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. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. <u>30-025-54305</u> 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 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 At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (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, applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 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 Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



Additional Operator Remarks

Location of Well

0. SHL: SWSW / 1222 FSL / 955 FWL / TWSP: 24S / RANGE: 32E / SECTION: 17 / LAT: 32.213547 / LONG: -103.702206 (TVD: 0 feet, MD: 0 feet) PPP: SENW / 2637 FNL / 1739 FWL / TWSP: 24S / RANGE: 32E / SECTION: 8 / LAT: 32.231981 / LONG: -103.699696 (TVD: 9743 feet, MD: 18421 feet) PPP: SESW / 0 FNL / 1735 FWL / TWSP: 24S / RANGE: 32E / SECTION: 8 / LAT: 32.224703 / LONG: -103.699696 (TVD: 9758 feet, MD: 15574 feet) PPP: SENW / 2635 FNL / 1733 FWL / TWSP: 24S / RANGE: 32E / SECTION: 17 / LAT: 32.217462 / LONG: -103.699696 (TVD: 9772 feet, MD: 12940 feet) PPP: SESW / 100 FSL / 1730 FWL / TWSP: 24S / RANGE: 32E / SECTION: 20 / LAT: 32.210477 / LONG: -103.699697 (TVD: 9785 feet, MD: 10401 feet) BHL: NENW / 20 FNL / 1730 FWL / TWSP: 24S / RANGE: 32E / SECTION: 8 / LAT: 32.23905 / LONG: -103.699212 (TVD: 9730 feet, MD: 20841 feet)

BLM Point of Contact

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

Email: TCMOLINA@BLM.GOV

	<u>C-102</u> En				State of New nerals & Natura	Revised July 9, 2				
	it Electronica	,		OIL CONSERVATION DIVISION —					✓ Initial Su	shmittal
Via O	CD Permitting							Submittal	☐ Amended	
								Type:	☐ As Drille	
					WELL LOCAT	ION INFORMATION				
API N	Number 30-	025-5430	Pool Code 96229			Pool Name MESA	VER	DE; E	BONE S	SPRING
Prope	rty Code 32	0828	_	ame ME	l .	RDE BS UN		<u> </u>	Well Number	
ogri 1669	ID No. 6		Operator N	ame OX	Y USA I	INC.			Ground Lev 3567.2'	el Elevation
Surfac	ce Owner: 🗆	State ☐ Fee ☐	Tribal 🗹 Fed	leral		Mineral Owner:	State Fee	🗆 Tribal 🗹	Federal	
					Surfa	ace Location				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
M	17	24S	32E		1222'FSI	∟ 955'FWL	32.213	3547 -1	103.702206	LEA
			- I	II.	Bottom	Hole Location	I.	L .		L
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
C	8	24S	32E		20'FNL	1730'FWL	32.239	9173 -1	103.699694	LEA
	•									
Dedic 320	ated Acres	Infill or Def	ining Well	Defining	Well API	Overlapping Spacing	Unit (Y/N)	Consolidat	tion Code	
Order	Numbers.	•				Well setbacks are und	der Common (Ownership:	□Yes □No	
					Kick O	ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
C	20	24S	32E		300'FNI	_ 1730'FWL	32.209	9377 -1	103.699695	LEA
			- I	II.	First Ta	ke Point (FTP)	I.	L .		L
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	I	Longitude	County
Ν	17	24S	32E		100'FSI	_ 1730'FWL	32.210) 477 -1	103.699697	LEA
	l	I .	1	II.	Last Ta	ke Point (LTP)	1			l
UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude		Longitude	County
В	8	24S	32E		100'FNI	_ 1730'FWL	32.238	3953 -1	103.699695	LEA
	l	1	1	II.	1	1	1			<u>'</u>
Unitiz	zed Area or A	rea of Uniform	Interest	Spacing	Unit Type 🗹 Horiz	ontal Vertical	Grou	nd Floor Ele	vation:	
OBER	ATOR CERT	FIFICATIONS			1	CURVEYOR CERTIFIC	CATIONG			
		ΓΙΓΙCATIONS				SURVEYOR CERTIFIC	LATIONS		15	UDUELIOS
my kno organi includi locatio interes	owledge and beization either oving the propose on pursuant to a	lief, and, if the we wns a working inte d bottom hole lock contract with an ary pooling agree	ll is a vertical or crest or unleased ation or has a rig owner of a work	directional v mineral inte tht to drill thi ing interest o	rest in the land	I hereby certify that the we surveys made by me or und my belief.			I hereby certify the on this plat was pactual surveys mas supervision, and correct to the best	URVEYOR TIFICATION at the well location shown olotted from field notes of the by me or under my that the same is true and to f my belief. me 05, 2023
cmeret	a oy ine uivist01								Date of Survey	110 00, 2020

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

Leslie T. Reeves

1/27/2025

Signature

LESLIE REEVES

LESLIE_REEVES@oxy.com

Email Address

Printed Name

ature and Seal of Professional Surveyor:

Certificate Number:

Date of Survey

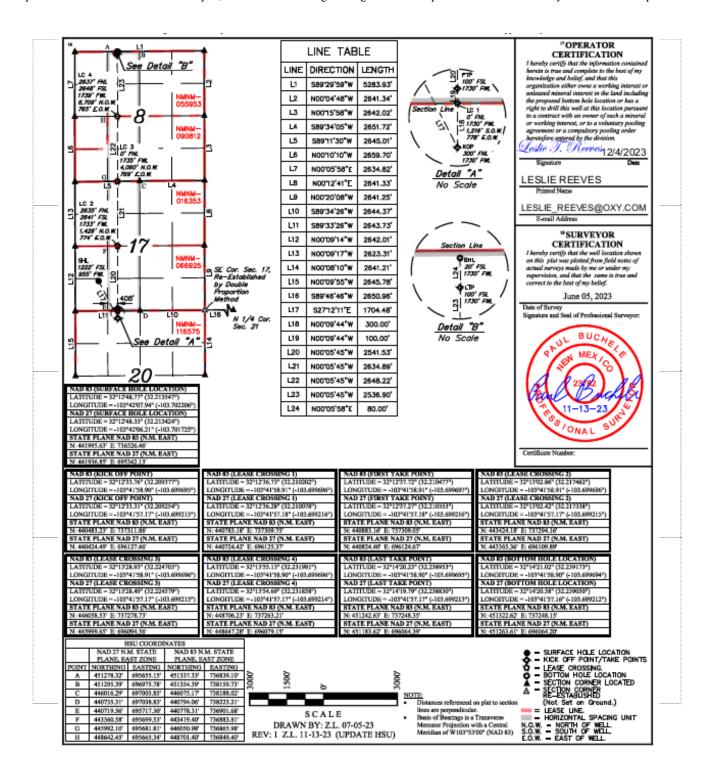
Signature and Seal of Professional Surveyor

Certificate Number

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.

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 Mana	agement Plan m	ust be submitted wi	ith each Applica	tion for Permit to I	Orill (AP	PD) for a n	ew or	recompleted well.
			1 – Plan D ffective May 25.					
I. Operator: OXY U	SA INC.		OGRID: <u>16</u>	6696		_ Date: _	0 1/	2 7/ 2 5
II. Type: ☑ Original	☐ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D((6)(b) NI	МАС □ О	ther.	
If Other, please describ	pe:							
III. Well(s): Provide the recompleted from a					wells pro	posed to l	oe dril	lled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D		Anticipated roduced Water BBL/D
SEE ATTACHED								BBE, B
IV. Central Delivery V. Anticipated Sched proposed to be recomp	ule: Provide the	following informa			vell or se			7.9(D)(1) NMAC] sed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement				First Production Date
SEE ATTACHED								
VI. Separation Equip VII. Operational Pra Subsection A through VIII. Best Managemed during active and plans	nctices: Attack F of 19.15.27.8 ent Practices:	ch a complete descr NMAC. Attach a comple	ription of the ac	tions Operator wil	l take to	comply v	vith tl	ne requirements of

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

✓ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

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

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

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

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

XIV. Confidentiality:

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

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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: Leslie T. Reeves							
Printed Name: LESLIE REEVES							
Title: REGULATORY MANAGER							
E-mail Address: LESLIE_REEVES@oxy.com							
Date: 1/27/2025							
Phone: 713-497-2492							
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)							
Approved By:							
Title:							
Tiuc.							
Approval Date:							
Approval Date:							
Approval Date:							
Approval Date:							

III. Well(s

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
Mesa Verde BS UNIT 55H	Pending	M-17-24S-32E	1222' FSL 925' FWL	907	2662	3090
Mesa Verde BS UNIT 56H	Pending	M-17-24S-32E	1222'FSL 955'FWL	907	2662	3090
Mesa Verde BS UNIT 57H	Pending	P-17-24S-32E	996' FSL 1178' FEL	907	2662	3090
Mesa Verde BS UNIT 58H	Pending	P-17-24S-32E	996' FSL 1148' FEL	907	2662	3090

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Mesa Verde BS UNIT 55H	Pending	11/23/2025	1/23/2026	04/30/2026	06/26/2026	06/29/2026
Mesa Verde BS UNIT 56H	Pending	12/3/2025	1/2/2026	04/30/2026	06/26/2026	06/29/2026
Mesa Verde BS UNIT 57H	Pending	12/9/2025	1/9/2026	05/28/2026	07/02/2026	07/08/2026
Mesa Verde BS UNIT 58H	Pending	12/14/2025	12/30/2025	05/28/2026	07/02/2026	07/08/2026

Part VI. Separation Equipment

Operator will size the flowback separator to handle 11,000 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 Enlink and is connected to Enlink low pressure located in Lea County, New Mexico. OXY USA INC. ("OXY") provides (periodically)

to Enlink a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enlink have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the Lobo Processing Plant located in Loving County, Texas.

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

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

Compressed Natural Gas - On lease

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

NGL Removal - On lease

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

Oxy USA Inc. - Mesa Verde BS Unit 56H Drill Plan

1. Geologic Formations

TVD of Target (ft):	9785	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	20842	Deepest Expected Fresh Water (ft):	851

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	851	851	
Salado	1177	1177	Salt
Castile	3110	3110	Salt
Delaware	4726	4673	Oil/Gas/Brine
Bell Canyon	4755	4701	Oil/Gas/Brine
Cherry Canyon	5684	5584	Oil/Gas/Brine
Brushy Canyon	7062	6895	Losses
Bone Spring	8855	8600	Oil/Gas
Bone Spring 1st	10057	9687	Oil/Gas
Bone Spring 2nd			Oil/Gas
Bone Spring 3rd			Oil/Gas
Wolfcamp			Oil/Gas
Penn			Oil/Gas
Strawn			Oil/Gas

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

2. Casing Program

	V	ID	T\	/D					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	911	0	911	10.75	45.5	J-55	BTC
Intermediate	9.875	0	9232	0	8954	7.827	39.3	P110S	Wedge 463
Production	6.75	9032	20842	8754	9785	5.5	20	P-110	Wedge 461

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

Ī	All Casing SF Values will meet or exceed								
	those below								
ſ	SF SF		Body SE	Joint SF					
- 1	3F	31	Douy 3F	JUILL 3F					
	Collapse		•	Tension					

*If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

	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 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
	•
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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Occidental - Permian New Mexico Mesa Verde BS Unit 56H

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	762	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	242	1.65	13.2	5%	7,312	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	1041	1.71	13.3	25%	1	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	891	1.38	13.2	25%	9,032	Circulate	Class H+Ret., Disper., Salt

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.

Cement Top and Liner Overlap

• Oxy is requesting permission to have minimum fill of cement behind the 5-1/2" production liner to be 200 ft into previous casing string

The reason for this is so that we can come back and develop shallower benches from the same 7.625"/7.827" mainbore in the future

Cement will be brought to the top of this liner hanger

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Occidental - Permian New Mexico Mesa Verde BS Unit 56H

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	1	Tested to:	Deepest TVD Depth (ft) per Section:	
		5M		Annular	✓	70% of working pressure	8954	
	13-5/8"	5M		Blind Ram	✓			
9.875" Hole				Pipe Ram		250 psi / 5000 psi		
			Double Ram		√	230 psi / 3000 psi		
			Other*					
	13-5/8"		5M		Annular	✓	70% of working pressure	
		5M		Blind Ram				
6.75" Hole			Pipe Ram Double Ram			250 psi / 5000 psi	9785	
					√	230 psi / 3000 psi		
			Other*					

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

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

^{*}Specify if additional ram is utilized

Occidental - Permian New Mexico

Mesa Verde BS Unit 56H

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.

Occidental - Permian New Mexico Mesa Verde BS Unit 56H

5. Mud Program

Section	Depth - MD		Depth - TVD		Tymo	Weight	Viscosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	911	0	911	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	911	9232	911	8954	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	9232	20842	8954	9785	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?	1 V 1/1VID TOLCO/ VISUAL IVIOLITORING

6. Logging and Testing Procedures

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

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

Created On: 11/10/2023 at 10:04 AM

Occidental - Permian New Mexico Mesa Verde BS Unit 56H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4885 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	159°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 BEW.		LIVI.
	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 4 well pad in batch by section: all surface sections, intermediate sections and production sections. The wellhead will be secured with a night cap whenever the rig is not over the well.	Yes
Will more than one drilling rig be used for drilling operations? If yes, describe. Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for this well. If the timing between rigs is such that Oxy would not be able to preset surface, the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the attached document for information on the spudder rig.	Yes

Total Estimated Cuttings Volume: 1495 bbls

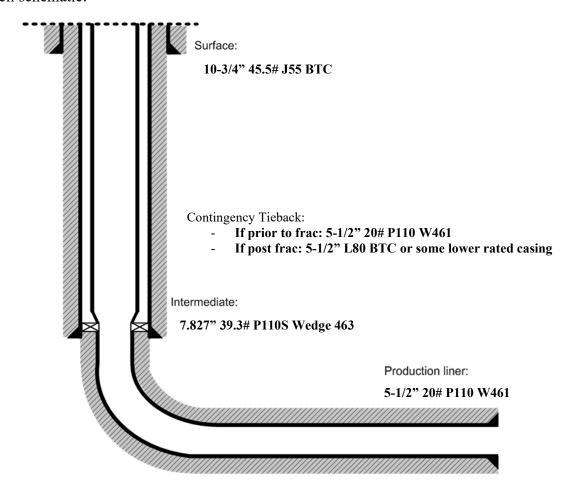
OXY USA WTP LP

Falcon SL1 Contingnecy Tieback Details

Below is a summary that describes the general operational steps to drill and complete the well.

- Drill 14-3/4" hole x 10-3/4" casing for surface section. Cement to surface.
- Drill 9-7/8" hole x 7.827" casing for intermediate section. Cement to surface.
- Drill 6-3/4" hole x 5-1/2" liner for production section. Cement to top of liner, 100' inside 7.827" shoe.
- Release drilling rig from location.
- If contingency tieback required pre-frac:
 - Move in workover rig and run a 5-1/2" 20# P110 Wedge 461 tie-back frac string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Pump hydraulic fracture job.
 - Flowback and produce well.
- If contingency tieback required post-frac:
 - o Move in workover rig and run a 5-1/2" L80 BTC or lesser rated tie-back string and seal assembly. Tie into liner hanger Polished Bore Receptacle (PBR) with seal assembly.
 - o Return well to production.

General well schematic:



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.

BOP Break Testing Request

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

BOP break test under the following conditions:

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

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

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

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

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

See supporting information below:

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

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

Background

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

Supporting Rationale

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

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

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

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

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

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

Procedures

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

Notes:

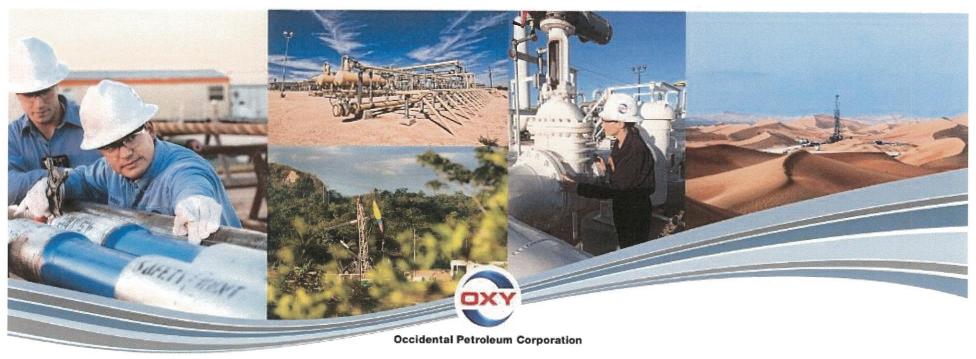
- a. If any parts of the BOP are changed out or any additional breaks are made during the skidding operation, these affected components would also be tested as in step 10.
- b. As the choke manifold remains stationary during the skidding operation and the only break to the manifold is tested in step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

Summary

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

REQUEST FOR A VARIANCE TO BREAK TEST THE BOP

Permian Resources New Mexico



Request for Variance

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

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

Rationale for Allowing BOP Break Testing

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

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



Rationale for Allowing BOP Break Testing

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

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



Rationale for Allowing BOP Break Testing

Break testing has been approved by the BLM in the past

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

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

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



Break Testing Procedures

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

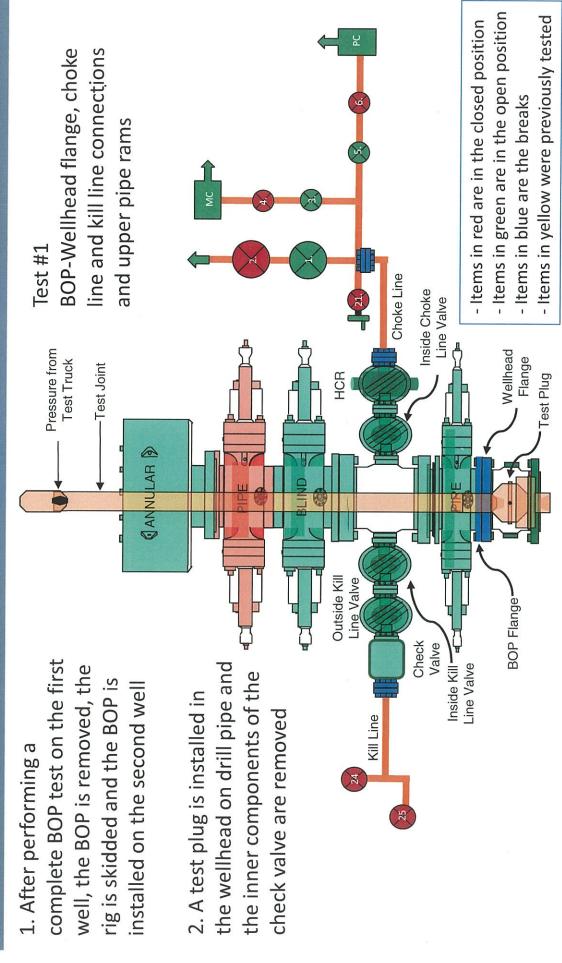


Break Testing Procedures

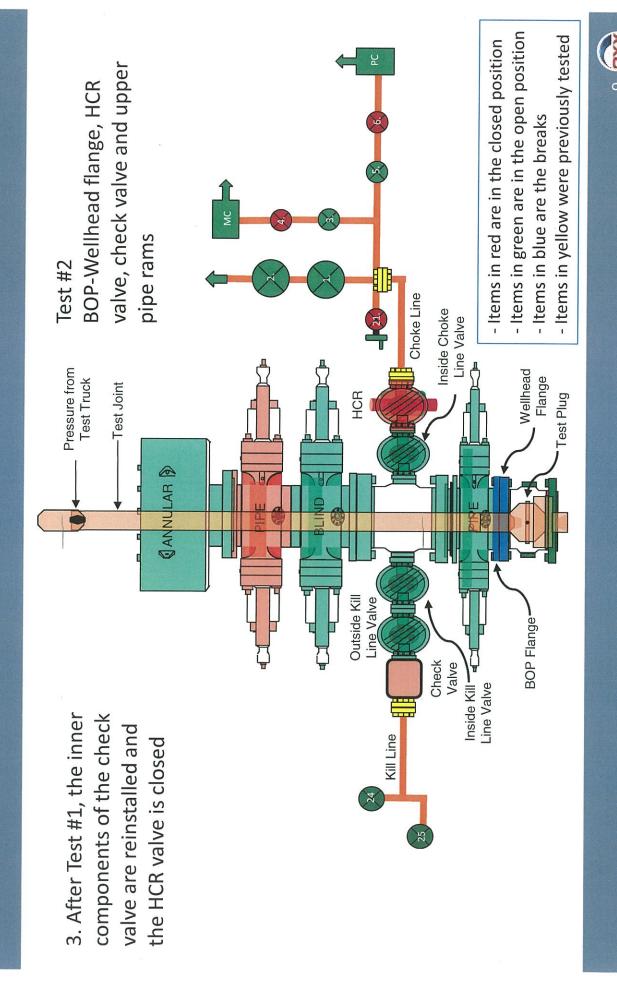
- 8) A shell test is performed against the upper pipe rams testing all three breaks
- 9) The internal parts of the check valve are reinstalled and the HCR valve is closed. A second test is performed on them
- 10)These tests consist of a 250 psi low test and a high test to the value submitted in the APD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



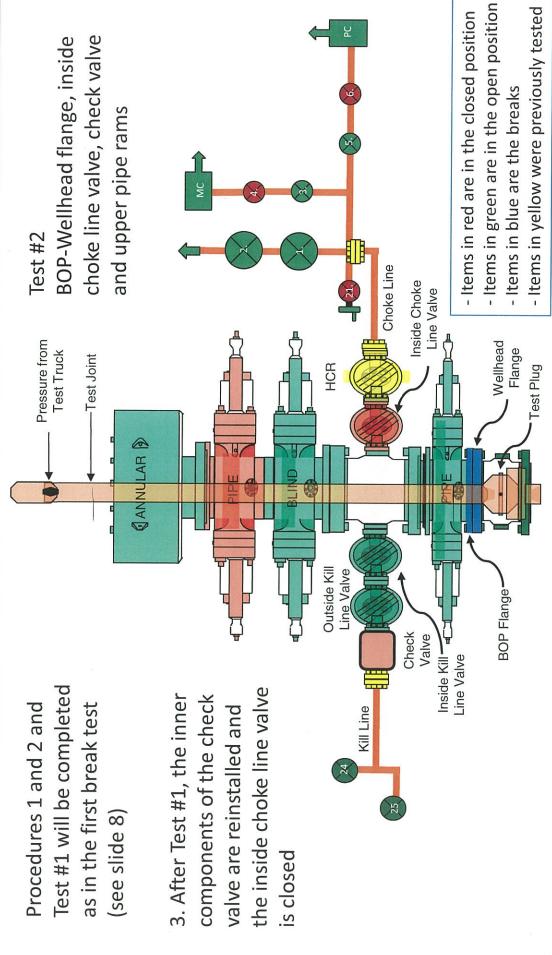
Break Testing Procedures and Tests



Break Testing Procedures and Tests

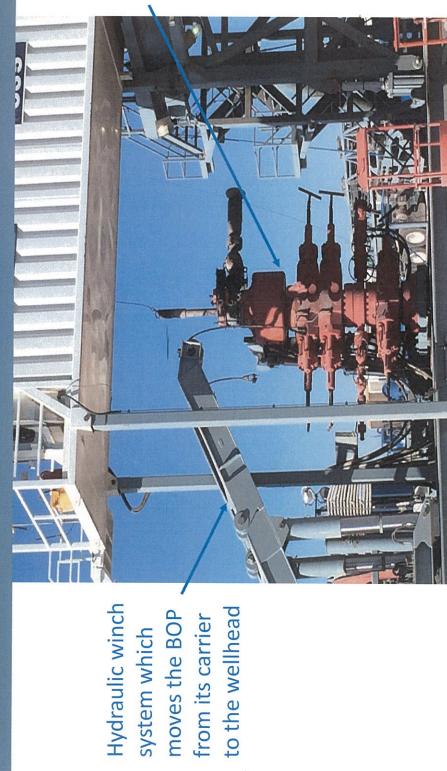


Second Break Testing Procedures and Tests



=

BOP standing in its carrier

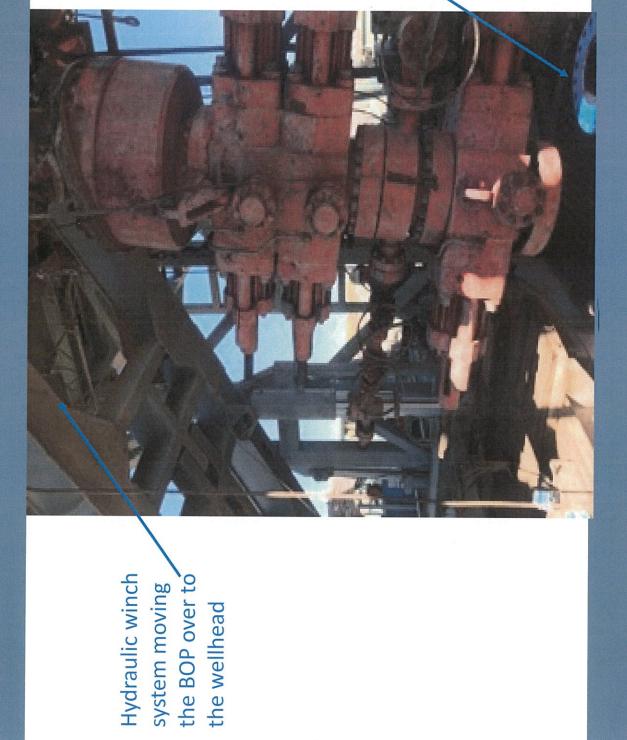


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BOP Handling System

12

Wellhead



BOP Handling System

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Hydraulic winch

Summary for Variance Request for Break Testing

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



Bradenhead Cement CBL Variance Request

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

Three string wells:

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

Four string wells:

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

Falcon SL1 Production Casing Annular Clearance Variance Request

If Production Casing Connection OD does not meet 0.422" annular clearance inside casing:

- Cement excess will be circulated from Top of Liner to surface (Cement Confirmation)
- Liner Top will be tested to confirm seal.
- If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.

Offline Cementing Variance Request

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

1. Cement Program

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

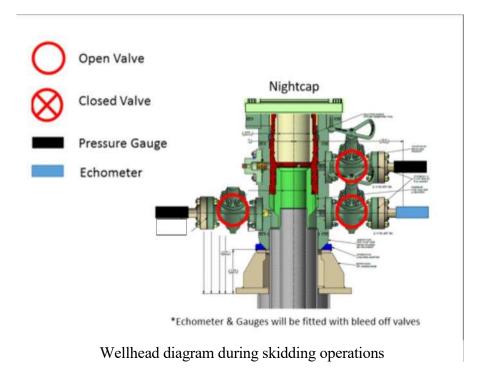
2. Offline Cementing Procedure

The operational sequence will be as follows:

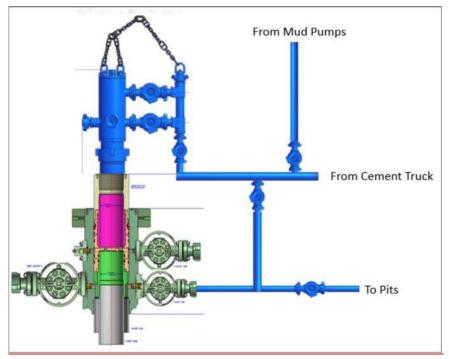
- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set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

Annular packoff with both external and internal seals





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



Wellhead diagram during offline cementing operations

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

PRD NM DIRECTIONAL PLANS (NAD 1983) Mesa Verde BS Unit Mesa Verde BS Unit 56H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

10 November, 2023

Planning Report

Database: HOPSPP

Company: **ENGINEERING DESIGNS**

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit Well: Mesa Verde BS Unit 56H

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

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum:

Map Zone: New Mexico Eastern Zone System Datum: Mean Sea Level

Using geodetic scale factor

Site Mesa Verde BS Unit

Site Position: Northing: 441,628.38 usft 32.212703 Latitude: From: Мар Easting: 726,045.01 usft Longitude: -103.736102

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Mesa Verde BS Unit 56H **Well Position** +N/-S 0.00 ft Northing: 441.995.63 usf Latitude: 32.213547 +E/-W 736,526.46 usf -103.702206 0.00 ft Easting: Longitude: **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 3,567.20 ft

Grid Convergence: 0.34°

Wellbore #1 Wellbore **Model Name** Declination Magnetics Sample Date Dip Angle Field Strength (°) (°) (nT) HDGM FILE 11/10/2023 6.27 59.73 47,427.70000000

Design Permitting Plan Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 4.42

Plan Survey Tool Program Date 11/10/2023 Depth To **Depth From** (ft) (ft) Survey (Wellbore) **Tool Name** Remarks 0.00 20,841.43 Permitting Plan (Wellbore #1) B001Mb_MWD+HRGM OWSG MWD + HRGM

Plan Sections Measured Vertical Dogleg Build Turn Depth Depth +N/-S Inclination Azimuth +E/-W Rate Rate Rate **TFO** (ft) (ft) (°/100ft) (°/100ft) (°/100ft) (ft) (°) (°) (ft) (°) **Target** 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3,048.00 0.00 0.00 3,048.00 0.00 0.00 0.00 0.00 0.00 0.00 3,948.15 18.00 157.34 3,933.41 -129.43 54.03 2.00 2.00 0.00 157.34 9,332.40 18.00 157.34 9,054.05 -1,665.08 695.09 0.00 0.00 0.00 0.00 10,401.52 90.30 359.67 9,785.20 782.63 10.00 6.76 -14.75 -156.61 FTP (Mesa Verde -1,112.52 20,841.82 90.30 359.67 9,730.20 9,327.45 0.00 0.00 0.00 0.00 PBHL (Mesa Verde 721.73

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit
Well: Mesa Verde BS Unit 56H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

sigii.	r ennituring r ia								
anned 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
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
300.00		0.00	300.00		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
0.000.00	0.00	0.00	0.000.00	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
	0.00		,				0.00	0.00	
2,600.00		0.00	2,600.00	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
3,048.00	0.00	0.00	3,048.00	0.00	0.00	0.00	0.00	0.00	0.00
3.100.00	1.04	157.34	3,100.00	-0.44	0.18	-0.42	2.00	2.00	0.00
3,100.00	3.04	157.34	3,199.93	-3.72		-3.59	2.00	2.00	
-,	5.04 5.04		-,		1.55	-3.59 -9.86	2.00	2.00	0.00
3,300.00	5.04	157.34	3,299.68	-10.22	4.27	-9.80	2.00	2.00	0.00
3,400.00	7.04	157.34	3,399.12	-19.93	8.32	-19.23	2.00	2.00	0.00
3,500.00	9.04	157.34	3,498.13	-32.84	13.71	-31.68	2.00	2.00	0.00
3,600.00	11.04	157.34	3,596.59	-48.92	20.42	-47.20	2.00	2.00	0.00
3,700.00	13.04	157.34	3,694.39	-68.17	28.46	-65.77	2.00	2.00	0.00
3,800.00	15.04	157.34	3,791.39	-90.56	37.80	-87.37	2.00	2.00	0.00
			*						
3,900.00	17.04	157.34	3,887.50	-116.06	48.45	-111.97	2.00	2.00	0.00
3,948.15	18.00	157.34	3,933.41	-129.43	54.03	-124.88	2.00	2.00	0.00
4,000.00	18.00	157.34	3,982.72	-144.22	60.21	-139.15	0.00	0.00	0.00
4,100.00	18.00	157.34	4,077.83	-172.74	72.11	-166.67	0.00	0.00	0.00
4,200.00	18.00	157.34	4,172.93	-201.26	84.02	-194.18	0.00	0.00	0.00
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4,300.00	18.00	157.34	4,268.03	-229.79	95.92	-221.70	0.00	0.00	0.00
4,400.00	18.00	157.34	4,363.14	-258.31	107.83	-249.22	0.00	0.00	0.00
4,500.00	18.00	157.34	4,458.24	-286.83	119.74	-276.74	0.00	0.00	0.00
4,600.00	18.00	157.34	4,553.35	-315.35	131.64	-304.25	0.00	0.00	0.00
4,700.00	18.00	157.34	4,648.45	-343.87	143.55	-331.77	0.00	0.00	0.00
4,800.00	18.00	157.34	4,743.56	-372.39	155.46	-359.29	0.00	0.00	0.00
4,900.00	18.00	157.34	4,838.66	-400.91	167.36	-386.81	0.00	0.00	0.00
5,000.00	18.00	157.34	4,933.76	-429.43	179.27	-414.32	0.00	0.00	0.00
5,100.00	18.00	157.34	5,028.87	-457.95	191.17	-441.84	0.00	0.00	0.00
5,200.00	18.00	157.34	5,123.97	-486.48	203.08	-469.36	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit
Well: Mesa Verde BS Unit 56H

Wellbore: Wellbore #1
Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.00	18.00	157.34	5,219.08	-515.00	214.99	-496.88	0.00	0.00	0.00
5,400.00	18.00	157.34	5,314.18	-543.52	226.89	-524.39	0.00	0.00	0.00
5,500.00	18.00	157.34	5,409.28	-572.04	238.80	-551.91	0.00	0.00	0.00
5,600.00	18.00	157.34	5,504.39	-600.56	250.71	-579.43	0.00	0.00	0.00
5,700.00	18.00	157.34	5,599.49	-629.08	262.61	-606.95	0.00	0.00	0.00
5,800.00	18.00	157.34	5,694.60	-657.60	274.52	-634.46	0.00	0.00	0.00
5,900.00	18.00	157.34	5,789.70	-686.12	286.42	-661.98	0.00	0.00	0.00
6,000.00	18.00	157.34	5,884.80	-714.64	298.33	-689.50	0.00	0.00	0.00
6,100.00 6,200.00	18.00 18.00	157.34 157.34	5,979.91 6,075.01	-743.17 -771.69	310.24 322.14	-717.02 -744.53	0.00 0.00	0.00 0.00	0.00 0.00
6,300.00	18.00	157.34	6,170.12	-800.21	334.05	-772.05	0.00	0.00	0.00
6,400.00	18.00	157.34	6,265.22	-828.73	345.96	-799.57	0.00	0.00	0.00
6,500.00	18.00	157.34	6,360.32	-857.25	357.86	-827.09	0.00	0.00	0.00
6,600.00 6,700.00	18.00 18.00	157.34 157.34	6,455.43 6,550.53	-885.77 -914.29	369.77 381.67	-854.61 -882.12	0.00 0.00	0.00 0.00	0.00 0.00
6,800.00	18.00	157.34	6,645.64	-942.81	393.58	-909.64	0.00	0.00	0.00
6,900.00	18.00	157.34	6,740.74	-971.33	405.49	-937.16	0.00	0.00	0.00
7,000.00 7,100.00	18.00 18.00	157.34 157.34	6,835.85 6,930.95	-999.86 -1,028.38	417.39 429.30	-964.68 -992.19	0.00 0.00	0.00 0.00	0.00 0.00
7,100.00	18.00	157.34	7,026.05	-1,026.36 -1,056.90	429.30 441.21	-1,019.71	0.00	0.00	0.00
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7,300.00	18.00	157.34	7,121.16	-1,085.42	453.11	-1,047.23	0.00	0.00	0.00
7,400.00	18.00	157.34	7,216.26 7,311.37	-1,113.94	465.02	-1,074.75	0.00	0.00 0.00	0.00
7,500.00 7,600.00	18.00 18.00	157.34 157.34	7,311.37 7,406.47	-1,142.46 -1,170.98	476.92 488.83	-1,102.26 -1,129.78	0.00 0.00	0.00	0.00 0.00
7,700.00	18.00	157.34	7,501.57	-1,170.98	500.74	-1,129.76	0.00	0.00	0.00
7,800.00	18.00	157.34	7,596.68	-1,228.02	512.64	-1,184.82	0.00	0.00	0.00
7,900.00 8,000.00	18.00 18.00	157.34 157.34	7,691.78 7,786.89	-1,256.55 -1,285.07	524.55 536.46	-1,212.33 -1,239.85	0.00 0.00	0.00 0.00	0.00 0.00
8,100.00	18.00	157.34	7,780.89	-1,313.59	548.36	-1,267.37	0.00	0.00	0.00
8,200.00	18.00	157.34	7,977.09	-1,342.11	560.27	-1,294.89	0.00	0.00	0.00
								0.00	
8,300.00 8,400.00	18.00 18.00	157.34 157.34	8,072.20 8,167.30	-1,370.63 -1,399.15	572.17 584.08	-1,322.40 -1,349.92	0.00 0.00	0.00	0.00 0.00
8,500.00	18.00	157.34	8,262.41	-1,427.67	595.99	-1,377.44	0.00	0.00	0.00
8,600.00	18.00	157.34	8,357.51	-1,456.19	607.89	-1,404.96	0.00	0.00	0.00
8,700.00	18.00	157.34	8,452.61	-1,484.72	619.80	-1,432.48	0.00	0.00	0.00
8,800.00	18.00	157.34	8,547.72	-1,513.24	631.71	-1,459.99	0.00	0.00	0.00
8,900.00	18.00	157.34	8,642.82	-1,541.76	643.61	-1,487.51	0.00	0.00	0.00
9,000.00	18.00	157.34	8,737.93	-1,570.28	655.52	-1,515.03	0.00	0.00	0.00
9,100.00	18.00	157.34	8,833.03	-1,598.80	667.42	-1,542.55	0.00	0.00	0.00
9,200.00	18.00	157.34	8,928.14	-1,627.32	679.33	-1,570.06	0.00	0.00	0.00
9,300.00	18.00	157.34	9,023.24	-1,655.84	691.24	-1,597.58	0.00	0.00	0.00
9,332.40	18.00	157.34	9,054.05	-1,665.08	695.09	-1,606.50	0.00	0.00	0.00
9,400.00	12.09	144.45	9,119.32	-1,680.50	703.24	-1,621.24	10.00	-8.75	-19.07
9,500.00	7.05	88.46	9,218.09	-1,688.88	715.50	-1,628.65	10.00	-5.04	-55.98
9,600.00	12.34	34.12	9,316.81	-1,679.85	727.66	-1,618.70	10.00	5.29	-54.34
9,700.00	21.30	18.19	9,412.48	-1,653.68	739.35	-1,591.71	10.00	8.96	-15.93
9,800.00	30.89	11.63	9,502.20	-1,611.18	750.22	-1,548.50	10.00	9.59	-6.56
9,900.00	40.66	7.98	9,583.24	-1,553.62	759.94	-1,490.37	10.00	9.77	-3.65
10,000.00	50.51	5.55	9,653.14	-1,482.77	768.22	-1,419.09	10.00	9.85	-2.43
10,100.00	60.40	3.73	9,709.78	-1,400.77	774.80	-1,336.83	10.00	9.89	-1.82
10,200.00	70.31	2.24	9,751.43	-1,310.12	779.48	-1,246.08	10.00	9.91	-1.49
10,300.00	80.23	0.92	9,776.83	-1,213.57	782.12	-1,149.61	10.00	9.92	-1.32
10,400.00	90.15	359.68	9,785.21	-1,114.05	782.64	-1,050.35	10.00	9.92	-1.24
10,401.52	90.30	359.67	9,785.20	-1,112.52 1,014.05	782.63 782.05	-1,048.83	10.00	9.92	-1.23 0.00
10,500.00	90.30	359.67	9,784.68	-1,014.05	782.05	-950.70	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit
Well: Mesa Verde BS Unit 56H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	90.30	359.67	9,784.15	-914.05	781.47	-851.04	0.00	0.00	0.00
10,700.00	90.30	359.67	9,783.63	-814.06	780.89	-751.39	0.00	0.00	0.00
10,800.00	90.30	359.67	9,783.10	-714.06	780.30	-651.73	0.00	0.00	0.00
10,900.00	90.30	359.67	9,782.57	-614.06	779.72	-552.08	0.00	0.00	0.00
11,000.00	90.30	359.67	9,782.05	-514.07	779.14	-452.43	0.00	0.00	0.00
11,100.00	90.30	359.67	9,781.52	-414.07	778.55	-352.77	0.00	0.00	0.00
11,200.00	90.30	359.67	9,780.99	-314.07	777.97	-253.12	0.00	0.00	0.00
11,300.00	90.30	359.67	9,780.47	-214.07	777.39	-153.46	0.00	0.00	0.00
11,400.00	90.30	359.67	9,779.94	-114.08	776.80	-53.81	0.00	0.00	0.00
11,500.00	90.30	359.67	9,779.41	-14.08	776.22	45.84	0.00	0.00	0.00
11,600.00	90.30	359.67	9,778.89	85.92	775.64	145.50	0.00	0.00	0.00
11,700.00	90.30	359.67	9,778.36	185.91	775.05	245.15	0.00	0.00	0.00
11,800.00	90.30	359.67	9,777.83	285.91	774.47	344.81	0.00	0.00	0.00
11,900.00	90.30	359.67	9,777.31	385.91	773.89	444.46	0.00	0.00	0.00
12,000.00	90.30	359.67	9,776.78	485.90	773.30	544.11	0.00	0.00	0.00
12,100.00	90.30	359.67	9,776.25	585.90	772.72	643.77	0.00	0.00	0.00
12,200.00	90.30	359.67	9,775.73	685.90	772.14	743.42	0.00	0.00	0.00
12,300.00 12,400.00	90.30 90.30	359.67 359.67	9,775.20 9,774.67	785.89 885.89	771.55 770.97	843.07 942.73	0.00 0.00	0.00 0.00	0.00 0.00
12,500.00	90.30	359.67	9,774.15	985.89	770.37	1,042.38	0.00	0.00	0.00
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12,600.00 12,700.00	90.30 90.30	359.67 359.67	9,773.62 9,773.09	1,085.89 1,185.88	769.80 769.22	1,142.04 1,241.69	0.00 0.00	0.00 0.00	0.00 0.00
12,800.00	90.30	359.67	9,772.56	1,285.88	768.64	1,341.34	0.00	0.00	0.00
12,900.00	90.30	359.67	9,772.04	1,385.88	768.05	1,441.00	0.00	0.00	0.00
13,000.00	90.30	359.67	9,771.51	1,485.87	767.47	1,540.65	0.00	0.00	0.00
13,100.00	90.30	359.67	9,770.98	1,585.87	766.89	1,640.31	0.00	0.00	0.00
13,200.00	90.30	359.67	9,770.46	1,685.87	766.30	1,739.96	0.00	0.00	0.00
13,300.00	90.30	359.67	9,769.93	1,785.86	765.72	1,839.61	0.00	0.00	0.00
13,400.00	90.30	359.67	9,769.40	1,885.86	765.14	1,939.27	0.00	0.00	0.00
13,500.00	90.30	359.67	9,768.88	1,985.86	764.55	2,038.92	0.00	0.00	0.00
13,600.00	90.30	359.67	9,768.35	2,085.85	763.97	2,138.58	0.00	0.00	0.00
13,700.00	90.30	359.67	9,767.82	2,185.85	763.39	2,238.23	0.00	0.00	0.00
13,800.00	90.30	359.67	9,767.30	2,285.85	762.80	2,337.88	0.00	0.00	0.00
13,900.00	90.30	359.67	9,766.77	2,385.85	762.22	2,437.54	0.00	0.00	0.00
14,000.00	90.30	359.67	9,766.24	2,485.84	761.64	2,537.19	0.00	0.00	0.00
14,100.00	90.30	359.67	9,765.72	2,585.84	761.05	2,636.85	0.00	0.00	0.00
14,200.00	90.30	359.67	9,765.19	2,685.84	760.47	2,736.50	0.00	0.00	0.00
14,300.00	90.30	359.67	9,764.66	2,785.83	759.89	2,836.15	0.00	0.00	0.00
14,400.00	90.30	359.67	9,764.14	2,885.83	759.30	2,935.81	0.00	0.00	0.00
14,500.00	90.30	359.67	9,763.61	2,985.83	758.72	3,035.46	0.00	0.00	0.00
14,600.00	90.30	359.67	9,763.08	3,085.82	758.14	3,135.11	0.00	0.00	0.00
14,700.00	90.30	359.67	9,762.56	3,185.82	757.55	3,234.77	0.00	0.00	0.00
14,800.00 14,900.00	90.30 90.30	359.67 359.67	9,762.03 9,761.50	3,285.82 3,385.81	756.97 756.39	3,334.42 3,434.08	0.00	0.00 0.00	0.00 0.00
14,900.00	90.30	359.67 359.67	9,761.50	3,385.81	755.80	3,434.08 3,533.73	0.00 0.00	0.00	0.00
15,100.00	90.30	359.67	9,760.45	3,585.81	755.22 754.64	3,633.38	0.00	0.00	0.00
15,200.00 15,300.00	90.30 90.30	359.67 359.67	9,759.92 9,759.39	3,685.81 3,785.80	754.64 754.05	3,733.04 3,832.69	0.00 0.00	0.00 0.00	0.00 0.00
15,400.00	90.30	359.67	9,758.87	3,885.80	754.05 753.47	3,932.35	0.00	0.00	0.00
15,500.00	90.30	359.67	9,758.34	3,985.80	752.89	4,032.00	0.00	0.00	0.00
15,600.00	90.30	359.67	9,757.81	4,085.79	752.30	4,131.65	0.00	0.00	0.00
15,700.00	90.30	359.67 359.67	9,757.81	4,085.79 4,185.79	752.30 751.72	4,131.05	0.00	0.00	0.00
15,800.00	90.30	359.67	9,756.76	4,285.79	751.72	4,330.96	0.00	0.00	0.00
15,900.00	90.30	359.67	9,756.23	4,385.78	750.55	4,430.62	0.00	0.00	0.00
16,000.00	90.30	359.67	9,755.71	4,485.78	749.97	4,530.27	0.00	0.00	0.00

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit
Well: Mesa Verde BS Unit 56H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

Design:	Permitting Pla	an							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
16,100.00	90.30	359.67	9,755.18	4,585.78	749.39	4,629.92	0.00	0.00	0.00
16,200.00	90.30	359.67	9,754.65	4,685.77	748.80	4,729.58	0.00	0.00	0.00
16,300.00	90.30	359.67	9,754.13	4,785.77	748.22	4,829.23	0.00	0.00	0.00
16,400.00	90.30	359.67	9,753.60	4,885.77	747.64	4,928.88	0.00	0.00	0.00
16,500.00	90.30	359.67	9,753.07	4,985.77	747.05	5,028.54	0.00	0.00	0.00
16,600.00	90.30	359.67	9,752.55	5,085.76	746.47	5,128.19	0.00	0.00	0.00
16,700.00	90.30	359.67	9,752.02	5,185.76	745.89	5,227.85	0.00	0.00	0.00
16,800.00	90.30	359.67	9,751.49	5,285.76	745.30	5,327.50	0.00	0.00	0.00
16,900.00	90.30	359.67	9,750.97	5,385.75	744.72	5,427.15	0.00	0.00	0.00
17,000.00	90.30	359.67	9,750.44	5,485.75	744.14	5,526.81	0.00	0.00	0.00
17,100.00	90.30	359.67	9,749.91	5,585.75	743.55	5,626.46	0.00	0.00	0.00
17,200.00	90.30	359.67	9,749.39	5,685.74	742.97	5,726.12	0.00	0.00	0.00
17,300.00	90.30	359.67	9,748.86	5,785.74	742.39	5,825.77	0.00	0.00	0.00
17,400.00	90.30	359.67	9,748.33	5,885.74	741.80	5,925.42	0.00	0.00	0.00
17,500.00	90.30	359.67	9,747.81	5,985.73	741.22	6,025.08	0.00	0.00	0.00
17,600.00	90.30	359.67	9,747.28	6,085.73	740.64	6,124.73	0.00	0.00	0.00
17,700.00	90.30	359.67	9,746.75	6,185.73	740.05	6,224.39	0.00	0.00	0.00
17,800.00	90.30	359.67	9,746.22	6,285.72	739.47	6,324.04	0.00	0.00	0.00
17,900.00	90.30	359.67	9,745.70	6,385.72	738.89	6,423.69	0.00	0.00	0.00
18,000.00	90.30	359.67	9,745.17	6,485.72	738.30	6,523.35	0.00	0.00	0.00
18,100.00	90.30	359.67	9,744.64 9.744.12	6,585.72	737.72	6,623.00	0.00	0.00	0.00
18,200.00 18,300.00	90.30 90.30	359.67 359.67	9,744.12	6,685.71 6,785.71	737.14 736.55	6,722.65 6,822.31	0.00 0.00	0.00 0.00	0.00 0.00
18,400.00	90.30	359.67	9,743.06	6,885.71	735.97	6,921.96	0.00	0.00	0.00
18,500.00	90.30	359.67	9,743.00	6,985.70	735.39	7,021.62	0.00	0.00	0.00
18,600.00	90.30	359.67	9,742.01	7,085.70	734.80	7,121.27	0.00	0.00	0.00
18,700.00	90.30	359.67	9,741.48	7,185.70	734.22	7,220.92	0.00	0.00	0.00
18,800.00	90.30	359.67	9,740.96	7,285.69	733.64	7,320.58	0.00	0.00	0.00
18,900.00	90.30	359.67	9,740.43	7,385.69	733.05	7,420.23	0.00	0.00	0.00
19,000.00	90.30	359.67	9,739.90	7,485.69	732.47	7,519.89	0.00	0.00	0.00
19,100.00	90.30	359.67	9,739.38	7,585.68	731.89	7,619.54	0.00	0.00	0.00
19,200.00	90.30	359.67	9,738.85	7,685.68	731.30	7,719.19	0.00	0.00	0.00
19,300.00	90.30	359.67	9,738.32	7,785.68	730.72	7,818.85	0.00	0.00	0.00
19,400.00	90.30	359.67	9,737.80	7,885.68	730.14	7,918.50	0.00	0.00	0.00
19,500.00	90.30	359.67	9,737.27	7,985.67	729.55	8,018.16	0.00	0.00	0.00
19,600.00	90.30	359.67	9,736.74	8,085.67	728.97	8,117.81	0.00	0.00	0.00
19,700.00	90.30	359.67	9,736.22	8,185.67	728.39	8,217.46	0.00	0.00	0.00
19,800.00	90.30	359.67	9,735.69	8,285.66	727.80	8,317.12	0.00	0.00	0.00
19,900.00	90.30	359.67	9,735.16	8,385.66	727.22	8,416.77	0.00	0.00	0.00
20,000.00	90.30	359.67	9,734.63	8,485.66	726.64	8,516.43	0.00	0.00	0.00
20,100.00	90.30	359.67	9,734.11	8,585.65	726.05	8,616.08	0.00	0.00	0.00
20,200.00	90.30	359.67	9,733.58	8,685.65	725.47	8,715.73	0.00	0.00	0.00
20,300.00	90.30	359.67	9,733.05	8,785.65	724.89	8,815.39	0.00	0.00	0.00
20,400.00	90.30	359.67	9,732.53	8,885.64	724.30	8,915.04	0.00	0.00	0.00
20,500.00	90.30	359.67	9,732.00	8,985.64	723.72	9,014.69	0.00	0.00	0.00
20,600.00	90.30	359.67	9,731.47	9,085.64	723.14	9,114.35	0.00	0.00	0.00
20,700.00	90.30	359.67	9,730.95	9,185.64	722.55	9,214.00	0.00	0.00	0.00
20,800.00	90.30	359.67	9,730.42	9,285.63	721.97	9,313.66	0.00	0.00	0.00
20,841.82	90.30	359.67	9,730.20	9,327.45	721.73	9,355.33	0.00	0.00	0.00
·				•		•			

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Mesa Verde BS Unit
Well: Mesa Verde BS Unit 56H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Mesa Verde BS Unit 56H

RKB = 25' @ 3592.20ft RKB = 25' @ 3592.20ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Mesa Verde BS - plan hits target cer - Point	0.00 nter	0.00	9,730.20	9,327.45	721.73	451,322.62	737,248.15	32.239173	-103.699695
FTP (Mesa Verde BS - plan hits target cer - Point	0.00 nter	0.00	9,785.20	-1,112.52	782.63	440,883.16	737,309.05	32.210477	-103.699697

Formations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	851.20	851.20	RUSTLER			
	1,177.20	1,177.20	SALADO			
	3,110.20	3,110.20	CASTILE			
	4,726.02	4,673.20	DELAWARE			
	4,755.46	4,701.20	BELL CANYON			
	5,683.92	5,584.20	CHERRY CANYON			
	7,062.41	6,895.20	BRUSHY CANYON			
	8,855.18	8,600.20	BONE SPRING			
	10,057.05	9,687.20	BONE SPRING 1ST			

Plan Annotations						
Meas	ured	Vertical	Local Coord	linates		
Der (fi		Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
3,0	48.00	3,048.00	0.00	0.00	Build 2°/100'	
3,9	48.15	3,933.41	-129.43	54.03	Hold 18° Tangent	
9,3	32.40	9,054.05	-1,665.08	695.09	KOP, Build 10°/100'	
10,4	01.52	9,785.20	-1,112.52	782.63	Landing Point	
20,8	41.82	9,730.20	9,327.45	721.73	TD at 20841.82' MD	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
OXY USA INCORPORATED
MESA VERDE BS UNIT / 56H
1222'/S & 955'/W
20'/N & 1730'/W
Section 17, T.24 S., R.32 E.
Lea County, New Mexico

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

COA for the proposed Falcon Design (2-string + production liner):

- Tie Back of the liner should be a minimum of 200' into the previous casing
- Surface and Intermediate cement to surface should be verified visually. If cement fallback is suspected, an Echo-meter can be run to verify cement top in the intermediate and a temp log may be run in the surface interval. CBL should be run if confidence is lacking in the surface or intermediate cement job. The proposed falcon design (2-string + production liner) is only approved when surface and intermediate sections are cemented

to surface. Operator to revert to 3-string design when surface or intermediate cementing is of poor quality or not verified to surface

- Region 2 NACE certified intermediate casing must be used
- A third-party verification (such as thread rep or torque turn) must be conducted to ensure the connection makeups are to spec for the intermediate casing string exposed to frac pressures
- Corrosion inhibitors must be used in areas with corrosive production fluids
- Operator should actively monitor annulus during the completion phase. Wells should be monitored in a manner capable of identifying a casing leak or liner top packer leak, within an acceptable time frame while on production. Remedial work may be required to restore intermediate casing integrity or liner top packer integrity in a failure event
- BLM should be notified if cement is not verified to the liner top
- Surface location must NOT be located within SOPA, KPLA, Capitan Reef or High Cave Karst

Primary Casing Design:

- 1. The **10-3/4** inch surface casing shall be set at approximately **911** feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The **7.827** inch intermediate casing shall be set at approximately **9232** feet. The minimum required fill of cement behind the **7.827** inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.

Operator has proposed to pump down 10-3/4" X 7.827" annulus. Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7.827" casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

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

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

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The **5-1/2** inch production liner shall be set at approximately **20,842** feet. The minimum required fill of cement behind the **5-1/2** inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
 - A minimum 200' tie back of production liner into the intermediate casing is required. Successful liner top pressure test critical for zonal isolation check. If ICP in Bone Spring Pool and lateral landed in Wolfcamp Pool, a CBL will be ran.
- C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

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)

- If well located in Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

 BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822
- If well located in Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. 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-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.

- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test
 - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been

- done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the 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.)
- c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per 43 CFR part 3170 Subpart 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 - 4/10/2024

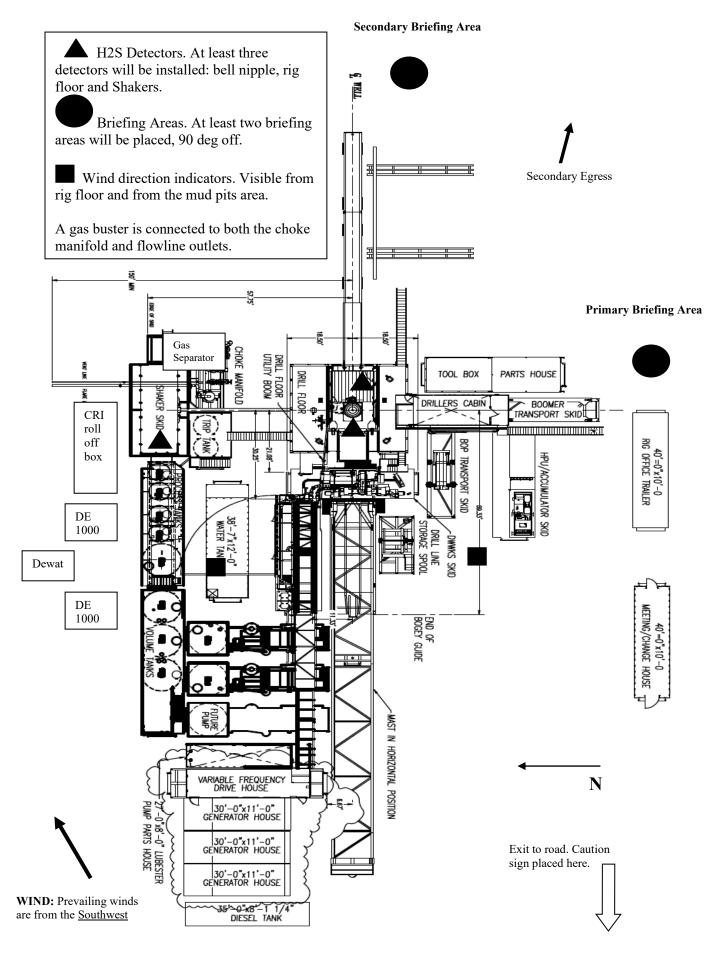


Permian Drilling Hydrogen Sulfide Drilling Operations Plan

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.

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

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

Safety personnel:

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

Taking a kick

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

Open-hole logging

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

Running casing or plugging

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

Ignition procedures

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

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

<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.	Bute

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

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

Toxic effects of hydrogen sulfide

Table ii Physical effects of hydrogen sulfide

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

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

^{*}at 15.00 psia and 60'f.

Use of self-contained breathing equipment (SCBA)

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

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

Rescue First aid for H2S poisoning

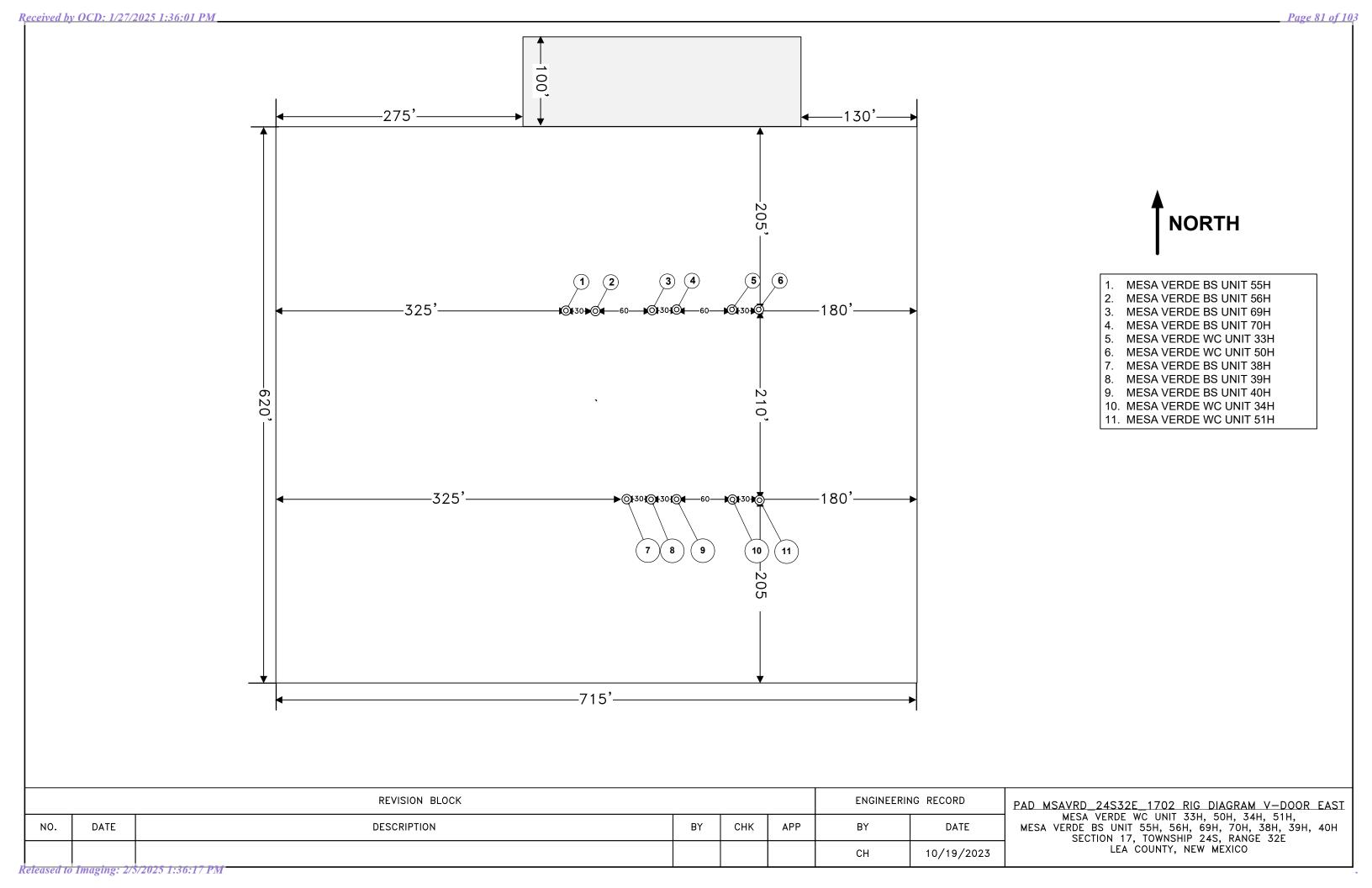
Do not panic!

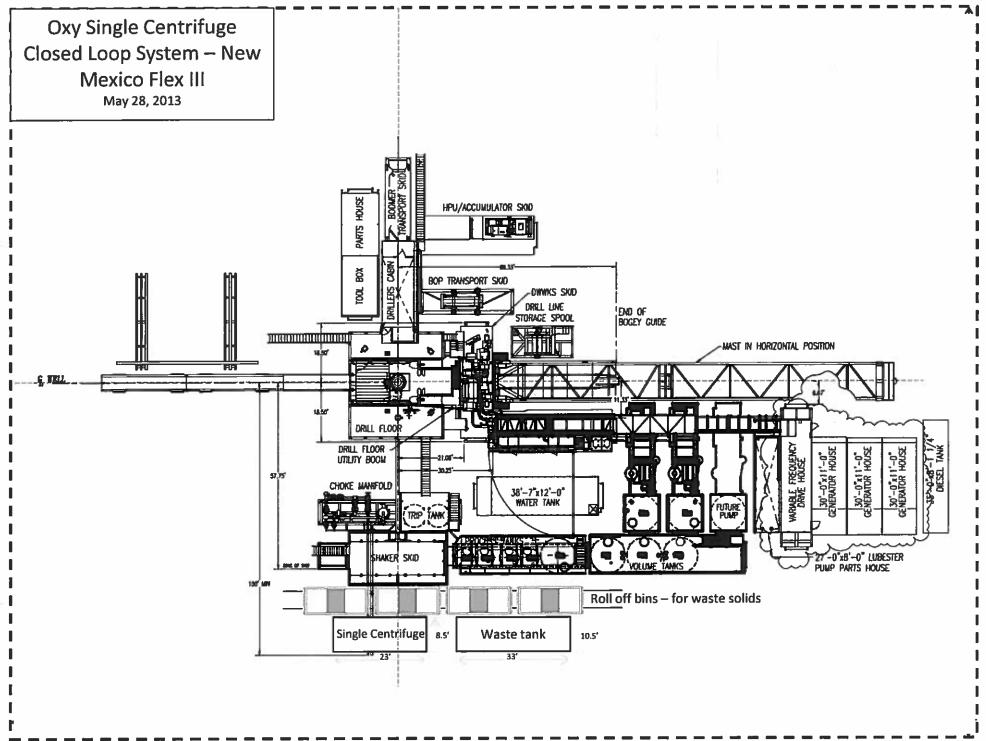
Remain calm – think!

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

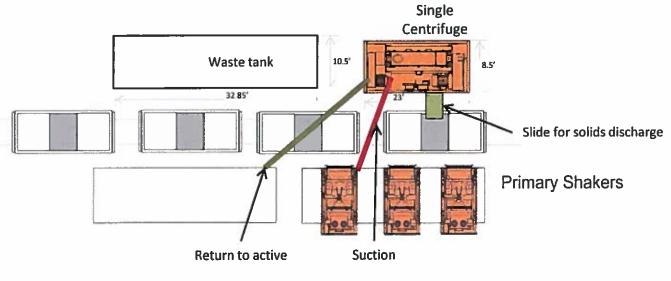
Besides basic first aid, everyone on location should have a good working knowledge of artificial respiration.

Revised CM 6/27/2012





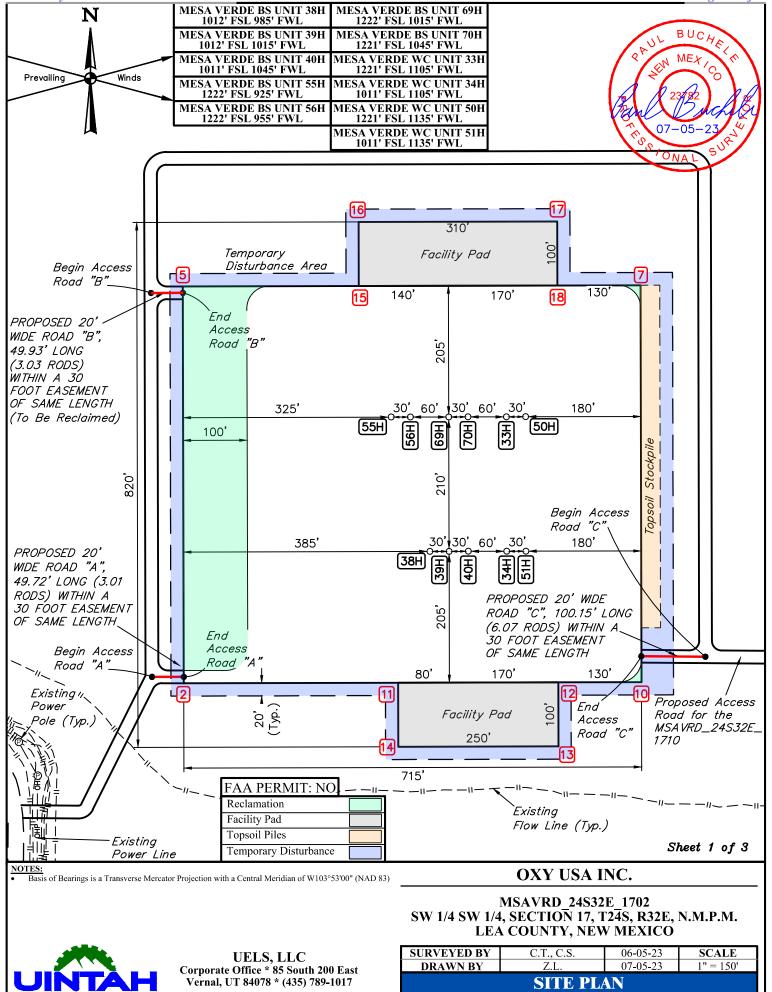








Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013



38H - EL: 3566.1'	39H - EL: 3567.1'	40H - EL: 3566.2'	
NAD 83	NAD 83	NAD 83	/m/ 23/18/2
LATITUDE = 32°12'46.69" (32.212970°)	LATITUDE = 32°12'46.69" (32.212970°)	LATITUDE = 32°12'46.69" (32.212970°)	Var. 1/2 1/2 1/2
LONGITUDE = -103°42'07.59" (-103.702108°)	LONGITUDE = -103°42'07.24" (-103.702011°)	LONGITUDE = -103°42'06.89" (-103.701914°)	Visite Disposit
NAD 27	NAD 27	NAD 27	07-05-23
LATITUDE = 32°12'46.25" (32.212847°)	LATITUDE = 32°12'46.25" (32.212847°)	LATITUDE = 32°12'46.25" (32.212847°)	NO VONAL SUP
LONGITUDE = -103°42'05.86" (-103.701627°)	LONGITUDE = -103°42'05.51" (-103.701530°)	LONGITUDE = -103°42'05.16" (-103.701433°)	SONAL SU
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STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	
N: 441727.10' E: 695373.51'	N: 441727.29' E: 695403.50'	N: 441727.49' E: 695433.49'	
55H - EL: 3567.2'	56H - EL: 3567.2'	69H - EL: 3566.4'	70H - EL: 3565.9'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°12'48.77" (32.213547°)	LATITUDE = 32°12'48.77" (32.213547°)	LATITUDE = 32°12'48.77" (32.213547°)	LATITUDE = 32°12'48.77" (32.213548°)
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N: 441995.44' E: 736496.47'	N: 441995.63' E: 736526.46'	N: 441996.03' E: 736586.45'	N: 441996.23' E: 736616.44'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 441936.65' E: 695312.14'	N: 441936.85' E: 695342.13'	N: 441937.25' E: 695402.12'	N: 441937.44' E: 695432.11'
33H - EL: 3565.9'	34H - EL: 3565.9'	50H - EL: 3565.4'	51H - EL: 3565.8'
NAD 83	NAD 83	NAD 83	NAD 83
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NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°12'48.33" (32.213424°)	LATITUDE = 32°12'46.25" (32.212847°)	LATITUDE = 32°12'48.33" (32.213424°)	LATITUDE = 32°12'46.25" (32.212847°)
LONGITUDE = -103°42'04.46" (-103.701240°)	LONGITUDE = -103°42'04.46" (-103.701239°)	LONGITUDE = -103°42'04.11" (-103.701143°)	LONGITUDE = -103°42'04.11" (-103.701142°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 441996.63' E: 736676.43'	N: 441786.67' E: 736677.82'	N: 441996.83' E: 736706.43'	N: 441786.87' E: 736707.82'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 441937.84' E: 695492.10'	N: 441727.89' E: 695493.48'	N: 441938.04' E: 695522.10'	N: 441728.09' E: 695523.48'
2 - EL: 3570.7'	5 - EL: 3570.3'	7 - EL: 3563.3'	10 - EL: 3564.7'
	5 EE. 5576.5	/ EE: 3303.5	10 - EE. 3304./
NAD 83	NAD 83	NAD 83	NAD 83
NAD 83	NAD 83	NAD 83	NAD 83
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°)	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°)
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°)	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°)
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST)
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37' E: 736174.28'	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24' E: 736170.18'	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03'	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10' E: 736889.13'
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37" E: 736174.28" STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12′50.80″ (32.214110°) LONGITUDE = -103°42′12.07″ (-103.703354°) NAD 27 LATITUDE = 32°12′50.35″ (32.213986°) LONGITUDE = -103°42′10.34″ (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24″ E; 736170.18″ STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03' STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10" E: 736889.13' STATE PLANE NAD 27 (N.M. EAST)
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37' E: 736174.28'	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24' E: 736170.18'	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03'	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10' E: 736889.13'
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37" E: 736174.28" STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12′50.80″ (32.214110°) LONGITUDE = -103°42′12.07″ (-103.703354°) NAD 27 LATITUDE = 32°12′50.35″ (32.213986°) LONGITUDE = -103°42′10.34″ (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24″ E; 736170.18″ STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03' STATE PLANE NAD 27 (N.M. EAST)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10" E: 736889.13' STATE PLANE NAD 27 (N.M. EAST)
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NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37' E: 736174.28" STATE PLANE NAD 27 (N.M. EAST) N: 441519.59' E: 694989.93' 11 - EL: 3567.8"	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24' E: 736170.18" STATE PLANE NAD 27 (N.M. EAST) N: 442139.45' E: 694985.86' 12 - EL: 3564.8'	NAD 83 LATITUDE = 32°12′50.80″ (32.214111°) LONGITUDE = -103°42′03.75″ (-103.701042°) NAD 27 LATITUDE = 32°12′50.36″ (32.213988°) LONGITUDE = -103°42′02.02″ (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97′ E: 736885.03′ STATE PLANE NAD 27 (N.M. EAST) N: 442144.18′ E: 695700.71′ 13 - EL: 3565.1′	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10' E: 736889.13' STATE PLANE NAD 27 (N.M. EAST) N: 441524.33' E: 695704.79' 14 - EL: 3567.9'
NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37' E: 736174.28" STATE PLANE NAD 27 (N.M. EAST) N: 441519.59' E: 694989.93' 11 - EL: 3567.8' NAD 83	NAD 83 LATITUDE = 32°12'50.80" (32.214110°) LONGITUDE = -103°42'12.07" (-103.703354°) NAD 27 LATITUDE = 32°12'50.35" (32.213986°) LONGITUDE = -103°42'10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24' E: 736170.18' STATE PLANE NAD 27 (N.M. EAST) N: 442198.45' E: 694985.86' 12 - EL: 3564.8' NAD 83	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03' STATE PLANE NAD 27 (N.M. EAST) N: 442144.18' E: 695700.71' 13 - EL: 3565.1' NAD 83	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10' E: 736889.13' STATE PLANE NAD 27 (N.M. EAST) N: 441524.33' E: 695704.79' 14 - EL: 3567.9' NAD 83
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NAD 83 LATITUDE = 32°12'44.66" (32.212406°) LONGITUDE = -103°42'12.07" (-103.703352°) NAD 27 LATITUDE = 32°12'44.22" (32.212282°) LONGITUDE = -103°42'10.34" (-103.702871°) STATE PLANE NAD 83 (N.M. EAST) N: 441578.37' E: 736174.28" STATE PLANE NAD 27 (N.M. EAST) N: 441519.59' E: 694989.93' 11 - EL: 3567.8' NAD 83 LATITUDE = 32°12'44.66" (32.212407°) LONGITUDE = -103°42'08.17" (-103.702269°) NAD 27 LATITUDE = 32°12'44.22" (32.212283°) LONGITUDE = -103°42'06.44" (-103.701789°) STATE PLANE NAD 83 (N.M. EAST) N: 441580.59' E: 736509.21' STATE PLANE NAD 83 (N.M. EAST) N: 441521.81' E: 695324.87' 15 - EL: 3567.3' NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'08.87" (-103.702465°) NAD 27 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'08.87" (-103.702465°) NAD 27 LATITUDE = 32°12'50.35" (32.213987°) LONGITUDE = -103°42'07.14" (-103.701984°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12′50.80" (32.214110°) LONGITUDE = -103°42′12.07" (-103.703354°) NAD 27 LATITUDE = 32°12′50.35" (32.213986°) LONGITUDE = -103°42′10.34" (-103.702873°) STATE PLANE NAD 83 (N.M. EAST) N: 442198.24' E: 736170.18' STATE PLANE NAD 27 (N.M. EAST) N: 442139.45' E: 694985.86' 12 - EL: 3564.8' NAD 83 LATITUDE = 32°12′44.67" (32.212407°) LONGITUDE = -103°42′05.26" (-103.701461°) NAD 27 LATITUDE = 32°12′44.22" (32.212284°) LONGITUDE = -103°42′05.35" (-103.700980°) STATE PLANE NAD 83 (N.M. EAST) N: 441582.24' E: 736759.16' STATE PLANE NAD 83 (N.M. EAST) N: 441523.47' E: 695574.81' 16 - EL: 3567.0' NAD 83 LATITUDE = 32°12′51.79" (32.214385°) LONGITUDE = -103°42′08.87" (-103.702465°) NAD 27 LATITUDE = 32°12′51.79" (32.214385°) LONGITUDE = -103°42′08.87" (-103.702465°) NAD 27 LATITUDE = 32°12′51.34" (32.214262°) LONGITUDE = -103°42′07.14" (-103.701984°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'03.75" (-103.701042°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'02.02" (-103.700562°) STATE PLANE NAD 83 (N.M. EAST) N: 442202.97' E: 736885.03' STATE PLANE NAD 27 (N.M. EAST) N: 442144.18' E: 695700.71' 13 - EL: 3565.1' NAD 83 LATITUDE = 32°12'43.68" (32.212132°) LONGITUDE = -103°42'05.26" (-103.701461°) NAD 27 LATITUDE = 32°12'43.23" (32.212009°) LONGITUDE = -103°42'05.53" (-103.700980°) STATE PLANE NAD 83 (N.M. EAST) N: 441482.26' E: 736759.82' STATE PLANE NAD 83 (N.M. EAST) N: 441482.39' E: 695575.47' 17 - EL: 3564.3' NAD 83 LATITUDE = 32°12'51.79" (32.214386°) LONGITUDE = -103°42'05.27" (-103.701463°) NAD 27 LATITUDE = 32°12'51.79" (32.214386°) LONGITUDE = -103°42'05.27" (-103.701463°) NAD 27 LATITUDE = 32°12'51.34" (32.214262°) LONGITUDE = -103°42'03.54" (-103.700982°) STATE PLANE NAD 83 (N.M. EAST)	NAD 83 LATITUDE = 32°12'44.67" (32.212408°) LONGITUDE = -103°42'03.75" (-103.701041°) NAD 27 LATITUDE = 32°12'44.22" (32.212284°) LONGITUDE = -103°42'02.02" (-103.700560°) STATE PLANE NAD 83 (N.M. EAST) N: 441583.10" E: 736889.13' STATE PLANE NAD 27 (N.M. EAST) N: 441524.33' E: 695704.79' 14 - EL: 3567.9' NAD 83 LATITUDE = 32°12'43.67" (32.212132°) LONGITUDE = -103°42'08.17" (-103.702269°) NAD 27 LATITUDE = 32°12'43.23" (32.212008°) LONGITUDE = -103°42'06.44" (-103.701788°) STATE PLANE NAD 83 (N.M. EAST) N: 441480.61' E: 736509.87' STATE PLANE NAD 83 (N.M. EAST) N: 441421.83' E: 695325.52' 18 - EL: 3565.0' NAD 83 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'05.27" (-103.701463°) NAD 27 LATITUDE = 32°12'50.80" (32.214111°) LONGITUDE = -103°42'05.27" (-103.701463°) NAD 27 LATITUDE = 32°12'50.36" (32.213988°) LONGITUDE = -103°42'03.53" (-103.700982°) STATE PLANE NAD 83 (N.M. EAST)

Sheet 2 of 3

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

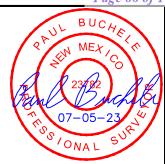
OXY USA INC.

MSAVRD 24S32E 1702 SW 1/4 SW 1/4, SECTION 17, T24S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO



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

SURVEYED BY	C.T., C.S.	06-05-23	SCALE
DRAWN BY	Z.L.	07-05-23	AS SHOWN
	SITE PLA	AN .	



BEGIN ACCESS ROAD "A" - EL: 3570.8'	END ACCESS ROAD "A" - EL: 3570.8'	BEGIN ACCESS ROAD "B" - EL: 3570.9'	END ACCESS ROAD "B" - EL: 3570.4'
NAD 83	NAD 83	NAD 83	NAD 83
LATITUDE = 32°12'44.76" (32.212433°)	LATITUDE = 32°12'44.76" (32.212433°)	LATITUDE = 32°12'50.70" (32.214082°)	LATITUDE = 32°12'50.70" (32.214082°)
LONGITUDE = -103°42'12.65" (-103.703513°)	LONGITUDE = -103°42'12.07" (-103.703352°)	LONGITUDE = -103°42'12.65" (-103.703515°)	LONGITUDE = -103°42'12.07" (-103.703354°)
NAD 27	NAD 27	NAD 27	NAD 27
LATITUDE = 32°12'44.32" (32.212310°)	LATITUDE = 32°12'44.31" (32.212310°)	LATITUDE = 32°12'50.25" (32.213959°)	LATITUDE = 32°12'50.25" (32.213959°)
LONGITUDE = -103°42'10.92" (-103.703032°)	LONGITUDE = -103°42'10.34" (-103.702871°)	LONGITUDE = -103°42'10.92" (-103.703034°)	LONGITUDE = -103°42'10.34" (-103.702873°)
STATE PLANE NAD 83 (N.M. EAST)			
N: 441588.04' E: 736124.51'	N: 441588.31' E: 736174.22'	N: 442187.88' E: 736120.33'	N: 442188.22' E: 736170.25'
STATE PLANE NAD 27 (N.M. EAST)			
N: 441529.26' E: 694940.16'	N: 441529.53' E: 694989.87'	N: 442129.09' E: 694936.01'	N: 442129.43' E: 694985.92'

BEGIN ACCESS ROAD "C" - EL: 3564.1'	END ACCESS ROAD "C" - EL: 3564.9'
NAD 83	NAD 83
LATITUDE = 32°12'45.06" (32.212516°)	LATITUDE = 32°12'45.07" (32.212519°)
LONGITUDE = -103°42'02.58" (-103.700717°)	LONGITUDE = -103°42'03.75" (-103.701041°)
NAD 27	NAD 27
LATITUDE = 32°12'44.61" (32.212392°)	LATITUDE = 32°12'44.62" (32.212395°)
LONGITUDE = -103°42'00.85" (-103.700237°)	LONGITUDE = -103°42'02.02" (-103.700560°)
STATE PLANE NAD 83 (N.M. EAST)	STATE PLANE NAD 83 (N.M. EAST)
N: 441623.13' E: 736988.99'	N: 441623.51' E: 736888.87'
STATE PLANE NAD 27 (N.M. EAST)	STATE PLANE NAD 27 (N.M. EAST)
N: 441564.35' E: 695804.65'	N: 441564.74' E: 695704.52'

Sheet 3 of 3

NOTES:

Basis of Bearings is a Transverse Mercator Projection with a Central Meridian of W103°53'00" (NAD 83)

OXY USA INC.

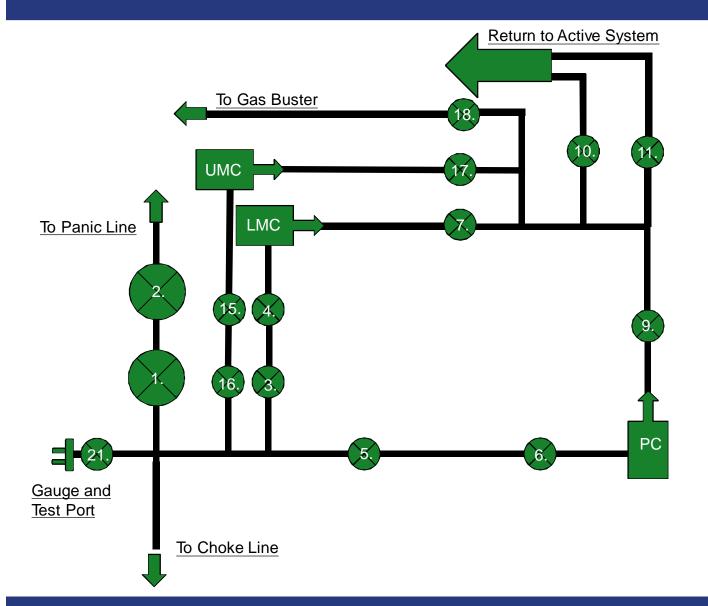
MSAVRD_24S32E_1702 SW 1/4 SW 1/4, SECTION 17, T24S, R32E, N.M.P.M. LEA COUNTY, NEW MEXICO



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

SURVEYED BY	C.T., C.S.	06-05-23	SCALE
DRAWN BY	Z.L.	07-05-23	AS SHOWN
	SITE PL	AN	

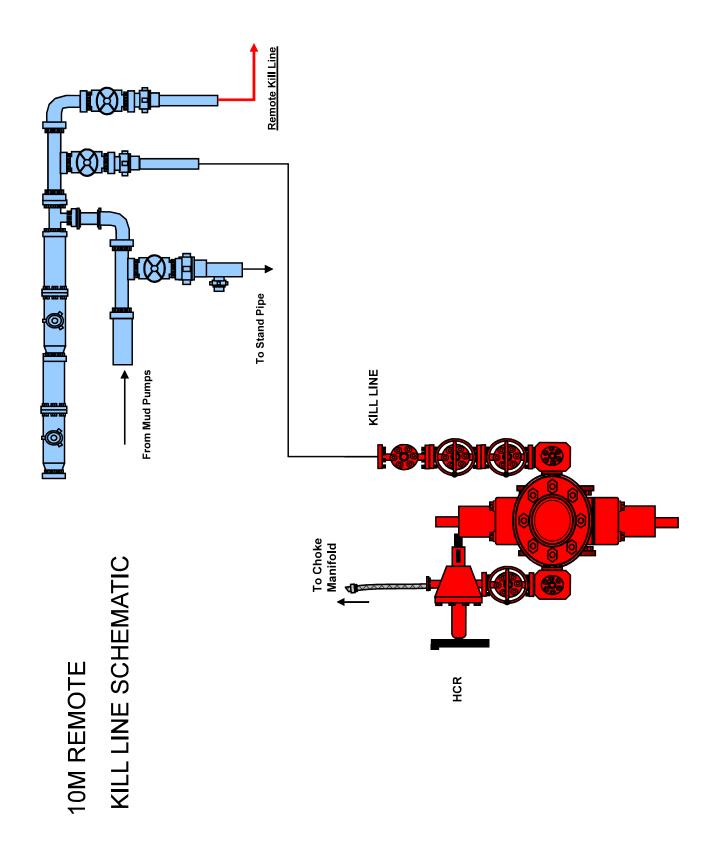
10M Choke Panel

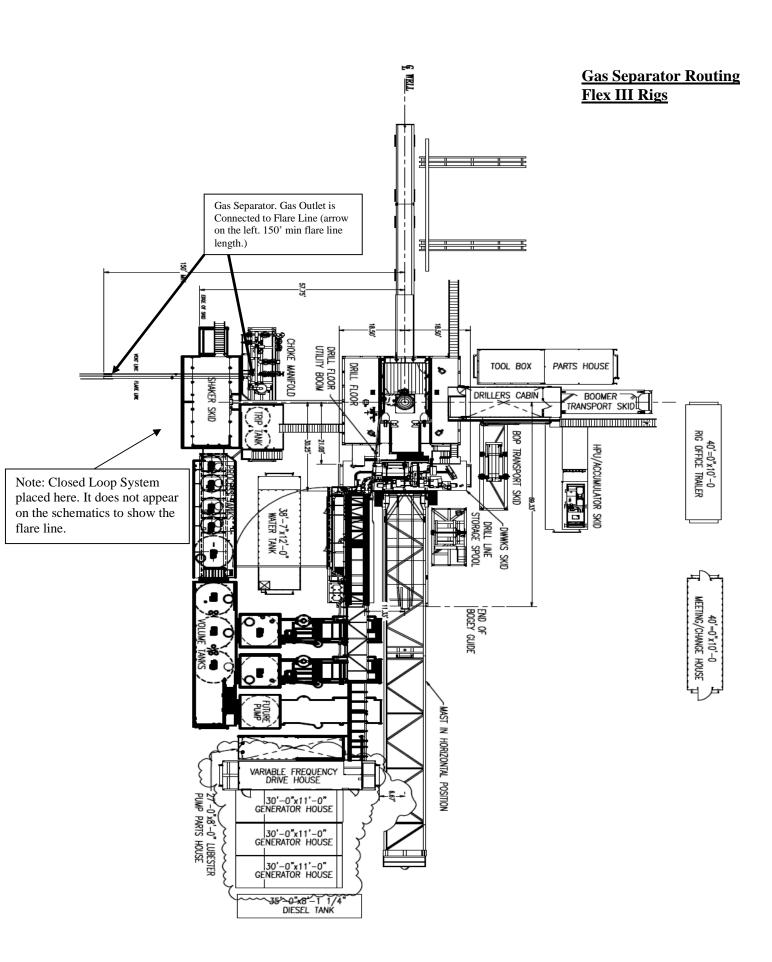


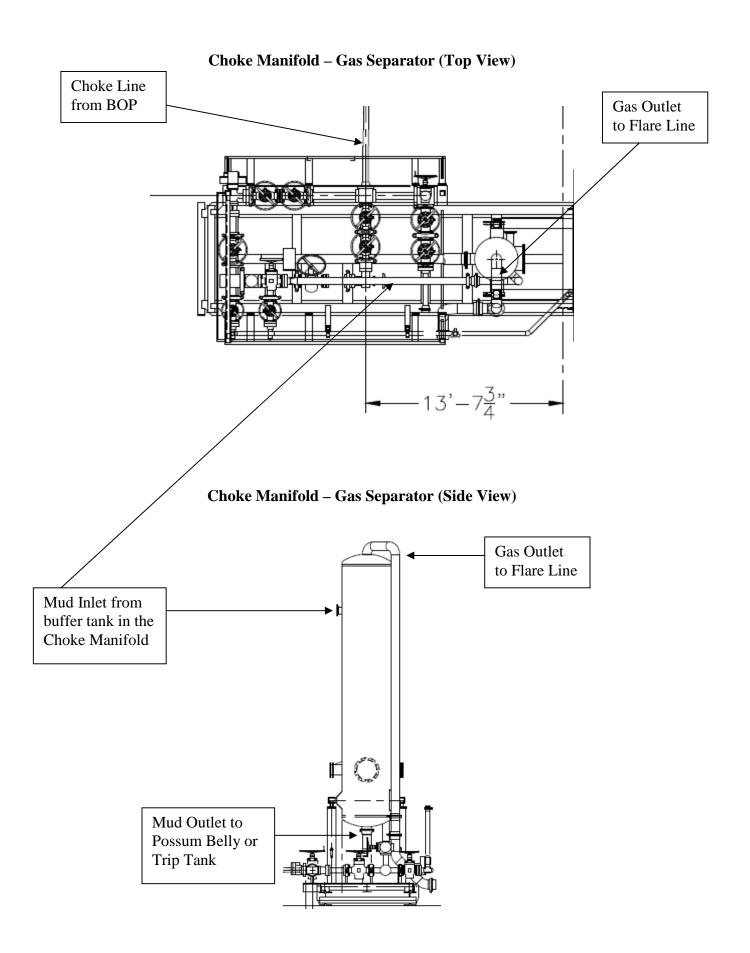
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual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

*All Valves 3" minimum











Fluid Technology

Quality Document

CERTIFICATE OF CONFORMITY

Supplier : CONTITECH RUBBER INDUSTRIAL KFT.

Equipment: 6 pcs. Choke and Kill Hose with installed couplings

Type: 3" x 10,67 m WP: 10000 psi

Supplier File Number : 412638

Date of Shipment : April. 2008

Customer : Phoenix Beattie Co.

Customer P.o. : 002491

Referenced Standards

/ Codes / Specifications: API Spec 16 C

Serial No.: 52754,52755,52776,52777,52778,52782

STATEMENT OF CONFORMITY

We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Signed: OWN Company

ontiTech Rubber Industrial Kft. Quality Control Dept.

Position: Q.C. Manager

Date: 04. April. 2008

Page: 1/1

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ODG6330 Client HELMERICH & PAYNE INT'L DRILLING Count Ref 370-369-001	H →	PHOENIX Beattie	ıttie	Materia	l Iden	ıtificatik	Material Identification Certificate	icate			
Description Material Desc Material Spec Qty WO No Batch No Test Cert No Bin No	PA No 00	Client		'NE INT'L DRILLING	Cent	11	70-369-001			Page	1
2 SAFETY CLAPP 325M 7, 25T CARBON STEEL	Part No	Description	-	Material Spec	Otty	WO No		Test Cert No	Bin No	Dra No	N crisol
S SIFETY CLAPS TOBH 7 TO THE STATE TO THE ST	HP10CK3A-35-4F1	3" 10K 16C C&K HOSE x 35ft CAL			1	2491	1.47		MATER	2	on anssi
SAFETY CLAPP 129TH 7.25T CARBON STELL 1 224.2 H139 SAFETY CLAPP 132PH 7.25T CARBON STELL 1 224.2 H139 CARBON STELL 1 224.2 H139	SECK3-HPF3	LIFTING & SAFETY EQUIPMENT TO			1	2440	002440		N/STK		
SAFETY CLAM 132M 7,25T LOKBON STEEL 1 2242 H139	SC725-200CS	SAFETY CLAMP 200MM 7.25T	CARBON STEEL		1	2519	H665		295		
	3C725-132CS	SAFETY CLAMP 132MM 7.25T	CARBON STEEL			2242	H139		2		
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We hereby certify that these goods have been inspected by our Quality Management System, and to the best of our knowledge are found to conform to relevant industry standards within the requirements of the purchase order as issued to Phoenix Beattie Corporation.

Released to Imaging: 2/5/2025 1:36:17 PM

PHOENIX Beattie

Form No 100/12

Phoenix Beattle Corp

11535 Brittmoore Park Drive Houston, TX 77041 Tel: (832) 327-0141 Fax: (832) 327-0148 E-mail mail@phoentxbeattie.com www.phoentxbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	1
Customer / Invoice Address HELMERICH & PAYNE INT'L D 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIC 13609 INDUSTRIAL ROAD HOUSTON, TX 77015	3 370		

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattie Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Oty Sent	Qty To Foliow
1	HP10CK3A-35-4F1 3" 10K 16C C&K HOSE x 35ft OAL CW 4.1/16" API SPEC FLANGE E/ End 1: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange End 2: 4.1/16" 10Kpsi API Spec 6A Type 6BX Flange c/w BX155 Standard ring groove at each end Suitable for H2S Service Working pressure: 10.000psi Test pressure: 15.000psi Standard: API 16C Full specification Armor Guarding: Included Fire Rating: Not Included Temperature rating: -20 Deg C to +100 Deg C	1	1	0
2	SECK3-HPF3 LIFTING & SAFETY EQUIPMENT TO SUIT HP10CK3-35-F1 2 x 160mm ID Safety Clamps 2 x 244mm ID Lifting Collars & element C's 2 x 7ft Stainless Steel wire rope 3/4" OD 4 x 7.75t Shackles	1	1	0
3	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

All goods remain the property of Phoenix Beattie until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.



Fluid Technology

Quality Document

QUALI INSPECTION A	TY CONT	_	ATE	CERT. N	No:	746
	Phoenix Bea			P.O. N°:	00	02491
CONTITECH ORDER N°:	412638	HOSE TYPE:	3" ID	Cho	oke and Kil	Hose
HOSE SERIAL Nº:	52777	NOMINAL / ACT	TUAL LENGTH	:	10,67 m	
W.P. 68,96 MPa 10	0000 psi	T.P. 103,4	MPa 1500	O psi	Duration:	60 ~ m
Pressure test with water at ambient temperature 10 mm = 10 Min.		attachment.	(1 page)			
→ 10 mm = 25 MPa	1	COUPL	INGS			
Туре		Serial N°		Quality		Heat N°
3" coupling with	917	913	AIS	SI 4130		T7998A
4 1/16" Flange end			AIS	SI 4130		26984
INFOCHIP INSTALLI	ĒD					PI Spec 16 C perature rate:"B
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE			RED IN ACCOR	DANCE WI	TH THE TERM	S OF THE ORDER AN
Date:	Inspector		Quality Contro	ol		
04. April. 2008	and principal designs and the superiodic seaso designs and the		15acn	Ind	Tech Rubber ustrial Kft. Control Dept (1)	

Form No 100/12

→ PHOENIX Beattie

Phoenix Beattle Corp

11535 Brittmoore Park Drive Houston, TX 77041 Tel: (832) 327-0141 Fax: (832) 327-0148 E-mail mail@phoenixbeattie.com

Delivery Note

Customer Order Number	370-369-001	Delivery Note Number	003078	Page	2
Customer / Invoice Address HELMERICH & PAYNE INT'L I 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIGHT - RIGH	G 370		

Customer Acc No	Phoenix Beattie Contract Manager	Phoenix Beattle Reference	Date
H01	JJL	006330	05/23/2008

Item No	Beattie Part Number / Description	Qty Ordered	Qty Sent	Oty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
5	OOCERT-HYDRO HYDROSTATIC PRESSURE TEST CERTIFICATE	1	1	0
6	OOCERT-LOAD LOAD TEST CERTIFICATES	1	1	0
	OOFREIGHT INBOUND / OUTBOUND FREIGHT PRE-PAY & ADD TO FINAL INVOICE NOTE: MATERIAL MUST BE ACCOMPANIED BY PAPERWORK INCLUDING THE PURCHASE ORDER, RIG NUMBER TO ENSURE PROPER PAYMENT		1	0
			$\left \bigcap_{i} \right $	

Phoenix Beattle Inspection Signature:

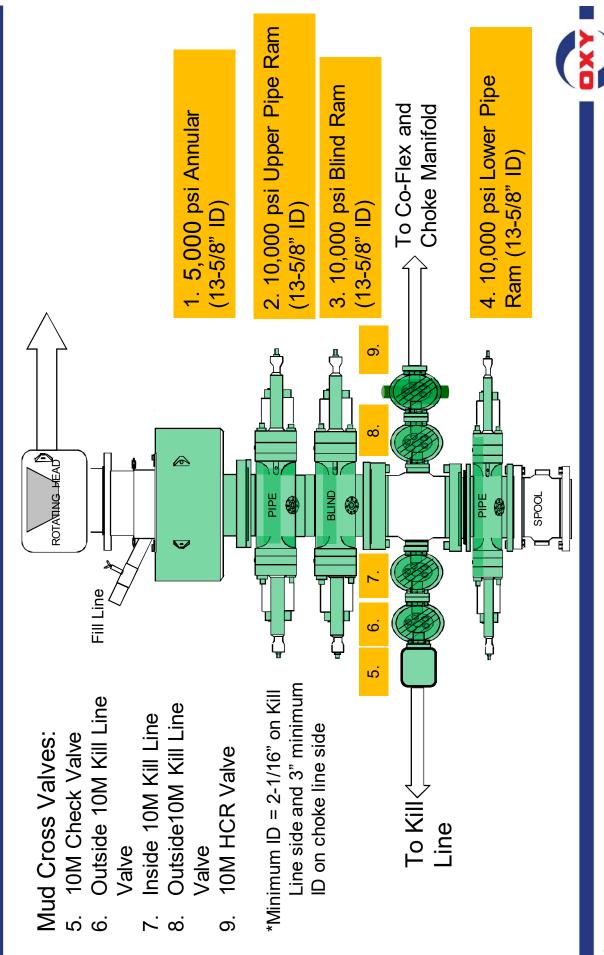
Received In Good Condition: Signature

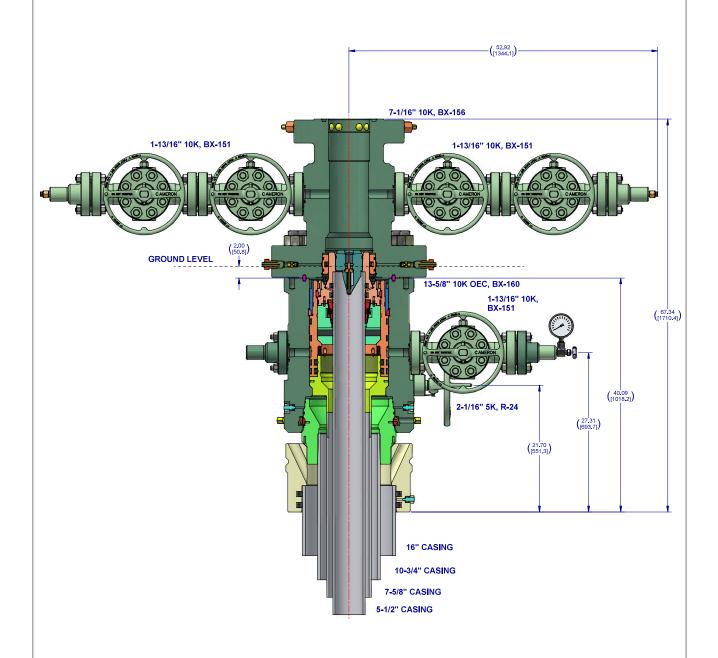
Print Name

Date

All goods remain the property of Phoenix Beattle until paid for in full. Any damage or shortage on this delivery must be advised within 5 days. Returns may be subject to a handling charge.

5/10M BOP Stack





Notes:

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

	CONF	IDEN	TIAL	
DO NOT SC.	ALE		CAMERON	SURFACE
DRAWN BY:	DATE			SYSTEMS
D. GOTTUNG	2 Dec 21		A Schlumberger Company	
CHECKED BY:	DATE			
D, GOTTUNG	2 Dec 21	OXY 13-5/8" 10K ADAPT		APT
APPROVED BY:	DATE	1	16" X 10-3/4" X 7-5/8" >	C5-1/2"
D. GOTTUNG	2 Dec 21			
5.617 LBS INITIAL USE BM: 55 434 KG		SHEET 4 of 4	SD-053434-94-	.05 REV:
	DRAWN BY: D. GOTTUNG CHECKED BY: D. GOTTUNG APPROVED BY: D. GOTTUNG	D. GOTTUNG 2 Dec 21	DATE DATE DATE D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG 2 Dec 21 CHECKED BY: D. GOTTUNG SHEET SHEET SHEET SHEET CHECKED BY: DATE D. GOTTUNG 2 Dec 21 CHECKED BY: DATE D. GOTTUNG 2 Dec 21 CHECKED BY: DATE DATE	DAVID DATE DATE



TenarisHydril Wedge 463®



Coupling	Pipe Body
Grade: P110-S	Grade: P110-S
Body: White	1st Band: White
1st Band: Orange	2nd Band: Orange
2nd Band: -	3rd Band: -
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Outside Diameter	7.827 in.	Wall Thickness	0.500 in.	Grade	P110-S
Min. Wall Thickness	87.50 %	Pipe Body Drift	Special Drift	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	7.827 in.	Wall Thickness	0.500 in.
Nominal Weight	39.30 lb/ft	Plain End Weight	39.16 lb/ft
Drift	6.750 in.	OD Tolerance	API
Nominal ID	6.827 in.		

Performance	
Body Yield Strength	1266 x1000 lb
Min. Internal Yield Pressure	12,300 psi
SMYS	110,000 psi
Collapse Pressure	10,490 psi

Connection Data

Geometry	
Connection OD	8.500 in.
Coupling Length	10.950 in.
Connection ID	6.814 in.
Make-up Loss	4.520 in.
Threads per inch	3.25
Connection OD Option	Regular

Performance	
Tension Efficiency	100 %
Joint Yield Strength	1266 x1000 lb
Internal Pressure Capacity	12,300 psi
Compression Efficiency	100 %
Compression Strength	1266 x1000 lb
Max. Allowable Bending	64.42 °/100 ft
External Pressure Capacity	10,490 psi
Coupling Face Load	414,177 lb

Make-Up Torques	
Minimum	22,000 ft-lb
Optimum	23,000 ft-lb
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	61,000 ft-lb
Operating Torque Yield Torque	61,000 ft-lb
	<u> </u>
Yield Torque	<u> </u>

Notes

For the lastest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PII/CII

OXY's Minimum Design Criteria

Burst, Collapse, and Tensile SF are calculated using Landmark's Stress Check (Casing Design) software. A sundry will be requested if any lesser grade or different size casing is substituted.

1) Casing Design Assumptions

a) Burst Loads

CSG Test (Surface)

- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Pore pressure in open hole.
 - CSG Test (Intermediate)
- Internal: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both 43 CFR part 3170 Subpart 3172 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

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

External:

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

Gas Column (Surface)

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

Bullheading (Surface / Intermediate)

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

Gas Kick (Intermediate)

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

Tubing Leak Near Surface While Producing (Production)

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

Tubing Leak Near Surface While Stimulating (Production)

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

Injection / Stimulation Down Casing (Production)

- o Internal: Surface pressure plus injection fluid gradient.
- External: Mud base-fluid density to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run. Cementing (Surface / Intermediate / Production)
- o Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

- Internal: Full void pipe.
- External: MW of drilling mud in the hole when the casing was run.

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

 Axial: Buoyant weight of the string plus the lesser of 100,000 lb or the string weight in air.

Green Cement (Surface / Intermediate / Production)

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



5.500" 20.00 lb/ft P110-CY TenarisHydril Wedge 461™ Matched Strength



Special Data Sheet TH DS-20.0359 12 August 2020 Rev 00

Nominal OD	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min Wall Thickness	87.5%	Туре	CASING	Connection OD Option	MATCHED STRENGTH
Pipe Body Data					
Geometry				Performance	
Nominal OD	5.500 in.	Nominal ID	4.778 in.	Body Yield Strength	641 x 1000 lbs
Nominal Weight	20.00 lbs/ft	Wall Thickness	0.361 in.	Internal Yield	12640 psi
Standard Drift Diameter	4.653 in.	Plain End Weight	19.83 lbs/ft	SMYS	110000 psi
Special Drift Diameter	N/A	OD Tolerance	API	Collapse Pressure	11110 psi
Connection Data					
Geometry		Performance		Make-up Torques	
Matched Strength OD	6.050 in.	Tension Efficiency	100%	Minimum	17000 ft-lbs
Make-up Loss	3.775 in.	Joint Yield Strength	641 x 1000 lbs	Optimum	18000 ft-lbs
Threads per in.	3.40	Internal Yield	12640 psi	Maximum	21600 ft-lbs
Connection OD Option	MATCHED STRENGTH	Compression Efficiency	100%	Operational Limit Torques	3
Coupling Length	7.714 in.	Compression Strength	641 x 1000 lbs	Operating Torque	32000 ft-lbs
		Bending	92 °/100 ft	Yield Torque	38000 ft-lbs
		Collapse	11110 psi	Buck-On Torques	
				Minimum	21600 ft-lbs
				Maximum	23100 ft-lbs

Notes

^{*}If you need to use torque values that are higher than the maximum indicated, please contact a local Tenaris technical sales representative

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

General Information Phone: (505) 629-6116

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

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

CONDITIONS

Action 425106

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	425106
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
lesliereeves	Cement is required to circulate on both surface and intermediate1 strings of casing.	1/27/2025
lesliereeves	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/27/2025
pkautz	File As Drilled C-102 and a directional Survey with C-104 completion packet.	2/5/2025
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string.	2/5/2025
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.	2/5/2025