Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. NMNM45236 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. ✓ DRILL REENTER 1a. Type of work: NMNM139924/STERLING SILVER 1b. Type of Well: ✓ Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone ✓ Multiple Zone STERLING SILVER MDP1 33 4 FED CO 22H 2. Name of Operator 9. API Well No. 30-015-56658 **OXY USA INCORPORATED** 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory P.O. BOX 1002, TUPMAN, CA 93276-1002 (661) 763-6046 INGLE WELLS/BONE SPRING 4. Location of Well (Report location clearly and in accordance with any State requirements.\*) 11. Sec., T. R. M. or Blk. and Survey or Area SEC 28/T23S/R31E/NMP At surface SESW / 736 FSL / 1710 FWL / LAT 32.270202 / LONG -103.785762 At proposed prod. zone SWSW / 20 FSL / 1220 FWL / LAT 32.239172 / LONG -103.787374 14. Distance in miles and direction from nearest town or post office\* 12. County or Parish 13 State **EDDY** NM 19 miles 15. Distance from proposed\* 16. No of acres in lease 17. Spacing Unit dedicated to this well 736 feet location to nearest property or lease line, ft. 641.0 (Also to nearest drig. unit line, if any) 18. Distance from proposed location\* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, 30 feet 8738 feet / 19547 feet FED: ESB000226 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start\* 23. Estimated duration 3373 feet 04/22/2024 45 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date RONI MATHEW / Ph: (713) 366-5716 (Electronic Submission) 08/22/2023 Title **REGULATORY SPECIALIST** Approved by (Signature) Date Name (Printed/Typed) (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 04/03/2025 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

APPROVED WITH CONDITIONS
Approval Date: 04/03/2025

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency

of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

\*(Instructions on page 2)

#### 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.

(Form 3160-3, page 2)

# **Additional Operator Remarks**

# **Location of Well**

0. SHL: SESW / 736 FSL / 1710 FWL / TWSP: 23S / RANGE: 31E / SECTION: 28 / LAT: 32.270202 / LONG: -103.785762 ( TVD: 0 feet, MD: 0 feet )

PPP: NWNW / 100 FNL / 1220 FWL / TWSP: 23S / RANGE: 31E / SECTION: 33 / LAT: 32.267905 / LONG: -103.7873433 ( TVD: 8721 feet, MD: 9094 feet )

BHL: SWSW / 20 FSL / 1220 FWL / TWSP: 24S / RANGE: 31E / SECTION: 4 / LAT: 32.239172 / LONG: -103.787374 ( TVD: 8738 feet, MD: 19547 feet )

# **BLM Point of Contact**

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

Email: TCMOLINA@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.

<u>C-10</u>		9/2025 9:10		State of New Mexico Energy, Minerals & Natural Resources Department							Revised July 9, 2024
Submit Electronically				OIL CONSERVATION DIVISION						✓ Initial Subr	
Via OC	D Permitting								Submittal		
									Type:	☐ Amended	
					WELLLOCA	TION INFOR	MATION			□ As Drille	-d
ADINI			D 10 1		WELL LOCA						
API Nu	ımber 15- <u>5665</u>	58	Pool Code <b>33740</b>			Pool Name	NGLE V	VELLS; E	BONE S	PRING	
	y Code	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	ame STE	RLING SIL	VER MC	P1 33_	4 FED C	ОМ	Well Number 22H	er
OGRII 1669			Operator N	ame OXY	USA INC					Ground Level 3373'	el Elevation
Surface	Owner: 🗆 S	State □ Fee □	] Tribal 🗷 Fed	leral		Mineral	Owner:	State ☐ Fee [	🗆 Tribal 🗷 1	Federal	
					Ç	fans I anation					
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from	F/W	Latitude	Т	ongitude	County
N	28	23S	31E	Lot	736 FSL		) FWL	32.2702		03.78576171	EDDY
	20	230	JIL					02.2702	0220	03.70370171	LDD1
UL	Section	Township	Range	Lot	Ft. from N/S	m Hole Locati Ft. from		Latitude	1.	ongitude	County
M	4	24S	31E	Lot	20 FSL		) FWL	32.2391		03.7837378	EDDY
		240	JIL		20102	122	3 1 VVL	02.200		00.7007070	LDD1
	ted Acres	Infill or Def	ining Well	Defining	Defining Well API Overlapping Spacing Unit			g Unit (Y/N)	Consolidati	ion Code	
Order l	Numbers.	•				Well set	oacks are un	der Common (	Ownership: [	□Yes □No	
					IZ: -1-	Off D-:-+ (I/O	<b>D</b> )				
UL	Section	Township	Range	Lot	Ft. from N/S	Off Point (KO Ft. from		Latitude	I.	ongitude	County
M	28	23S	31E	200	300 FSL		FWL	32.2690		03.78734503	EDDY
		200	0.2			Take Point (FT					2001
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from		Latitude	L	ongitude	County
D	33	23S	31E		100 FNL		FWL	32.2679		03.78734330	EDDY
			0.2		Last 7	Take Point (LT	'P)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from		Latitude	L	ongitude	County
М	4	24S	31E		100 FSL	1220	) FWL	32.2393		03.78737306	EDDY
Unitize	d Area or Ar	ea of Uniform	Interest	Spacing	Unit Type 🗹 Hor	rizontal 🗆 Vert	ical	Groun	nd Floor Elev	vation:	
				ı				l			
OPERA	ATOR CERT	TFICATIONS				SURVEYO	R CERTIFI	CATIONS			
my knov organize includin location interest,	vledge and beli ation either ow g the proposed pursuant to a	ief, and, if the weins a working inte I bottom hole loca contract with an ary pooling agree	ll is a vertical or crest or unleased ution or has a rig owner of a work	directional v mineral inter tht to drill thi ing interest o	rest in the land	surveys made my belief.	e by me or und  18 SURVEYOR  I hereby certify to shown on this pl notes of actual s under my superv		on, and that th		m field notes of actual d correct to the best of
consent in each interval	of at least one tract (in the tan will be located	lessee or owner o	of a working inte ation) in which a ompulsory poolin	rest or unlea ny part of the	has received the sed mineral interest e well's completed the division.		Date of Survey	Show y: JULY 10, 2023 al of Professional Survey	/or		

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

Signature an

Certificate N

**RONI MATHEW** 

roni\_mathew@oxy.com

Date

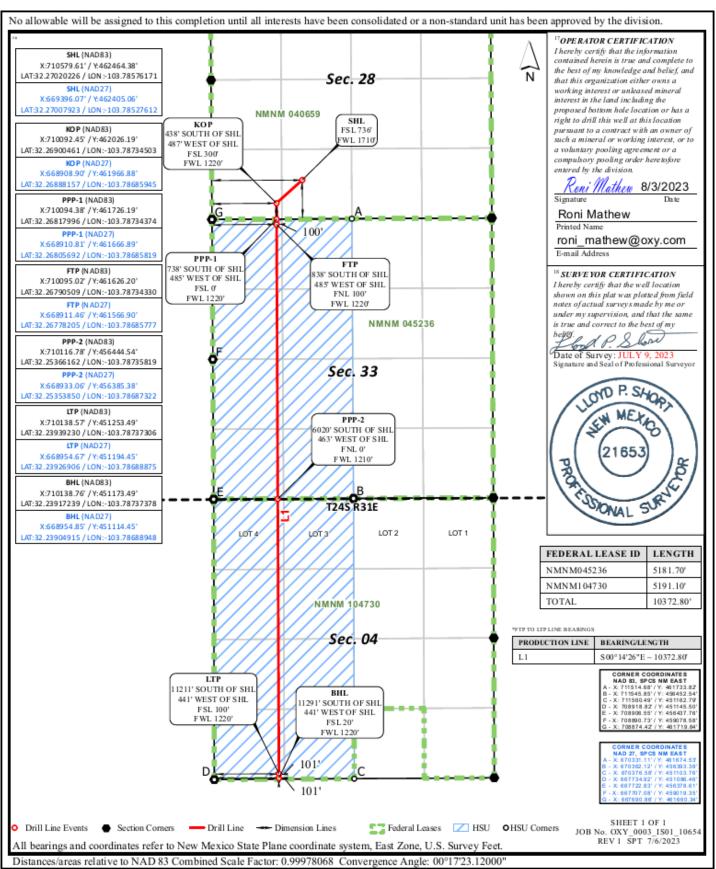
Signature

Printed Name

Email Address

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



# State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

# NATURAL GAS MANAGEMENT PLAN

This Natural Gas Manag	gement Plan m	ust be submitted w	rith each Applicat	tion for Permit to I	Orill (APD) for	a new o	r recompleted well.	
		Section E	1 – Plan D ffective May 25,	escription 2021				
I. Operator: OXY US	A INC.		OGRID: <u>16</u>	696	Date	: 1 2/	2 2/ 2 3	
II. Type: ☑ Original □	☐ Amendment	due to □ 19.15.27	7.9.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 s					wells proposed	to be dr	illed or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	P	Anticipated Produced Water BBL/D	
SEE ATTACHED								
IV. Central Delivery P V. Anticipated Schedul proposed to be recomple	le: Provide the	following informa	ation for each nev	v or recompleted w	<b>.</b>			
Well Name	API	Spud Date	TD Reached Date	Completion Commencement			First Production Date	
SEE ATTACHED								
VI. Separation Equipm VII. Operational Prac Subsection A through F	tices: ☑ Attac	h a complete desc		•			0 1	
VIII. Best Managemer during active and planned			ete description of	Operator's best n	nanagement pra	ctices to	o minimize venting	

# 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	Available Maximum Daily Capacity
_	-		Start Date	of System Segment Tie-in

XI. Map. $\square$ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system $\square$ will $\square$ will not have capacity to gather 100% of the anticipated natu	ral gas
production volume from the well prior to the date of first production.	

XIII. Line	Pressure. Operator	☐ does ☐ does no	t anticipate that its	s existing well(s)	connected to the	ne same segment,	or portion,	of the
natural gas	gathering system(s)	described above wi	Ill continue to mee	et anticipated incr	reases in line pr	ressure caused by	the new we	ell(s).

A 1 .	· · ·	1 4		1 4	•	4 41	. 1	1.
Attach (	Jperator's	nian to	manage	production	in response	to the	ncreased	line pressure

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

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# Section 3 - Certifications Effective May 25, 2021

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

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

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

**Well Shut-In.** □ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

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

(a) power generation on lease;

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

- **(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: Romi Mathew							
Printed Name: Roni Mathew							
Title: Regulatory Advisor							
E-mail Address: roni_mathew@oxy.com							
Date: 12/22/2023							
Phone: 713-215-7827							
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)							
Approved By:							
Title:							
Approval Date:							
Conditions of Approval:							

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
IRIDIUM MDP1 28_21 FED COM 12H	PENDING	O-28-23S-31E	671 FSL 1927 FEL	482	1685	1496
IRIDIUM MDP1 28_21 FED COM 13H	PENDING	O-28-23S-31E	671 FSL 1897 FEL	602	2106	1870
IRIDIUM MDP1 28_21 FED COM 14H	PENDING	O-28-23S-31E	671 FSL 1867 FEL	602	2106	1870
IRIDIUM MDP1 28_21 FED COM 22H	PENDING	N-28-23S-31E	610 FSL 1829 FWL	606	3882	1087
IRIDIUM MDP1 28_21 FED COM 23H	PENDING	N-28-23S-31E	610 FSL 1859 FWL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 24H	PENDING	O-28-23S-31E	671 FSL 1807 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 25H	PENDING	O-28-23S-31E	670 FSL 1777 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 26H	PENDING	O-28-23S-31E	670 FSL 1747 FEL	758	4852	1359
IRIDIUM MDP1 28_21 FED COM 42H	PENDING	N-28-23S-31E	609 FSL 1919 FWL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 43H	PENDING	N-28-23S-31E	609 FSL 1949 FWL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 44H	PENDING	O-28-23S-31E	670 FSL 1687 FEL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 45H	PENDING	O-28-23S-31E	670 FSL 1657 FEL	430	3428	2086
IRIDIUM MDP1 28_21 FED COM 46H	PENDING	O-28-23S-31E	669 FSL 1597 FEL	537	4285	2607
IRIDIUM MDP1 28_21 FED COM 47H	PENDING	O-28-23S-31E	669 FSL 1567 FEL	564	4499	2737
IRIDIUM MDP1 28-21 FED COM 71H	PENDING	N-28-23S-31E	610 FSL 1739 FWL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 72H	PENDING	N-28-23S-31E	610 FSL 1769 FWL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 73H	PENDING	O-28-23S-31E	672 FSL 2017 FEL	896	2118	1591
IRIDIUM MDP1 28-21 FED COM 74H	PENDING	O-28-23S-31E	672 FSL 1987 FEL	896	2118	1591
STERLING SILVER MDP1 33_4 FED COM 11H	PENDING	N-28-23S-31E	735 FSL 1800 FWL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 12H	PENDING	N-28-23S-31E	735 FSL 1830 FWL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 13H	PENDING	O-28-23S-31E	796 FSL 1836 FEL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 14H	PENDING	O-28-23S-31E	796 FSL 1806 FEL	602	2106	1870
STERLING SILVER MDP1 33_4 FED COM 21H	PENDING	N-28-23S-31E	736 FSL 1680 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 22H	PENDING	N-28-23S-31E	736 FSL 1710 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 23H	PENDING	N-28-23S-31E	735 FSL 1740 FWL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 24H	PENDING	O-28-23S-31E	795 FSL 1746 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 25H	PENDING	O-28-23S-31E	795 FSL 1716 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 26H	PENDING	O-28-23S-31E	795 FSL 1686 FEL	758	4852	1359
STERLING SILVER MDP1 33_4 FED COM 41H	PENDING	N-28-23S-31E	735 FSL 1890 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 42H	PENDING	N-28-23S-31E	734 FSL 1920 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 43H	PENDING	N-28-23S-31E	734 FSL 1950 FWL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 44H	PENDING	O-28-23S-31E	795 FSL 1626 FEL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 45H	PENDING	O-28-23S-31E	794 FSL 1596 FEL	597	4761	2897
STERLING SILVER MDP1 33_4 FED COM 46H	PENDING	O-28-23S-31E	794 FSL 1566 FEL	597	4761	2897
STERLING SILVER MDP1 33-4 FED COM 71H	PENDING	C-33-23S-31E	105 FNL 1854 FWL	896	2118	1591
STERLING SILVER MDP1 33-4 FED COM 72H	PENDING	C-33-23S-31E	75 FNL 1854 FWL	896	2118	1591
STERLING SILVER MDP1 33-4 FED COM 73H	PENDING	C-33-23S-31E	45 FNL 1854 FWL	717	1694	1273

Values represent 6 Month Average

# V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
IRIDIUM MDP1 28_21 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 25H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 26H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 42H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 43H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 44H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 45H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 46H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28_21 FED COM 47H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 71H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 72H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 73H	PENDING	TBD	TBD	TBD	TBD	TBD
IRIDIUM MDP1 28-21 FED COM 74H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 11H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 12H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 13H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 14H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 21H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 22H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 23H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 24H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 25H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 26H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 41H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 42H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 43H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 44H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 45H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33_4 FED COM 46H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 71H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 72H	PENDING	TBD	TBD	TBD	TBD	TBD
STERLING SILVER MDP1 33-4 FED COM 73H	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 Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Enterprise system at that time. Based on current information, it is OXY's belief the system can take this gas upon completion of the well(s).

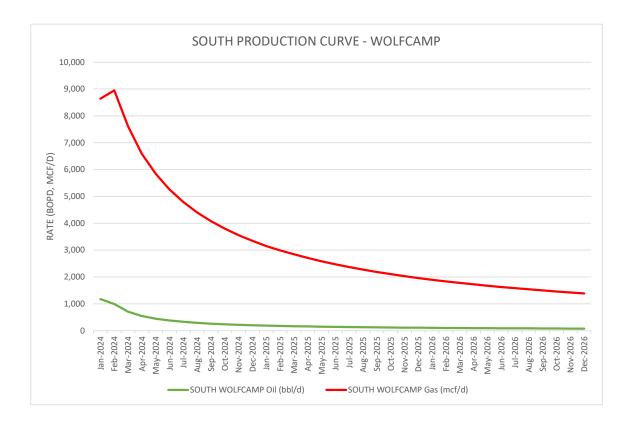
Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

# **VIII. Best Management Practices**

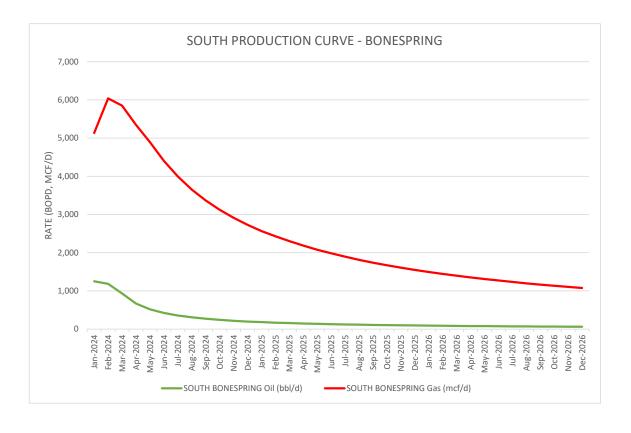
Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

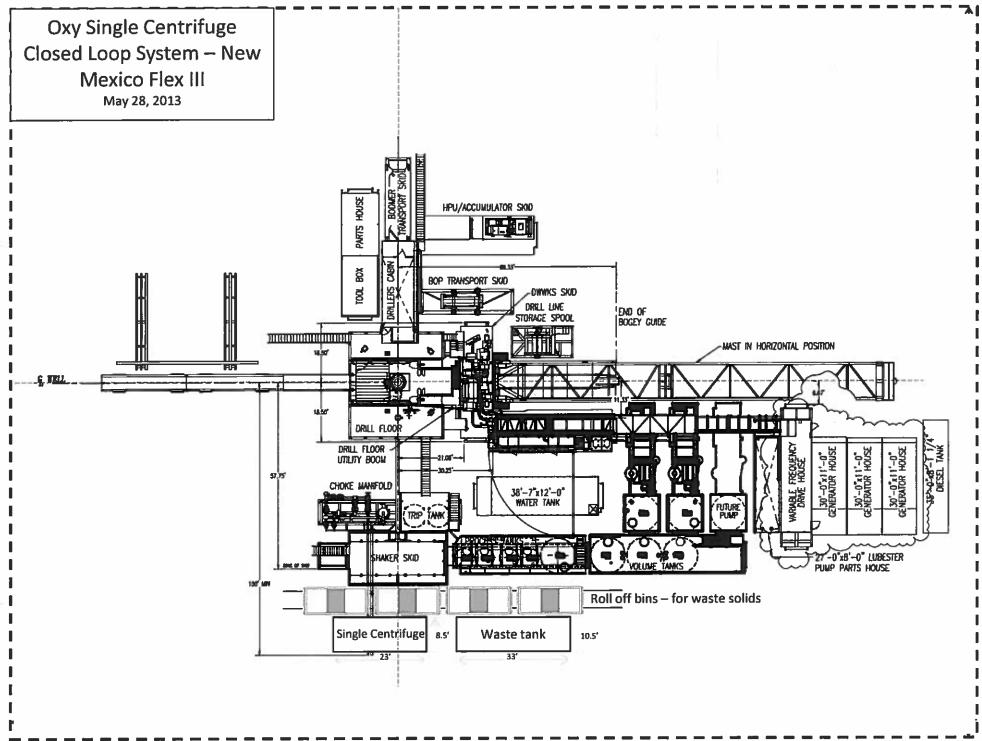
- Power Generation On lease
- oOnly a portion of gas is consumed operating the generator, remainder of gas will be flared
- •Compressed Natural Gas On lease
- oGas flared would be minimal, but might be uneconomical to operate when gas volume declines
- •NGL Removal On lease
- oPlants are expensive, residue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

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

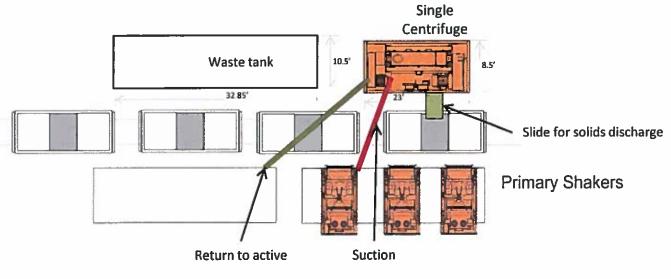


	SOUTH BONESPRING		
	Oil (bbl/d)	Gas (mcf/d)	
Jan-2024	1,250	5,135	
Feb-2024	1,184	6,041	
Mar-2024	933	5,849	
Apr-2024	670	5,349	
May-2024	517	4,893	
Jun-2024	421	4,401	
Jul-2024	355	3,994	
Aug-2024	306	3,652	
Sep-2024	270	3,368	
Oct-2024	240	3,125	
Nov-2024	217	2,915	
Dec-2024	197	2,731	
Jan-2025	181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













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

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME:** OXY USA INC.

WELL NAME & NO.: STERLING SILVER MDP1 33-4 FED COM 22H

LOCATION: Sec28, T23S, R31E

**COUNTY:** Eddy County, New Mexico

COA

$H_2S$	O No		• Yes	
Potash /	O None	Secretary	• R-111-Q	Open Annulus
WIPP	4-String Design: Ope	n 1st Int x 2nd Annulus (	ICP 2 below Relief Z	Cone) $\square$ WIPP
Cave / Karst	• Low	Medium	O High	Critical
Wellhead	<ul><li>Conventional</li></ul>	<ul><li>Multibowl</li></ul>	O Both	<ul><li>Diverter</li></ul>
Cementing	Primary Squeeze	☐ Cont. Squeeze	EchoMeter	☐ DV Tool
Special Req	☐ Capitan Reef	☐ Water Disposal	✓ COM	☐ Unit
Waste Prev.	O Self-Certification	O Waste Min. Plan	• APD Submitted 1	prior to 06/10/2024
Additional	▼ Flex Hose	Casing Clearance	☐ Pilot Hole	Break Testing
Language	▼ Four-String	Offline Cementing	☐ Fluid-Filled	

# A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated AT SPUD. As a result, the Hydrogen Sulfide area must meet all requirements from 43 CFR 3176, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

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

# **B. CASING**

Set points in COA reflects requirements from BLM Geology. Please review.

- 1. The 13-3/8 inch surface casing shall be set at approximately 565 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. BLM Geology Note: BLM proposes to set the surface casing at 565' Eddy county the Rustler fm. managing BLM identified groundwater zones and karst surface to groundwater transport structures.
  - 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

Page 1 of 10

- 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 hours</u> or <u>500 pounds compressive strength</u>, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The 9-5/8 inch intermediate salt protection casing shall be set at approximately 4164 feet TVD. Please set Salt Protection string prior to entering hydrocarbon bearing zone (Delaware). 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, Capitan Reef, or potash.
- 3. The **7-5/8** inch second intermediate casing shall be set at approximately **8149** feet. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:

NOTE: CEMENT PROGRAM LISTED IN THE ATTACHED DRILL PLAN IS INADEQUATE TO COVER THE DEPTHS ON BOTH PRIMARY AND BRADENHEAD. PLEASE REVIEW VOLUMES PRIOR TO CEMENTING THE INTERVAL TO ACHIEVE REQUIREMENTS BELOW. KEEP CASING FULL FOR COLLAPSE SF.

# **Option 1 (Primary + Post Frac Bradenhead):**

- Cement should tie-back 500 feet into the previous casing but not higher than
  USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q
  requirements. Submit results to the BLM. If cement does not circulate, contact
  the appropriate BLM office. Wait on cement (WOC) time for a primary
  cement job is to include the lead cement slurry due to cave/karst, Capitan
  Reef, or potash.
- ❖ A monitored open annulus will be incorporated during completion by leaving the Intermediate Casing 1 x Intermediate Casing 2 annulus un-cemented and monitored inside the Intermediate String. Operator must follow monitoring requirements listed within R-111-Q. Tieback requirements shall be met within 180 days.

Operator has proposed to pump down intermediate 1 x intermediate 2 annulus post completion. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the

annulus OR operator shall run a CBL from TD of the intermediate 2 casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry during second stage bradenhead when running Echo-meter if cement is required to surface. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Operator has proposed an open annulus completion in R-111-Q. Operator shall provide a method of verification pre-completion top of cement. Submit results to the BLM. Pressure monitoring device and Pressure Safety Valves must be installed at surface on both the intermediate annulus and the production annulus for the life of the well.

In the event of a casing failure during completion, the operator must contact the BLM at (575-706-2779) and (575-361-2822 Eddy County).

4. The **5-1/2** inch production casing shall be set at approximately **19,547** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:

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

Cement should tie-back 500 feet into the previous casing but not higher than USGS Marker Bed No. 126. Operator must verify top of cement per R-111-Q requirements. Submit results to the BLM. If cement does not circulate, contact the appropriate BLM office. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.

#### 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).
  - Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 psi.
    - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

# D. SPECIAL REQUIREMENT (S)

# **Communitization Agreement**

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

# **BOPE Break Testing Variance**

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

# **Offline Cementing**

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

# **Casing Clearance**

Overlap clearance OK.

# **GENERAL REQUIREMENTS**

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

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

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

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

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - i. Notify the BLM when moving in and removing the Spudder Rig.
    - ii. Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2<sup>nd</sup> Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

#### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

# **B. PRESSURE CONTROL**

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR 3172.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's

- requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - iii. Manufacturer representative shall install the test plug for the initial BOP test.
  - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve

- open. (only applies to single stage cement jobs, prior to the cement setting up.)
- iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR 3172.

# C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

# D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be

disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**KPI -12/01/2024** 

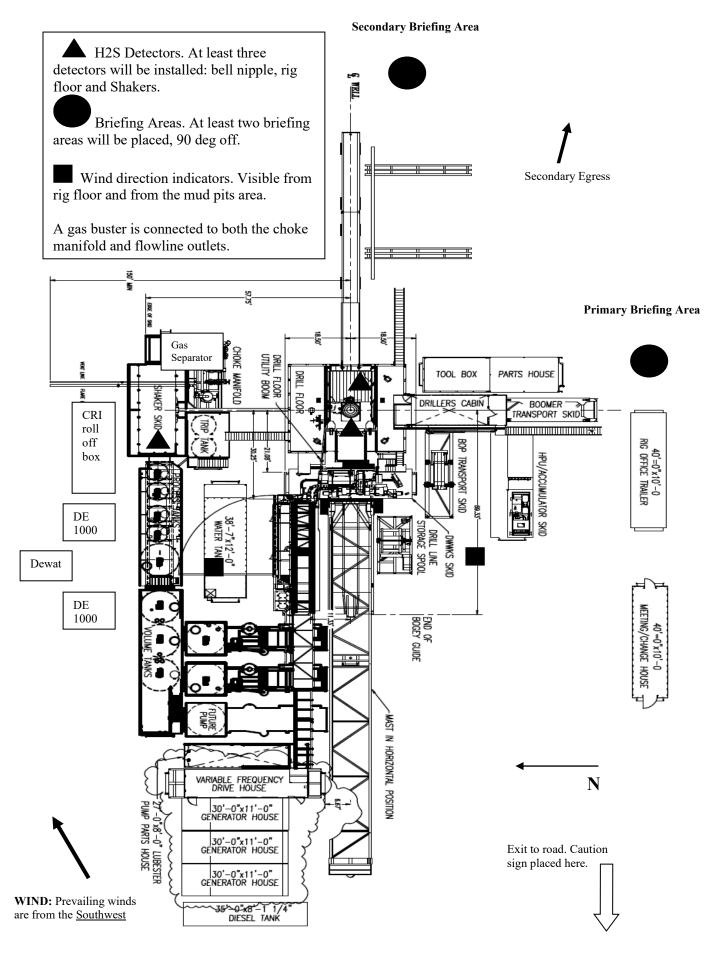


# Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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

# 1. Escape

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





# Permian Drilling Hydrogen Sulfide Drilling Operations Plan New Mexico

# **Scope**

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

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

# **Objective**

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

# **Discussion**

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

before drilling to commence.

Emergency response

Procedure:

This section outlines the conditions and denotes steps

to be taken in the event of an emergency.

Emergency equipment

Procedure:

This section outlines the safety and emergency

equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that

must be adhered to prior to drilling.

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

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

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

potential evacuation and any additional support

needed.

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

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

# **Hydrogen Sulfide Training**

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

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

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

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

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

# Service company and visiting personnel

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

# **Emergency Equipment Requirements**

# 1. Well control equipment

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

# Special control equipment:

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

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

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

# 3. Hydrogen sulfide sensors and alarms

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

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

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

Caution – potential poison gas Hydrogen sulfide No admittance without authorization

#### *Wind sock – wind streamers:*

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

# Condition flags

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

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

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

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

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

# Mud inspection devices:

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

# 6. <u>Metallurgy</u>

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

# 7. Well Testing

No drill stem test will be performed on this well.

# 8. Evacuation plan

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

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

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

# **Emergency procedures**

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

### B. If uncontrollable conditions occur:

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

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

# C. Responsibility:

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

All personnel:

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

Drill site manager:

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

Tool pusher:

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

Driller:

1. Don escape unit, shut down pumps, continue

rotating DP.

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

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

Mud engineer:

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

Safety personnel:

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

# Taking a kick

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

# **Open-hole logging**

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

# Running casing or plugging

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

# **Ignition procedures**

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

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

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

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

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

# **Status check list**

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

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

Checked by:	Date:
encenca by.	Bates

# **Procedural check list during H2S events**

### Perform each tour:

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

# Perform each week:

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

# **General evacuation plan**

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

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

# **Emergency actions**

# Well blowout – if emergency

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

# Person down location/facility

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

# Toxic effects of hydrogen sulfide

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

Table i Toxicity of various gases

Common name	Chemical formula	Specific gravity	Threshold limit	Hazardous limit	Lethal concentration (3)
		(sc=1)	(1)	(2)	
Hydrogen	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide					
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide			11	11	11
Sulfur	So2	2.21	5 ppm	_	1000 ppm
Dioxide	202		o pp		1000 pp
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
Cinorine	CIZ	2.73	ı ppiii	т ррш/ш	1000 ppiii
Carbon	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Monoxide	CO	0.97	50 ppm	400 ppin/iii	1000 ppiii
	Co2	1.52	5000 nnm	5%	10%
Carbon	C02	1.32	5000 ppm	370	1070
Dioxide					
Methane	Ch4	0.55	90,000 ppm	Combustib	le above 5% in air

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

# Toxic effects of hydrogen sulfide

Table ii
Physical effects of hydrogen sulfide

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

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

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

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

- 1. Written procedures shall be prepared covering safe use of SCBA's in dangerous atmosphere, which might be encountered in normal operations or in emergencies. Personnel shall be familiar with these procedures and the available SCBA.
- 2 SCBA's shall be inspected frequently at random to insure that they are properly used, cleaned, and maintained.
- 3. Anyone who may use the SCBA's shall be trained in how to insure proper 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.

# Rescue First aid for H2S poisoning

# Do not panic!

Remain calm – think!

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

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

Revised CM 6/27/2012

### PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)



Project: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: Sterling Silver MDP1 33\_4 Federal Com Well: Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore: Wellbore #1
Design: Permitting Plan

Geodetic System: US State Plane 1983

Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

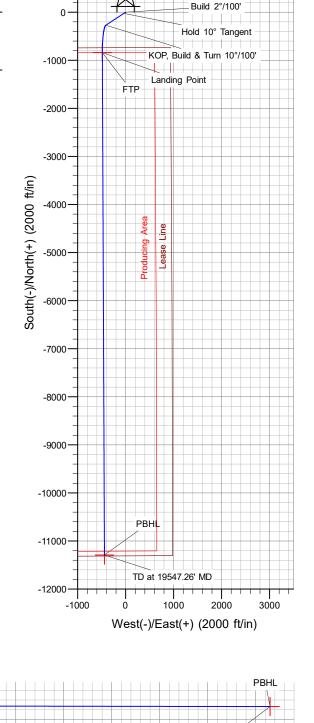
WELL DETAILS: Sterling Silver MDP1 33\_4 Federal Com 22H

+N/-S 0.00		E/-W 0.00	Northin 462464.3		3373.0 Easting 10579.61	U	Latittude 32.270202		Longitude -103.785762	
				SE	CTION DET	AILS				
MD 0.00	Inc 0.00	Azi 0.00	TVD 0.00	+N/-S 0.00	+E/-W 0.00	Dleg 0.00	TFace 0.00	VSect 0.00	Annotation	_
5173.00 5673.19 8248.89 9093.82	0.00 10.00 10.00 89.91	0.00 236.86 236.86 179.76	5173.00 5670.65 8207.19 8720.50	0.00 -23.81 -268.44 -838.23	0.00 -36.47 -411.11 -484.62	0.00 2.00 0.00 10.00	0.00 236.86 0.00 -57.51	0.00 25.22 284.27 856.50	Build 2°/100' Hold 10° Tangent KOP, Build & Turn 10°/100' Landing Point	
			8720.50							

T G M

Azimuths to Grid North True North: -0.29° Magnetic North: 6.42°

> Magnetic Field Strength: 47900.5nT Dip Angle: 59.95° Date: 12/31/2019 Model: HDGM\_FILE

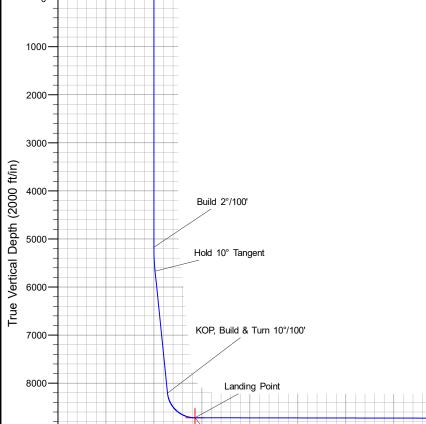


TD at 19547.26' MD

11000

12000

10000



FTP

2000

3000

4000

5000

Vertical Section at 182.24° (2000 ft/in)

6000

7000

8000

9000

1000

-1000

9000

10000

-2000

PRD NM DIRECTIONAL PLANS (NAD 1983) Sterling Silver MDP1 33\_4 Federal Com Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore #1

**Plan: Permitting Plan** 

# **Standard Planning Report**

07 February, 2023

**TVD Reference:** 

# Planning Report

Database: HOPSPP

Well:

Local Co-ordinate Reference: Well Sterling Silver MDP1 33\_4 Federal Com

22H

Company: ENGINEERING DESIGNS
Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33\_4 Federal Com

MD Reference: North Reference: Survey Calculation Method: RKB 26.5' @ 3399.50ft RKB 26.5' @ 3399.50ft

Grid Minimum Curvature

Wellbore: Wellbore #1

Design: Permitting Plan

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983 System Datum:

12/31/2019

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

Mean Sea Level

Using geodetic scale factor

59.95

47,900.50000000

Site Sterling Silver MDP1 33 4 Federal Com

 Site Position:
 Northing:
 461,634.30 usft
 Latitude:
 32.267933

 From:
 Map
 Easting:
 709,709.04 usft
 Longitude:
 -103.788592

Position Uncertainty: 49.91 ft Slot Radius: 13.200 in

Sterling Silver MDP1 33 4 Federal Com 22H

Well Sterling Silver MDP1 33\_4 Federal Com 22H

HDGM FILE

**Well Position** +N/-S Northing: 462,464.38 usf Latitude: 32.270202 0.00 ft +E/-W 0.00 ft Easting: 710,579.61 usf Longitude: -103.785762 **Position Uncertainty** 1.00 ft Wellhead Elevation: ft **Ground Level:** 3,373.00 ft

Grid Convergence: 0.29 °

 Wellbore
 Wellbore #1

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

6.72

Design	Permitting Plan					
Audit Notes:						
Version:		Phase:	PROTOTYPE	Tie On Depth:	0.00	
Vertical Section:		Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
		0.00	0.00	0.00	182.24	

Plan Sections  Measured  Depth  (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,173.00	0.00	0.00	5,173.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,673.19	10.00	236.86	5,670.65	-23.81	-36.47	2.00	2.00	0.00	236.86	
8,248.89	10.00	236.86	8,207.19	-268.44	-411.11	0.00	0.00	0.00	0.00	
9,093.82	89.91	179.76	8,720.50	-838.23	-484.62	10.00	9.46	-6.76	-57.51	FTP (Sterling Silver
19,547.26	89.91	179.76	8,737.50	-11,291.57	-440.88	0.00	0.00	0.00	0.00	PBHL (Sterling

# Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: Sterling Silver MDP1 33\_4 Federal Com Well:

Wellbore: Design: Permitting Plan

Sterling Silver MDP1 33\_4 Federal Com 22H Wellbore #1

Local Co-ordinate Reference:

Well Sterling Silver MDP1 33\_4 Federal Com 22H

RKB 26.5' @ 3399.50ft TVD Reference: MD Reference: RKB 26.5' @ 3399.50ft Grid North Reference:

**Survey Calculation Method:** Minimum Curvature

nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	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	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
			,						
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,173.00	0.00	0.00	5,173.00	0.00	0.00	0.00	0.00	0.00	0.00
0.170.00	0.00	236.86	5,200.00	-0.07	-0.11	0.00	2.00	2.00	0.00

# Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33\_4 Federal Com

Well: Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** 

Well Sterling Silver MDP1 33\_4 Federal Com

22H

RKB 26.5' @ 3399.50ft RKB 26.5' @ 3399.50ft

Grid

Minimum Curvature

Jesign:	Permitting Pia	uii							
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	2.54	236.86	5,299.96	-1.54	-2.36	1.63	2.00	2.00	0.00
5,400.00	4.54	236.86	5,399.76	-4.91	-7.53	5.20	2.00	2.00	0.00
5,500.00	6.54	236.86	5,499.29	-10.19	-15.61	10.79	2.00	2.00	0.00
5,600.00	8.54	236.86	5,598.42	-17.37	-26.60	18.39	2.00	2.00	0.00
5,673.19	10.00	236.86	5,670.65	-23.81	-36.47	25.22	2.00	2.00	0.00
5,700.00	10.00	236.86	5,697.06	-26.36	-40.37	27.91	0.00	0.00	0.00
5,800.00	10.00	236.86	5,795.53	-35.86	-54.91	37.97	0.00	0.00	0.00
5,900.00	10.00	236.86	5,894.01	-45.35	-69.46	48.03	0.00	0.00	0.00
6,000.00	10.00	236.86	5,992.49	-54.85	-84.00	58.09	0.00	0.00	0.00
6,100.00	10.00	236.86	6,090.97	-64.35	-98.55	68.15	0.00	0.00	0.00
6,200.00	10.00	236.86	6,189.45	-73.85	-113.09	78.20	0.00	0.00	0.00
6,300.00	10.00	236.86	6,287.93	-83.34	-127.64	88.26	0.00	0.00	0.00
6,400.00	10.00	236.86	6,386.41	-92.84	-142.18	98.32	0.00	0.00	0.00
6,500.00	10.00	236.86	6,484.89	-102.34	-156.73	108.38	0.00	0.00	0.00
6,600.00	10.00	236.86	6,583.37	-111.84	-171.27	118.43	0.00	0.00	0.00
6,700.00	10.00	236.86	6,681.85	-121.33	-185.82	128.49	0.00	0.00	0.00
6,800.00	10.00	236.86	6,780.33	-130.83	-200.37	138.55	0.00	0.00	0.00
6,900.00	10.00	236.86	6,878.81	-140.33	-214.91	148.61	0.00	0.00	0.00
7,000.00	10.00	236.86	6,977.29	-149.83	-229.46	158.66	0.00	0.00	0.00
7,100.00	10.00	236.86	7,075.77	-159.32	-244.00	168.72	0.00	0.00	0.00
7,200.00	10.00	236.86	7,174.25	-168.82	-258.55	178.78	0.00	0.00	0.00
7,300.00	10.00	236.86	7,272.73	-178.32	-273.09	188.84	0.00	0.00	0.00
7,400.00	10.00	236.86	7,272.73 7,371.21	-176.32 -187.82	-273.09 -287.64	198.89	0.00	0.00	0.00
7,500.00	10.00	236.86	7,371.21	-197.31	-302.18	208.95	0.00	0.00	0.00
7,600.00	10.00	236.86	7,568.17	-206.81	-316.73	219.01	0.00	0.00	0.00
7,700.00	10.00	236.86	7,666.65	-216.31	-331.27	229.07	0.00	0.00	0.00
7,800.00	10.00	236.86	7,765.13	-225.81	-345.82	239.13	0.00	0.00	0.00
7,900.00	10.00	236.86	7,863.61	-235.30	-360.36	249.18	0.00	0.00	0.00
8,000.00	10.00	236.86	7,962.09	-244.80	-374.91	259.24	0.00	0.00	0.00
8,100.00	10.00	236.86	8,060.57	-254.30	-389.45	269.30	0.00	0.00	0.00
8,200.00	10.00	236.86	8,159.05	-263.80	-404.00	279.36	0.00	0.00	0.00
8,248.89	10.00	236.86	8,207.19	-268.44	-411.11	284.27	0.00	0.00	0.00
8,300.00	13.45	218.01	8,257.25	-275.55	-418.49	291.67	10.00	6.75	-36.87
8,400.00	22.12	201.12	8,352.44	-302.35	-432.47	318.99	10.00	8.67	-16.89
8,500.00	31.56	193.70	8,441.59	-345.44	-445.49	362.56	10.00	9.44	-7.42
8,600.00	41.24	189.47	8,522.00	-403.52	-457.14	421.05	10.00	9.69	-4.23
8,700.00	51.03	186.63	8,591.21	-474.83	-467.08	492.69	10.00	9.79	-2.85
8,800.00	60.87	184.48	8,647.14	-474.63 -557.20	-407.00 -475.00	575.31	10.00	9.79	-2.05 -2.15
a a a a a a	70.74	400 74	o ooo o=	-648.12	-475.00 -480.66	666.38	10.00	9.87	-2.13 -1.77
8,900.00 9,000.00	80.63	182.71 181.15	8,688.07 8,712.77	-744.84	-483.89	763.15	10.00	9.88	-1.77 -1.57
9,093.82	89.91	179.76	8,720.50	-838.23	-484.62	856.50	10.00	9.89	-1.48
			,						
9,100.00	89.91	179.76	8,720.51	-844.41	-484.59	862.68	0.00	0.00	0.00
9,200.00	89.91	179.76	8,720.67	-944.41	-484.17	962.58	0.00	0.00	0.00
9,300.00	89.91	179.76	8,720.84	-1,044.41	-483.76	1,062.49	0.00	0.00	0.00
9,400.00	89.91	179.76	8,721.00	-1,144.41	-483.34	1,162.39	0.00	0.00	0.00
9,500.00	89.91	179.76	8,721.16	-1,244.41	-482.92	1,262.30	0.00	0.00	0.00
9,600.00	89.91	179.76	8,721.32	-1,344.41	-482.50	1,362.21	0.00	0.00	0.00
9,700.00	89.91	179.76	8,721.49	-1,444.41	-482.08	1,462.11	0.00	0.00	0.00
9,800.00	89.91	179.76	8,721.65	-1,544.40	-481.66	1,562.02	0.00	0.00	0.00
9,900.00	89.91	179.76	8,721.81	-1,644.40	-481.25	1,661.93	0.00	0.00	0.00
10,000.00	89.91	179.76	8,721.97	-1,744.40	-480.83	1,761.83	0.00	0.00	0.00
10,100.00	89.91	179.76	8,722.14	-1,844.40	-480.41	1,861.74	0.00	0.00	0.00
10,100.00	89.91 89.91	179.76 179.76	8,722.14 8,722.30	-1,844.40 -1,944.40	-480.41 -479.99	1,861.74 1,961.65	0.00	0.00	0.00
10,200.00		179.76					0.00		
10,300.00	89.91	1/9./0	8,722.46	-2,044.40	-479.57	2,061.55	0.00	0.00	0.00

# Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33\_4 Federal Com

Well: Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

**Survey Calculation Method:** 

Well Sterling Silver MDP1 33\_4 Federal Com

22H

RKB 26.5' @ 3399.50ft RKB 26.5' @ 3399.50ft

Grid

Minimum Curvature

Measured	Design:	Permitting Pia	ип							
Depth (n)	Planned Survey									
10,500.00   89.91   179.76   8,722.79   -2,244.40   -478.73   2,261.37   0.00   0.00   0.00   10,000.00   89.91   179.76   8,723.91   -2,244.40   -477.90   2,461.18   0.00   0.00   0.00   0.00   10,000.00   89.91   179.76   8,723.11   -2,244.40   -477.90   2,461.18   0.00   0.00   0.00   0.00   10,000.00   89.91   179.76   8,723.44   -2,244.39   -477.66   2,5660.99   0.00   0.00   0.00   0.00   11,000.00   89.91   179.76   8,723.67   -2,244.39   -477.66   2,5660.99   0.00   0.00   0.00   0.00   11,000.00   89.91   179.76   8,723.67   -2,244.39   -476.64   2,760.99   0.00   0.00   0.00   0.00   11,000.00   89.91   179.76   8,723.93   -2,244.39   -476.59   3,066.62   0.00   0.00   0.00   0.00   11,400.00   89.91   179.76   8,724.26   -3,44.39   -474.55   3,560.43   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.59   -3,44.39   -474.55   3,560.43   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.89   -3,44.39   -474.55   3,560.43   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.89   -3,44.39   -474.55   -3,560.43   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.56   -3,444.39   -473.71   3,460.25   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.56   -3,444.39   -472.45   -3,444.39   -472.45   -3,460.25   0.00   0.00   0.00   0.00   0.00   11,500.00   89.91   179.76   8,724.56   -3,444.39   -472.45   -3,444.39	Depth			Depth			Section	Rate	Rate	Rate
10,700,000 89,91 179,76 8,723,11 -2,444.40 -477,90 2,461.18 0.00 0.00 0.00 10,900,000 89,91 179,76 8,723,84 -2,644.39 -477,66 2,660,99 0.00 0.00 0.00 0.00 11,000,000 89,91 179,76 8,723,60 -2,244.39 -476,64 2,760,90 0.00 0.00 0.00 11,000,00 89,91 179,76 8,723,60 -2,244.39 -476,64 2,760,90 0.00 0.00 0.00 11,000,00 89,91 179,76 8,723,60 -2,244.39 -476,64 2,260,71 0.00 0.00 0.00 11,000,00 89,91 179,76 8,724,09 -3,044.39 -476,61 2,260,71 0.00 0.00 0.00 11,400,00 89,91 179,76 8,724,09 -3,044.39 -475,61 2,360,71 0.00 0.00 0.00 11,400,00 89,91 179,76 8,724,09 -3,044.39 -475,61 2,360,53 0.00 0.00 0.00 0.00 11,500,00 89,91 179,76 8,724,41 -3,244.39 -474,65 3,260,43 0.00 0.00 0.00 0.00 11,500,00 89,91 179,76 8,724,41 -3,444.39 -474,65 3,260,43 0.00 0.00 0.00 0.00 11,500,00 89,91 179,76 8,724,41 -3,444.39 -474,51 3,360,34 0.00 0.00 0.00 0.00 11,500,00 89,91 179,76 8,724,50 3,344.39 -472,81 3,560,55 0.00 0.00 0.00 0.00 11,500,00 89,91 179,76 8,725,06 -3,644.38 -472,24 3,369,36 1.00 0.00 0.00 0.00 12,000 89,91 179,76 8,725,06 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,000 89,91 179,76 8,725,06 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,364.38 -472,24 3,369,36 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,464.38 -472,26 3,569,57 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,464.38 4,72,24 4,74,30 3,469,86 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,544,38 4,72,24 4,74,30 3,469,86 0.00 0.00 0.00 0.00 12,200,00 89,91 179,76 8,725,56 3,464,38 4,72,74 4,74 4,74 4,74 4,74 4,74 4,74 4										
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12,800.00	12,600.00	89.91	179.76	8,726.20				0.00	0.00	0.00
12,900.00 89.91 179.76 8,726.89 4,644.37 -468.69 4,659.12 0.00 0.00 0.00 13,000.00 89.91 179.76 8,726.85 -4,744.37 -468.27 4,759.03 0.00 0.00 0.00 0.00 13,000.00 89.91 179.76 8,727.18 -4,944.37 -467.46 4,858.94 0.00 0.00 0.00 0.00 13,200.00 89.91 179.76 8,727.18 -4,944.37 -467.44 4,958.84 0.00 0.00 0.00 0.00 13,300.00 89.91 179.76 8,727.34 -5,044.37 -467.02 5,058.75 0.00 0.00 0.00 0.00 13,500.00 89.91 179.76 8,727.34 -5,044.37 -466.05 5,158.66 0.00 0.00 0.00 0.00 13,500.00 89.91 179.76 8,727.67 -5,244.37 -466.18 5,258.56 0.00 0.00 0.00 0.00 13,500.00 89.91 179.76 8,727.83 -5,344.37 -465.76 5,358.47 0.00 0.00 0.00 0.00 13,800.00 89.91 179.76 8,727.83 -5,444.37 -465.34 5,458.38 0.00 0.00 0.00 0.00 13,800.00 89.91 179.76 8,728.32 -5,644.36 -464.93 5,558.28 0.00 0.00 0.00 0.00 13,800.00 89.91 179.76 8,728.32 -5,644.36 -464.93 5,558.48 0.00 0.00 0.00 0.00 14,000.00 89.91 179.76 8,728.32 -5,644.36 -464.51 5,658.19 0.00 0.00 0.00 0.00 14,000.00 89.91 179.76 8,728.32 -5,644.36 -464.51 5,658.19 0.00 0.00 0.00 0.00 14,000.00 89.91 179.76 8,728.84 -5,744.36 -464.51 5,658.19 0.00 0.00 0.00 0.00 14,200.00 89.91 179.76 8,728.84 -5,744.36 -464.51 5,658.19 0.00 0.00 0.00 0.00 14,200.00 89.91 179.76 8,728.80 -5,944.36 -463.67 5,858.00 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.80 -5,944.36 -463.57 5,858.00 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.80 -5,944.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.80 -5,944.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.90 -5,444.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.90 -5,444.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.90 -5,444.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.90 -5,444.36 -462.25 5,957.91 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,728.90 -5,444.36 -462.85 6,957.81 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,729.29 -6,244.36 -463.57 5,858.00 0.00 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.27 -6,444.35 -460.00 6,257.63 0.00 0.00 0.0		89.91	179.76	8,726.36	-4,444.38	-469.53		0.00		0.00
13,000.00       89.91       179.76       8,726.85       -4,744.37       -468.27       4,759.03       0.00       0.00       0.00         13,100.00       89.91       179.76       8,727.02       -4,844.37       -467.86       4,858.94       0.00       0.00       0.00         13,200.00       89.91       179.76       8,727.83       -5,044.37       -467.44       4,958.84       0.00       0.00       0.00         13,300.00       89.91       179.76       8,727.50       -5,144.37       -466.60       5,158.66       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.67       -5,244.37       -466.60       5,158.66       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.83       -5,344.37       -466.76       5,358.47       0.00       0.00       0.00         13,600.00       89.91       179.76       8,722.83       -5,344.37       -465.74       5,458.38       0.00       0.00       0.00         13,600.00       89.91       179.76       8,728.12       -5,544.36       -465.34       5,458.38       0.00       0.00       0.00         13,900.00       89.91       179.76       8,7				,	,					
13,100.00       89.91       179.76       8,727.02       -4,844.37       -467.86       4,858.94       0.00       0.00       0.00         13,200.00       89.91       179.76       8,727.18       -4,944.37       -467.44       4,958.84       0.00       0.00       0.00         13,300.00       89.91       179.76       8,727.50       -5,144.37       -466.60       5,158.66       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.67       -5,244.37       -466.18       5,258.56       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.83       -5,344.37       -465.76       5,358.47       0.00       0.00       0.00         13,700.00       89.91       179.76       8,727.99       -5,444.37       -465.34       5,458.38       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.95       -5,544.36       -465.34       5,458.38       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.48       -5,744.36       -464.91       5,658.19       0.00       0.00       0.00         14,100.00       89.91       179.76       8,7	,			,						
13,200.00       89.91       179.76       8,727.18       -4,944.37       -467.44       4,958.84       0.00       0.00       0.00         13,300.00       89.91       179.76       8,727.50       -5,144.37       -466.00       5,158.66       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.67       -5,244.37       -466.18       5,258.56       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.83       -5,344.37       -465.76       5,358.47       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.99       -5,444.37       -465.74       5,458.38       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.15       -5,544.36       -464.93       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.48       -5,744.36       -464.51       5,658.19       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.64       -5,844.36       -464.51       5,658.19       0.00       0.00       0.00         14,200.00       89.91       179.76       8,7	13,000.00	89.91	179.76	8,726.85		-468.27	4,759.03	0.00	0.00	0.00
13,300.00       89.91       179.76       8,727.34       -5,044.37       -467.02       5,058.75       0.00       0.00       0.00         13,400.00       89.91       179.76       8,727.50       -5,144.37       -466.60       5,158.66       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.83       -5,344.37       -465.76       5,358.47       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.99       -5,444.37       -465.34       5,458.38       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.15       -5,544.36       -464.93       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.48       -5,744.36       -464.99       5,758.10       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.64       -5,844.36       -464.51       5,658.19       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,200.00       89.91       179.76       8,7				,	,					
13,400.00       89.91       179.76       8,727.50       -5,144.37       -466.60       5,158.66       0.00       0.00       0.00         13,500.00       89.91       179.76       8,727.67       -5,244.37       -466.18       5,258.56       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.99       -5,444.37       -465.76       5,358.47       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.15       -5,544.36       -464.93       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.32       -5,644.36       -464.51       5,658.19       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.48       -5,744.36       -464.09       5,758.10       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.64       -5,844.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,200.00       89.91       179.76       8,7				,	,					
13,500.00       89.91       179.76       8,727.67       -5,244.37       -466.18       5,258.56       0.00       0.00       0.00         13,600.00       89.91       179.76       8,727.83       -5,344.37       -465.76       5,358.47       0.00       0.00       0.00         13,700.00       89.91       179.76       8,728.15       -5,544.36       -464.93       5,558.28       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.45       -5,644.36       -464.91       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.48       -5,744.36       -464.51       5,658.19       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.64       -5,844.36       -464.99       5,758.10       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.89       -5,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,7				,						
13,600.00 89.91 179.76 8,727.93 -5,344.37 -465.76 5,358.47 0.00 0.00 0.00 13,700.00 89.91 179.76 8,727.99 -5,444.37 -465.34 5,458.38 0.00 0.00 0.00 0.00 13,800.00 89.91 179.76 8,728.32 -5,644.36 -464.93 5,558.28 0.00 0.00 0.00 0.00 13,900.00 89.91 179.76 8,728.32 -5,644.36 -464.91 5,6558.19 0.00 0.00 0.00 0.00 14,000.00 89.91 179.76 8,728.84 -5,744.36 -464.09 5,758.10 0.00 0.00 0.00 0.00 14,000.00 89.91 179.76 8,728.80 -5,944.36 -463.67 5,858.00 0.00 0.00 0.00 0.00 14,200.00 89.91 179.76 8,728.80 -5,944.36 -463.25 5,957.91 0.00 0.00 0.00 0.00 14,200.00 89.91 179.76 8,728.80 -5,944.36 -462.83 6,057.81 0.00 0.00 0.00 0.00 14,300.00 89.91 179.76 8,728.97 -6,044.36 -462.83 6,057.81 0.00 0.00 0.00 0.00 14,400.00 89.91 179.76 8,729.13 -6,144.36 -462.42 6,157.72 0.00 0.00 0.00 0.00 14,500.00 89.91 179.76 8,729.29 -6,244.36 -462.00 6,257.63 0.00 0.00 0.00 0.00 14,600.00 89.91 179.76 8,729.45 -6,344.36 -462.00 6,257.63 0.00 0.00 0.00 0.00 14,600.00 89.91 179.76 8,729.45 -6,344.36 -461.16 6,457.44 0.00 0.00 0.00 0.00 14,800.00 89.91 179.76 8,729.45 -6,344.36 -461.16 6,457.44 0.00 0.00 0.00 0.00 14,800.00 89.91 179.76 8,729.92 -6,244.35 -460.74 6,557.35 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,729.94 -6,644.35 -460.74 6,557.35 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,729.94 -6,644.35 -460.74 6,557.35 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,729.94 -6,644.35 -459.90 6,757.16 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.43 -6,944.35 -459.90 6,757.16 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.43 -6,944.35 -459.90 6,757.16 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.43 -6,944.35 -459.90 6,757.16 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.59 -7,044.35 -459.90 6,757.16 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.59 -7,044.35 -459.65 7,056.88 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.59 -7,044.35 -459.65 7,056.88 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.92 -7,244.35 -459.65 7,056.89 0.00 0.00 0.00 0.00 15,000.00 89.91 179.76 8,730.92 -7,244.35 -459.80 7,356.60 0.00 0.00 0.00 0.00 0	,									
13,700.00       89.91       179.76       8,727.99       -5,444.37       -465.34       5,458.38       0.00       0.00       0.00         13,800.00       89.91       179.76       8,728.15       -5,544.36       -464.91       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.32       -5,644.36       -464.51       5,658.19       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.64       -5,844.36       -464.09       5,758.10       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.80       -5,944.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.89       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.42       6,157.72       0.00       0.00       0.00         14,600.00       89.91       179.76       8,7	13,500.00		179.76	8,727.67	-5,244.37	-466.18		0.00		0.00
13,800.00       89.91       179.76       8,728.15       -5,544.36       -464.93       5,558.28       0.00       0.00       0.00         13,900.00       89.91       179.76       8,728.32       -5,644.36       -464.51       5,658.19       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.48       -5,744.36       -464.09       5,758.10       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.64       -5,844.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,800.00       89.91       179.76       8,7	,			,	,		- ,			
13,900.00       89.91       179.76       8,728.32       -5,644.36       -464.51       5,658.19       0.00       0.00       0.00         14,000.00       89.91       179.76       8,728.48       -5,744.36       -464.09       5,758.10       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.64       -5,844.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -462.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.23       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -461.58       6,357.53       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,800.00       89.91       179.76       8,7	,			,	,					
14,000.00       89.91       179.76       8,728.48       -5,744.36       -464.09       5,758.10       0.00       0.00       0.00         14,100.00       89.91       179.76       8,728.64       -5,844.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -462.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         15,000.00       89.91       179.76       8,7										
14,100.00       89.91       179.76       8,728.64       -5,844.36       -463.67       5,858.00       0.00       0.00       0.00         14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         15,000.00       89.91       179.76       8,7										
14,200.00       89.91       179.76       8,728.80       -5,944.36       -463.25       5,957.91       0.00       0.00       0.00         14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.78       -6,344.36       -461.16       6,457.44       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,7					,					
14,300.00       89.91       179.76       8,728.97       -6,044.36       -462.83       6,057.81       0.00       0.00       0.00         14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.27       -6,844.35       -459.90       6,757.16       0.00       0.00       0.00         15,200.00       89.91       179.76       8,7	14,100.00	89.91	179.76	,	-5,844.36	-463.67	5,858.00	0.00	0.00	0.00
14,400.00       89.91       179.76       8,729.13       -6,144.36       -462.42       6,157.72       0.00       0.00       0.00         14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.43       -6,944.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,7				8,728.80						
14,500.00       89.91       179.76       8,729.29       -6,244.36       -462.00       6,257.63       0.00       0.00       0.00         14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.43       -6,944.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.07       6,956.97       0.00       0.00       0.00         15,300.00       89.91       179.76       8,7										
14,600.00       89.91       179.76       8,729.45       -6,344.36       -461.58       6,357.53       0.00       0.00       0.00         14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.27       -6,844.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.49       6,857.07       0.00       0.00       0.00         15,300.00       89.91       179.76       8,730.59       -7,044.35       -459.07       6,956.97       0.00       0.00       0.00         15,400.00       89.91       179.76       8,7										
14,700.00       89.91       179.76       8,729.62       -6,444.36       -461.16       6,457.44       0.00       0.00       0.00         14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.27       -6,844.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.07       6,956.97       0.00       0.00       0.00         15,300.00       89.91       179.76       8,730.59       -7,044.35       -458.65       7,056.88       0.00       0.00       0.00         15,400.00       89.91       179.76       8,730.76       -7,144.35       -458.23       7,156.79       0.00       0.00       0.00         15,600.00       89.91       179.76       8,7										
14,800.00       89.91       179.76       8,729.78       -6,544.35       -460.74       6,557.35       0.00       0.00       0.00         14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.27       -6,844.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.07       6,956.97       0.00       0.00       0.00         15,300.00       89.91       179.76       8,730.59       -7,044.35       -458.65       7,056.88       0.00       0.00       0.00         15,400.00       89.91       179.76       8,730.76       -7,144.35       -458.23       7,156.79       0.00       0.00       0.00         15,600.00       89.91       179.76       8,730.92       -7,244.35       -457.81       7,256.69       0.00       0.00       0.00         15,600.00       89.91       179.76       8,7	,									
14,900.00       89.91       179.76       8,729.94       -6,644.35       -460.32       6,657.25       0.00       0.00       0.00         15,000.00       89.91       179.76       8,730.11       -6,744.35       -459.90       6,757.16       0.00       0.00       0.00         15,100.00       89.91       179.76       8,730.27       -6,844.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.07       6,956.97       0.00       0.00       0.00         15,300.00       89.91       179.76       8,730.59       -7,044.35       -458.65       7,056.88       0.00       0.00       0.00         15,400.00       89.91       179.76       8,730.76       -7,144.35       -458.23       7,156.79       0.00       0.00       0.00         15,500.00       89.91       179.76       8,730.92       -7,244.35       -457.81       7,256.69       0.00       0.00       0.00         15,600.00       89.91       179.76       8,731.08       -7,344.35       -457.39       7,356.60       0.00       0.00       0.00										
15,000.00     89.91     179.76     8,730.11     -6,744.35     -459.90     6,757.16     0.00     0.00     0.00       15,100.00     89.91     179.76     8,730.27     -6,844.35     -459.49     6,857.07     0.00     0.00     0.00       15,200.00     89.91     179.76     8,730.43     -6,944.35     -459.07     6,956.97     0.00     0.00     0.00       15,300.00     89.91     179.76     8,730.59     -7,044.35     -458.65     7,056.88     0.00     0.00     0.00       15,400.00     89.91     179.76     8,730.76     -7,144.35     -458.23     7,156.79     0.00     0.00     0.00       15,500.00     89.91     179.76     8,730.92     -7,244.35     -457.81     7,256.69     0.00     0.00     0.00       15,600.00     89.91     179.76     8,731.08     -7,344.35     -457.39     7,356.60     0.00     0.00     0.00										
15,100.00       89.91       179.76       8,730.27       -6,844.35       -459.49       6,857.07       0.00       0.00       0.00         15,200.00       89.91       179.76       8,730.43       -6,944.35       -459.07       6,956.97       0.00       0.00       0.00         15,300.00       89.91       179.76       8,730.59       -7,044.35       -458.65       7,056.88       0.00       0.00       0.00         15,400.00       89.91       179.76       8,730.76       -7,144.35       -458.23       7,156.79       0.00       0.00       0.00         15,500.00       89.91       179.76       8,730.92       -7,244.35       -457.81       7,256.69       0.00       0.00       0.00         15,600.00       89.91       179.76       8,731.08       -7,344.35       -457.39       7,356.60       0.00       0.00       0.00										
15,200.00     89.91     179.76     8,730.43     -6,944.35     -459.07     6,956.97     0.00     0.00     0.00       15,300.00     89.91     179.76     8,730.59     -7,044.35     -458.65     7,056.88     0.00     0.00     0.00       15,400.00     89.91     179.76     8,730.76     -7,144.35     -458.23     7,156.79     0.00     0.00     0.00       15,500.00     89.91     179.76     8,730.92     -7,244.35     -457.81     7,256.69     0.00     0.00     0.00       15,600.00     89.91     179.76     8,731.08     -7,344.35     -457.39     7,356.60     0.00     0.00     0.00										
15,300.00     89.91     179.76     8,730.59     -7,044.35     -458.65     7,056.88     0.00     0.00     0.00       15,400.00     89.91     179.76     8,730.76     -7,144.35     -458.23     7,156.79     0.00     0.00     0.00       15,500.00     89.91     179.76     8,730.92     -7,244.35     -457.81     7,256.69     0.00     0.00     0.00       15,600.00     89.91     179.76     8,731.08     -7,344.35     -457.39     7,356.60     0.00     0.00     0.00				,			,			
15,400.00       89.91       179.76       8,730.76       -7,144.35       -458.23       7,156.79       0.00       0.00       0.00         15,500.00       89.91       179.76       8,730.92       -7,244.35       -457.81       7,256.69       0.00       0.00       0.00         15,600.00       89.91       179.76       8,731.08       -7,344.35       -457.39       7,356.60       0.00       0.00       0.00	,									
15,500.00     89.91     179.76     8,730.92     -7,244.35     -457.81     7,256.69     0.00     0.00     0.00       15,600.00     89.91     179.76     8,731.08     -7,344.35     -457.39     7,356.60     0.00     0.00     0.00	,									
15,600.00 89.91 179.76 8,731.08 -7,344.35 -457.39 7,356.60 0.00 0.00 0.00										
	15,500.00	89.91	179.76	8,730.92	-7,244.35	-457.81	7,256.69	0.00	0.00	0.00
15 700 00	15,600.00	89.91	179.76	8,731.08	-7,344.35	-457.39	7,356.60	0.00	0.00	0.00
10,100.00 00.01 110.10 0,101.27 -1,777.00 1,400.01 0.00 0.00 0.00	15,700.00	89.91	179.76	8,731.24	-7,444.35	-456.98	7,456.51	0.00	0.00	0.00

# Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)
Site: Sterling Silver MDP1 33\_4 Federal Com
Well: Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

Well Sterling Silver MDP1 33\_4 Federal Com

22H

RKB 26.5' @ 3399.50ft RKB 26.5' @ 3399.50ft

Grid

Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,800.00 15,900.00 16,000.00	89.91 89.91 89.91	179.76 179.76 179.76	8,731.41 8,731.57 8,731.73	-7,544.34 -7,644.34 -7,744.34	-456.56 -456.14 -455.72	7,556.41 7,656.32 7,756.23	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,731.89 8,732.06 8,732.22 8,732.38 8,732.54	-7,844.34 -7,944.34 -8,044.34 -8,144.34 -8,244.34	-455.30 -454.88 -454.46 -454.05 -453.63	7,856.13 7,956.04 8,055.95 8,155.85 8,255.76	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
16,600.00 16,700.00 16,800.00 16,900.00 17,000.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,732.71 8,732.87 8,733.03 8,733.20 8,733.36	-8,344.34 -8,444.34 -8,544.33 -8,644.33 -8,744.33	-453.21 -452.79 -452.37 -451.95 -451.54	8,355.67 8,455.57 8,555.48 8,655.38 8,755.29	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
17,100.00 17,200.00 17,300.00 17,400.00 17,500.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,733.52 8,733.68 8,733.85 8,734.01 8,734.17	-8,844.33 -8,944.33 -9,044.33 -9,144.33 -9,244.33	-451.12 -450.70 -450.28 -449.86 -449.44	8,855.20 8,955.10 9,055.01 9,154.92 9,254.82	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
17,600.00 17,700.00 17,800.00 17,900.00 18,000.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,734.33 8,734.50 8,734.66 8,734.82 8,734.98	-9,344.33 -9,444.33 -9,544.32 -9,644.32 -9,744.32	-449.02 -448.61 -448.19 -447.77 -447.35	9,354.73 9,454.64 9,554.54 9,654.45 9,754.36	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
18,100.00 18,200.00 18,300.00 18,400.00 18,500.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,735.15 8,735.31 8,735.47 8,735.63 8,735.80	-9,844.32 -9,944.32 -10,044.32 -10,144.32 -10,244.32	-446.93 -446.51 -446.10 -445.68 -445.26	9,854.26 9,954.17 10,054.08 10,153.98 10,253.89	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
18,600.00 18,700.00 18,800.00 18,900.00 19,000.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,735.96 8,736.12 8,736.28 8,736.45 8,736.61	-10,344.32 -10,444.32 -10,544.31 -10,644.31 -10,744.31	-444.84 -444.42 -444.00 -443.58 -443.17	10,353.80 10,453.70 10,553.61 10,653.52 10,753.42	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,100.00 19,200.00 19,300.00 19,400.00 19,500.00	89.91 89.91 89.91 89.91	179.76 179.76 179.76 179.76 179.76	8,736.77 8,736.94 8,737.10 8,737.26 8,737.42	-10,844.31 -10,944.31 -11,044.31 -11,144.31 -11,244.31	-442.75 -442.33 -441.91 -441.07	10,853.33 10,953.24 11,053.14 11,153.05 11,252.95	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
19,547.26	89.91	179.76	8,737.50	-11,291.57	-440.88	11,300.17	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 (Sterling Silver - plan hits target cent - Point	0.00 er	0.00	8,720.50	-838.23	-484.62	461,626.20	710,095.02	32.267905	-103.787344
PBHL (Sterling Silver - plan hits target cent - Point	0.00 er	0.00	8,737.50	-11,291.57	-440.88	451,173.49	710,138.76	32.239172	-103.787374

# Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS** 

Project: PRD NM DIRECTIONAL PLANS (NAD 1983) Site: Sterling Silver MDP1 33\_4 Federal Com Well: Sterling Silver MDP1 33\_4 Federal Com 22H

Wellbore: Wellbore #1 Design: Permitting Plan Local Co-ordinate Reference:

Well Sterling Silver MDP1 33\_4 Federal Com

22H

RKB 26.5' @ 3399.50ft TVD Reference: MD Reference: RKB 26.5' @ 3399.50ft North Reference:

Grid

**Survey Calculation Method:** Minimum Curvature

ormations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	431.50	431.50	RUSTLER				
	786.50	786.50	SALADO				
	2,720.50	2,720.50	CASTILE				
	4,213.50	4,213.50	DELAWARE				
	4,239.50	4,239.50	BELL CANYON				
	5,108.50	5,108.50	CHERRY CANYON				
	6,415.32	6,401.50	BRUSHY CANYON				
	8,065.41	8,026.50	BONE SPRING				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
5,173.00	5,173.00	0.00	0.00	Build 2°/100'
5,673.19	5,670.65	-23.81	-36.47	Hold 10° Tangent
8,248.89	8,207.19	-268.44	-411.11	KOP, Build & Turn 10°/100'
9,093.82	8,720.50	-838.23	-484.62	Landing Point
19,547.26	8,737.50	-11,291.57	-440.88	TD at 19547.26' MD

# OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

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

### 1. SUMMARY OF REQUEST:

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

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

# 2. Description of Operations

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

# Oxy USA Inc. - STERLING SILVER MDP1 33\_4 FEDERAL COM 22H Drill Plan

# 1. Geologic Formations

TVD of Target (ft):	8737	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19547	Deepest Expected Fresh Water (ft):	432

# **Delaware Basin**

Formation	MD-RKB (ft)	TVD-RKB (ft)	<b>Expected Fluids</b>
Rustler	432	432	
Salado	787	787	Salt
Castile	2721	2721	Salt
Delaware	4214	4214	Oil/Gas/Brine
Bell Canyon	4240	4240	Oil/Gas/Brine
Cherry Canyon	5109	5109	Oil/Gas/Brine
Brushy Canyon	6415	6402	Losses
Bone Spring	8065	8027	Oil/Gas
Bone Spring 1st			Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

# 2. Casing Program

		N	ID	T\	/D				
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	17.5	0	492	0	492	13.375	54.5	J-55	BTC
Salt	12.25	0	4314	0	4314	9.625	40	L-80 HC	втс
Intermediate	8.75	0	8149	0	8107	7.625	26.4	L-80 HC	Wedge 425
Production	6.75	0	19547	0	8737	5.5	20	P-110	Wedge 461

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

All Casing SF Values will meet or							
exceed those below							
SF	SF	<b>Body SF</b>	Inint SE				
٥.	٥.	Douy 31	JOILL 31				
Collapse		Tension					

# **Annular Clearance Variance Request**

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

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

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3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	514	1.33	14.8	100%	1	Circulate	Class C+Accel.
Int.1	1	Intermediate - Tail	141	1.33	14.8	20%	3,814	Circulate	Class C+Accel.
Int.1	1	Intermediate - Lead	1005	1.73	12.9	50%	-	Circulate	Class Pozz+Ret.
Int. 2	1	Intermediate 1S - Tail	93	1.68	13.2	5%	6,665	Circulate	Class C+Ret., Disper.
Int. 2	2	Intermediate 2S - Tail BH	204	1.71	13.3	25%	3,814	Bradenhead Post-Frac	Class C+Accel.
Prod.	1	Production - Tail	674	1.84	13.3	25%	7,649	Circulate	Class C+Ret.

# **Offline Cementing Request**

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

# **Bradenhead CBL Request**

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

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4. Pressure Control Equipment

BOP installed and		Min.					TVD Depth
tested before drilling	Size?	Required		Туре	✓	Tested to:	(ft) per
which hole?		WP					Section:
		5M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
12.25" Hole	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	4314
		DIVI		Double Ram	✓	250 psi / 5000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
		, 5M		Blind Ram	✓		
8.75" Hole	13-5/8"		Pipe Ram			250 mai / 5000 mai	8107
				Double Ram	✓	250 psi / 5000 psi	
			Other*				
		5M		Annular	✓	70% of working pressure	
6.75" Hole				Blind Ram	✓		
	13-5/8"	5M		Pipe Ram		250 psi / 5000 psi	8737
		SIVI		Double Ram		250 psi / 5000 psi	
			Other*				

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

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

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

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

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

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

Are anchors required by manufacturer?

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

See attached schematics.

# **BOP Break Testing Request**

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

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

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5. Mud Program

	Depth		Depth - TVD			Waight		Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	Weight (ppg)	Viscosity	Loss
Surface	0	492	0	492	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate 1	492	4314	492	4314	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Intermediate 2	4314	8149	4314	8107	Water-Based or Oil- Based Mud	8.0 - 10.0	38-50	N/C
Production	8149	19547	8107	8737	Water-Based or Oil- Based Mud	8.0 - 9.6	38-50	N/C

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

What will be used to monitor the	PVT/MD Totco/Visual Monitoring
loss or gain of fluid?	PV1/IVID TOLCO/VISUALIVIOLILIONING

6. Logging and Testing Procedures

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

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

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# 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4362 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	150°F

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

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

the Bi	the BLIVI.	
N	H2S is present	
Υ	H2S Plan attached	

# 8. Other facets of operation

	Yes/No
Will the well be drilled with a walking/skidding operation? If yes, describe.	
We plan to drill the 3 well pad in batch by section: all surface sections, intermediate	Yes
sections and production sections. The wellhead will be secured with a night cap whenever	1 68
the rig is not over the well.	
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,	Yes
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.	

Total Estimated Cuttings Volume: 1494 bbls

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 450173

### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	450173
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

### CONDITIONS

Created By	Condition	Condition Date
ronimathew	Cement is required to circulate on both surface and intermediate1 strings of casing.	
ronimathew	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	4/9/2025
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	6/1/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	6/1/2025
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	6/1/2025
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	6/1/2025
ward.rikala	Operator must comply with all of the R-111-Q requirements.	6/1/2025