 8,836.83 8,936.34 9,035.86	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
18,200.00 18,300.00 18,400.00 18,500.00 18,600.00	89.17 89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37 179.37	9,167.56 9,169.00 9,170.44 9,171.88 9,173.32	-9,091.21 -9,191.20 -9,291.18 -9,391.16 -9,491.15	-904.70 -903.60 -902.50 -901.39 -900.29	9,135.37 9,234.89 9,334.40 9,433.92 9,533.43	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
18,700.00 18,800.00 18,900.00 19,000.00	89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37 179.37	9,174.76 9,176.20 9,177.64 9,179.08	-9,591.13 -9,691.11 -9,791.10 -9,891.08	-899.19 -898.08 -896.98 -895.87	9,632.95 9,732.46 9,831.98 9,931.49	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,100.00 19,200.00 19,300.00 19,397.45	89.17 89.17 89.17 89.17	179.37 179.37 179.37 179.37	9,180.52 9,181.96 9,183.40 9,184.80	-9,991.06 -10,091.05 -10,191.03 -10,288.46	-894.77 -893.67 -892.56 -891.49	10,031.01 10,130.52 10,230.04 10,327.01	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Maltese 5_8 Fed - plan misses target - Point	0.00 center by 20		9,041.80 51.02ft MD	155.61 (8895.18 TVD	-1,007.27), 19.10 N, -9	457,236.58 76.16 E)	830,879.45	32° 15' 12.767945 N	103° 23' 48.201186
PBHL (Maltese 5_8 - plan hits target cer - Point	0.00 nter	0.00	9,184.80	-10,288.46	-891.49	446,792.47	830,995.23	32° 13' 29.416467 N	103° 23' 47.913724

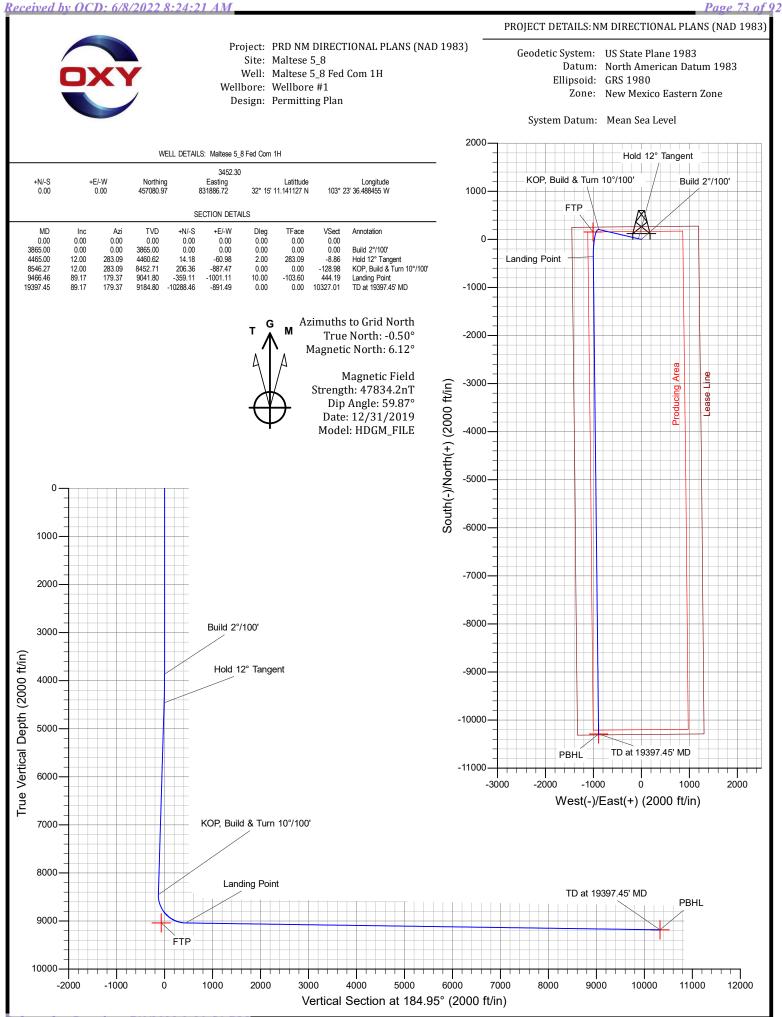
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Oxy Inc. Planning Report

	Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S	dinates +E/-W		
Plan Annotat	ions					
Design:	Permi	tting Plan				
Wellbore:	Wellb	Wellbore #1			•	
Well:	Malte	Maltese 5_8 Fed Com 1H			y Calculation Method:	Minimum Curvature
Site:	Malte	se 5_8		North	Reference:	Grid
Project:	PRD	NM DIRECTION	AL PLANS (NAD 198	3) MD R	eference:	RKB=26.5' @ 3478.80ft RKB=26.5' @ 3478.80ft
Company:	ENGI	NEERING DESIG	GNS		Reference:	
Database:	HOPS	SPP		Local	Co-ordinate Reference:	Well Maltese 5_8 Fed Com 1H

(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,865.00	3,865.00	0.00	0.00	Build 2°/100'	
4,465.00	4,460.62	14.18	-60.98	Hold 12° Tangent	
8,546.27	8,452.71	206.36	-887.47	KOP, Build & Turn 10°/100'	
9,466.46	9,041.80	-359.11	-1,001.11	Landing Point	
19,397.45	9,184.80	-10,288.46	-891.49	TD at 19397.45' MD	



1. Geologic Formations

TVD of target	9185'	Pilot Hole Depth	N/A
MD at TD:	19397'	Deepest Expected fresh water:	397'

Delaware Basin

Formation	TVD - RKB	Expected Fluids
Rustler	804	
Salado	1,167	Salt
Castile	3,462	Salt
Lamar/Delaware	5,304	Oil/Gas/Brine
Bell Canyon	5,352	Oil/Gas/Brine
Cherry Canyon	6,228	Oil/Gas/Brine
Brushy Canyon	7,612	Losses
Bone Spring	8,777	Oil/Gas

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

2. Casing Program

									Buoyant	Buoyant
Hala Cine (in)	Casing	Interval	Csg. Size	Weight	Grade	Com	SF	SF Burst	Body SF	Joint SF
Hole Size (in)	From (ft)	To (ft)	(in)	(lbs)	Grade	Conn.	Collapse	SF BUISt	Tension	Tension
17.5	0	854	13.375	54.5	J-55	BTC	1.125	1.2	1.4	1.4
12.25	0	5354	9.625	40	L-80	BTC	1.125	1.2	1.4	1.4
8.5	0	19397	5.5	20	P-110	DQX	1.125	1.2	1.4	1.4
			-					SF Values will	meet or Exceed	1

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h *Oxy requests the option to set casing shallower yet still below the salts if losses or hole conditions require this. Cement volumes may be adjusted if casing is set shallower and a DV tool may be run in case hole conditions merit pumping a second stage cement job to comply with permitted top of cement. If cement circulated to surface during first stage, we will drop a cancelation cone and not pump the second stage.

*Oxy requests the option to run production casing with DQX, SF TORQ, and/or DQW TORQ connections to accommodate hole conditions or drilling operations.

Annular Clearance Variance Request

As per the agreement reached in the Oxy/BLM face-to-face meeting on Feb 22, 2018, Oxy requests permission to allow deviation from the 0.422" annular clearance requirement from Onshore Order #2 under the following conditions:

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
	ŊŢ
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	11
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
	N
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Casing String	# Sks	Wt. (lb/gal)	Yld (ft3/sack)	H20 (gal/sk)	500# Comp. Strength (hours)	Slurry Description
Surface (Lead)	N/A	N/A	N/A	N/A	N/A	N/A
Surface (Tail)	904	14.8	1.33	6.365	5:26	Class C Cement, Accelerator
Intermediate (Lead)	1266	12.9	1.73	8.784	15:26	Pozzolan Cement, Retarder
Intermediate (Tail)	155	14.8	1.33	6.368	7:11	Class C Cement, Accelerator
Production 1st Stage (Lead)	160	13.2	1.38	6.692	17:50	Class H Cement, Retarder, Dispersant, Salt
Production 1st Stage (Tail)	1859	13.2	1.38	6.686	3:49	Class H Cement, Retarder, Dispersant, Salt
2nd Stage Production Lead Slurry to be pumped as Bradenhead Squeeze from surface, down the Production annulus.				lown the Production annulus.		
Production 2nd Stage (Tail)	1130	12.9	1.872	10.11	21:54	Class C Cement, Accelerator

3. Cementing Program

Casing String	Top (ft)	Bottom (ft)	% Excess
Surface (Lead)	N/A	N/A	N/A
Surface (Tail)	0	854	100%
Intermediate (Lead)	0	4854	50%
Intermediate (Tail)	4854	5354	20%
Production 1st Stage (Lead)	7862	8777	5%
Production 1st Stage (Tail)	8777	19397	5%
Production 2nd Stage (Tail)	0	7862	25%

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.

The summarized 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.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.

- a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 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.

Pilot Hole Cementing specs:

Pilot hole depth: N/A KOP: N/A

Plug	Plug	%	No.	Wt.	Yld	Water	Slurry Description and
top	Bottom	Excess	Sacks	lb/gal	ft3/sack	gal/sk	Cement Type
N/A							
N/A							

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:				
		3M	Annula	r	1	70% of working pressure				
12.25" Hole	12 5/07		Blind Ra	am	✓					
12.25 Hole	13-5/8"	13-3/8	13-3/8	13-3/8	13-3/8	214	Pipe Ra	m		250 mai / 2000 mai
		21/1	3M Double Ram		✓	250 psi / 3000 psi				
			Other*							
		3M	Annula	r	1	70% of working pressure				
8.5" Hole	13-5/8"		Blind Ra	am	✓					
8.5 Hole	8.5 Hole 15-5/8		Pipe Ram			250 mai / 2000 mai				
		3M	Double Ram		✓	250 psi / 3000 psi				
			Other*							

4. Pressure Control Equipment

*Specify if additional ram is utilized.

Oxy will utilize a 5M annular with a 10M BOPE stack. The BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 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.

On Ex greate	tion integrity test will be performed per Onshore Order #2. ploratory wells or on that portion of any well approved for a 5M BOPE system or r, a pressure integrity test of each casing shoe shall be performed. Will be tested in lance with Onshore Oil and Gas Order #2 III.B.1.i.
	ance is requested for the use of a flexible choke line from the BOP to Choke old. See attached for specs and hydrostatic test chart.
Υ	Are anchors required by manufacturer?
and co per Or require system that is	tibowl or a unionized multibowl wellhead system will be employed. The wellhead onnection to the BOPE will meet all API 6A requirements. The BOP will be tested ashore Order #2 after installation on the surface casing which will cover testing ements for a maximum of 30 days. If any seal subject to test pressure is broken the n must be tested. We will test the flange connection of the wellhead with a test port directly in the flange. We are proposing that we will run the wellhead through the prior to cementing surface casing as discussed with the BLM on October 8, 2015.
See at	tached 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. A separate sundry will be sent prior to spud that reflects the pad based break testing plan.

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

5. Mud Program

Depth		Trans a	Weight	X 7° °4	
From (ft)	To (ft)	Туре	(ppg)	Viscosity	Water Loss
0	854	Water-Based Mud	8.6-8.8	40-60	N/C
854	5354	Saturated Brine- Based Mud	9.8-10.0	35-45	N/C
5354	19397	Water-Based or Oil- Based Mud	8.0-9.6	38-50	N/C

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

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

6. Logging and Testing Procedures

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

Addi	tional logs planned	Interval
No	Resistivity	
No	Density	
No	CBL	
Yes	Mud log	ICP - TD
No	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4586 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 isolation.

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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H2S is present

Y H2S Plan attached

8. Other facets of operation

	Yes/No
 Will the well be drilled with a walking/skidding operation? If yes, describe. We plan to drill the three 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: 1895.7 bbls.

Attachments

- _x_ Directional Plan
- _x__ H2S Contingency Plan
- _x__ Flex III Attachments
- _x__ Spudder Rig Attachment
- _x__ Premium Connection Specs

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9. Company Personnel

Name	<u>Title</u>	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
William Turner	Drilling Engineer Supervisor	713-350-4951	661-817-4586
Simon Benavides	Drilling Superintendent	713-522-8652	281-684-6897
Diego Tellez	Drilling Manager	713-350-4602	713-303-4932

Received by	, OCD:	6/8/2022	8:24:21 AM	
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	E	Sta nergy, Minerals a	te of New Mez and Natural Res		ent	Subr Via I	nit Electronically E-permitting			
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505										
	Ν	ATURAL G	AS MANA	GEMENT P	LAN					
This Natural Gas Manag	ement Plan m	ust be submitted w	with each Applica	tion for Permit to I	Drill (APD) for a	a new of	r recompleted wel			
			<u>1 – Plan D</u> ffective May 25.							
I. Operator: OXY US	A INC.		OGRID: _16	696	Date	:_0_6/	0 7/ 2 2			
II. Type: 🗹 Original 🗆] Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D((6)(b) NMAC 🗆	Other.				
If Other, please describe	:									
III. Well(s): Provide the be recompleted from a since the second secon					wells proposed t	to be dri	lled or proposed			
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Р	Anticipated roduced Water BBL/D			
SEE ATTACHED PAGE										
IV. Central Delivery Po V. Anticipated Schedul proposed to be recomple	e: Provide the	e following informa	ation for each new				7.9(D)(1) NMAC			
Well Name API Spud Date			TD Reached Date	1		Initial FlowDateBack Date				
SEE ATTACHED PAGE										
VI. Separation Equipm	ent: 🗹 Attac	h a complete descri	intion of how On			ant to or	timiza ana anatur			

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

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

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

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

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

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

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

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

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

Section 4 - Notices

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

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature: Roni Mathew
Printed Name: Roni Mathew
Title: Regulatory Advisor
E-mail Address: roni_mathew@oxy.com
Date: 06/7/2022
Phone: 713-215-7827
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
(Only applicable when submitted as a standalone form) Approved By:
Approved By:
Approved By: Title:
Approved By: Title: Approval Date:
Approved By: Title: Approval Date:
Approved By: Title: Approval Date:

Released to Imaging: 7/6/2022 3:20:51 PM

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
MALTESE 5_8 FED COM 1H	PENDING	Lot 3-5-24S-35E	265 FNL 1446 FWL	1150 30-02	5-50312 2,650	3900
MALTESE 5_8 FED COM 2H	PENDING	Lot 3-5-24S-35E	265 FNL 1481 FWL	1150	2,650	3900
MALTESE 5_8 FED COM 3H	PENDING	Lot 3-5-24S-35E	265 FNL 1516 FWL	1150	2,650	3900
MALTESE 5_8 FED COM 4H	PENDING	Lot 2-5-24S-35E	490 FNL 1445 FEL	1150	2,650	3900
MALTESE 5_8 FED COM 5H	PENDING	Lot 2-5-24S-35E	490 FNL 1410 FEL	1150	2,650	3900
MALTESE 5_8 FED COM 6H	PENDING	Lot 2-5-24S-35E	490 FNL 1375 FEL	1150	2,650	3900
MALTESE 5_8 FED COM 11H	PENDING	Lot 4-5-24S-35E	613 FNL 768 FWL	1270	2,450	8300
MALTESE 5_8 FED COM 12H	PENDING	Lot 4-5-24S-35E	592 FNL 796 FWL	1270	2,450	8300
MALTESE 5_8 FED COM 13H	PENDING	Lot 2-5-24S-35E	200 FNL 2225 FEL	1270	2,450	8300
MALTESE 5_8 FED COM 14H	PENDING	Lot 2-5-24S-35E	200 FNL 2190 FEL	1270	2,450	8300
MALTESE 5_8 FED COM 31H	PENDING	Lot 3-5-24S-35E	475 FNL 1475 FWL	1750	2600	4600
MALTESE 5_8 FED COM 32H	PENDING	Lot 1-5-24S-35E	180 FNL 925 FEL	1750	2600	4600
MALTESE 5_8 FED COM 33H	PENDING	Lot 1-5-24S-35E	180 FNL 860 FEL	1750	2600	4600
MALTESE 5_8 FED COM 34H	PENDING	Lot 3-5-24S-35E	475 FNL 1445 FWL	1750	2600	4600
MALTESE 5_8 FED COM 35H	PENDING	Lot 3-5-24S-35E	475 FNL 1510 FWL	1750	2600	4600
MALTESE 5_8 FED COM 36H	PENDING	Lot 3-5-24S-35E	475 FNL 1545 FWL	1750	2600	4600
MALTESE 5_8 FED COM 37H	PENDING	Lot 1-5-24S-35E	180 FNL 895 FEL	1750	2600	4600
MALTESE 5_8 FED COM 38H	PENDING	Lot 1-5-24S-35E	180 FNL 825 FEL	1750	2600	4600

V. Anticipated Schedule

Well Name	ΑΡΙ	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
MALTESE 5_8 FED COM 1H	PENDING	TBD	TBD 30-(125-50312 TBD	TBD	TBD
MALTESE 5_8 FED COM 2H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 3H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 4H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 5H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 6H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 11H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 31H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 32H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 33H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 34H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 35H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 36H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 37H	PENDING	TBD	TBD	TBD	TBD	TBD
MALTESE 5_8 FED COM 38H	PENDING	TBD	TBD	TBD	TBD	TBD

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 Targa Resources ("Targa") and is connected to Targa low/high pressure gathering system located in Lea County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Targa a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Targa have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the Eunice Processing Plant located in Sec. 3, Twn. 22S, Rng. 37E, Lea 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 Targa 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

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

Compressed Natural Gas – On lease

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

NGL Removal – On lease

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

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	114891
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	7/6/2022
pkautz	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	7/6/2022
pkautz	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	7/6/2022
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	7/6/2022

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CONDITIONS

Action 114891