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. 30-015-54031 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: LOT 3 / 450 FNL / 2330 FWL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.2530212 / LONG: -104.0248082 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 1330 FSL / 1871 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.228646 / LONG: -104.021225 (TVD: 8886 feet, MD: 18043 feet) PPP: SWNE / 1329 FNL / 1873 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.235952 / LONG: -104.021243 (TVD: 8889 feet, MD: 15385 feet) PPP: NWNE / 1 FNL / 1874 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.239605 / LONG: -104.021251 (TVD: 8891 feet, MD: 14056 feet) PPP: SWSE / 1329 FSL / 1873 FEL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.243259 / LONG: -104.02126 (TVD: 8893 feet, MD: 12727 feet) PPP: LOT 2 / 100 FNL / 1870 FEL / TWSP: 24S / RANGE: 29E / SECTION: 6 / LAT: 32.2539534 / LONG: -104.0212862 (TVD: 8897 feet, MD: 9359 feet) BHL: SWSE / 20 FSL / 1870 FEL / TWSP: 24S / RANGE: 29E / SECTION: 7 / LAT: 32.225042 / LONG: -104.0212161 (TVD: 8884 feet, MD: 19355 feet)

BLM Point of Contact

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

Email: TCMOLINA@BLM.GOV

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artosia, NM 88210

Phone: (375) 748-1283 Fax: (575) 748-9720 District III. 1000 Rio Braxos Road, Axtoc, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

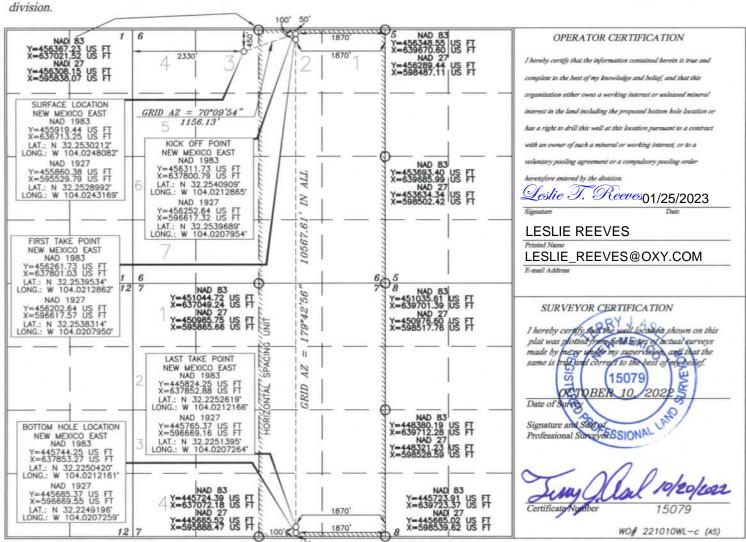
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number Pool Code 30-015-54031 50371		PIERCE CROSSING, BONE SPRING		
Property Code 323066		Property Name 7" FEDERAL COM	Well Number 73H	
OGRID No. 16696		Decrator Name USA INC.	Elevation 2959.8'	

Surface Location

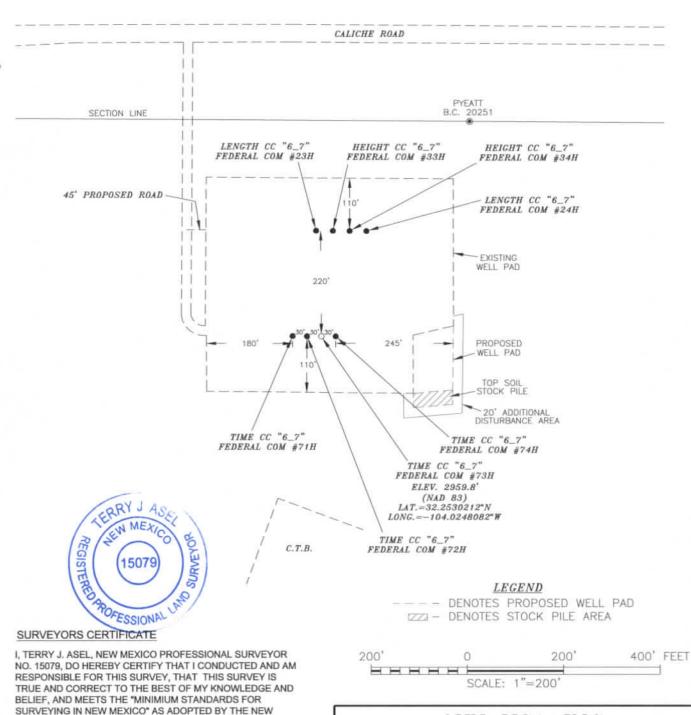
UL or lot no.	Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	6	24 SOUTH	29 EAST, N.	М. Р. М.		450'	NORTH	2330'	WEST	EDDY
			Bottom Ho.	le Locatio	on If I	Different I	rom Surfac	e		
UL or lot no.	Section	Township	Range		Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	7	24 SOUTH	29 EAST, N.	М. Р. М.		20'	SOUTH	1870'	EAST	EDDY
Dedicated	Acres	Joint or Infill	Consolidation Code	Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the



OXY USA INC. TIME CC "6_7" FEDERAL COM #73H SITE PLAN

FAA PERMIT: NO



OXY USA INC.

TIME CC "6_7" FEDERAL COM #73H LOCATED AT 450' FNL & 2330' FWL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 10/10/22	Sheet 1	of 1 Sheets		
W.O. Number: 221010WL-c	Drawn By: KA			
Date: 10/12/22	221010WL-c	Scale:1"=200'		

Jerry J. Asel NM. R.P.L.S. No. 15079

Asel Surveying, LLC

MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS, AND SURVEYORS.

P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



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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

gement Plan m	ust be submitted wi	th each Applica	tion for Permit to I	Orill (AP	D) for a 1	new or	recompleted well.		
I. Operator: OXY USA INC. OGRID: 16696 Date: 0 8/0 1/2 3									
II. Type: ☑ Original □ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other.									
e:									
				wells pro	posed to	be dri	lled or proposed to		
API	ULSTR	Footages	Anticipated Oil BBL/D			Pı	Anticipated roduced Water BBL/D		
le: Provide the	following information	tion for each nev		vell or se			7.9(D)(1) NMAC] seed to be drilled or		
API	Spud Date	TD Reached Date					First Production Date		
tices: ☑ Attac	ch a complete descr	_	_						
VIII. Best Management Practices: ✓ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.									
	API Oint Name: API Oint Name: API API API API API API API AP	Section Ef SA INC. Amendment due to □ 19.15.27. ef following information for each ringle well pad or connected to a connected to a connected from a single well pad or co	Section 1 — Plan D Effective May 25. A INC. OGRID: 16 Amendment due to □ 19.15.27.9.D(6)(a) NMA e: □ de following information for each new or recompletingle well pad or connected to a central delivery properties. API ULSTR Footages Oint Name: □ DIMENSION 6 CTB	Section 1 — Plan Description Effective May 25, 2021 Al INC. OGRID: 16696 Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6) et efollowing information for each new or recompleted well or set of vingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D oint Name: □DIMENSION 6 CTB Re: Provide the following information for each new or recompleted weted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Date Commencement API Spud Date TD Reached Completion Commencement API Attach a complete description of how Operator will size sep tices: ☑ Attach a complete description of the actions Operator will of 19.15.27.8 NMAC. The Practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices: ☑ Attach a complete description of Operator's best in the practices in the pra	Section 1 — Plan Description Effective May 25, 2021 AMINC. OGRID: 16696 Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) Nice: e following information for each new or recompleted well or set of wells provingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Oil BBL/D Gas North Name: DIMENSION 6 CTB 1e: Provide the following information for each new or recompleted well or settled from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Date Completion Commencement Date Completion Commencement Date Date Completion Commencement Date Completion Commencement Date Completion Commencement Date Completion Commencement Date Completion Comp	Section 1 — Plan Description Effective May 25, 2021 A INC. OGRID: 16696 Date: Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ 0 Completed well or set of wells proposed to ingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Gas MCF/D Coint Name: DIMENSION 6 CTB [See 1] Be: Provide the following information for each new or recompleted well or set of wells eted from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Initial Footages Date Commencement Date Date Commencement Date Date Commencement Date Date Commencement Date Date Date Completion Commencement Date Date Date Date Completion Space Date Date Date Date Date Date Date Dat	AlnC. OGRID: 16696 Date: 0 8/ Amendment due to □ 19.15.27.9.D(6)(a) NMAC □ 19.15.27.9.D(6)(b) NMAC □ Other. ce following information for each new or recompleted well or set of wells proposed to be drivingle well pad or connected to a central delivery point. API ULSTR Footages Anticipated Anticipated Gas MCF/D Proposed to be drivingle well pad or connected to a central delivery point. In Provide the following information for each new or recompleted well or set of wells proposed from a single well pad or connected to a central delivery point. API Spud Date TD Reached Completion Commencement Date Back Date Commencement Date Back Date Commencement Date Commencement Date Completion Commencement Date Back Date Completion Completion Spack Date Spack Date Completion Spack Date Date Spack Date Date Spack Date Date Spack Date Date Date Date Date Date Date Date		

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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	ral gas
production volume from the well prior to the date of first production.	

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

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

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

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Section 3 - Certifications Effective May 25, 2021

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

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

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

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

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

(a) power generation on lease;

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

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

Section 4 - Notices

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

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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: 8/1/2023
Phone: 713-497-2492
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

III. Well(s)

Well Name	API	WELL LOCATION (ULSTR)	Footages	ANTICIPATED OIL BBL/D	ANTICIPATED GAS MCF/D	ANTICIPATED PROD WATER BBL/D
TIME CC 6-7 FED COM 71H	Pending	C-6-24S-29E	450 FNL 2270 FWL	2200	6000	2100
TIME CC 6-7 FED COM 72H	Pending	C-6-24S-29E	450 FNL 2300 FWL	2200	6000	2100
TIME CC 6-7 FED COM 73H	Pending	C-6-24S-29E	450 FNL 2330 FWL	2200	6000	2100
TIME CC 6-7 FED COM 74H	Pending	C-6-24S-29E	450 FNL 2360 FWL	2200	6000	2100

V. Anticipated Schedule

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
TIME CC 6-7 FED COM 71H	Pending	9/13/2023	11/3/2023	12/17/2023	1/19/2024	1/20/2024
TIME CC 6-7 FED COM 72H	Pending	9/30/2023	11/29/2023	12/17/2023	1/19/2024	1/20/2024
TIME CC 6-7 FED COM 73H	Pending	9/21/2023	11/16/2023	12/17/2023	1/22/2024	1/23/2024
TIME CC 6-7 FED COM 74H	Pending	8/31/2023	10/21/2023	12/17/2023	1/22/2024	1/23/2024

Central Delivery Point Name: Dimension 6 CTB

Part VI. Separation Equipment

Operator will size the flowback separator to handle 4,300 Bbls of fluid and 6-7 MMscfd which is more than the expected peak rates for these wells. Each separator is rated to 1440 psig, and pressure control valves and automated communication will cause the wells to shut in in the event of an upset at the facility, therefore no gas will be flared on pad during an upset. Current Oxy practices avoid use of flare or venting on pad, therefore if there is an upset or emergency condition at the facility, the wells will immediately shut down, and reassume production once the condition has cleared.

VII. Operational Practices

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, where a gas transporter system is in place. The gas produced from production facility is dedicated to Enterprise Field Services, LLC ("Enterprise") and is connected to Enterprise low/high pressure gathering system located in Eddy County, New Mexico. OXY USA INC. ("OXY") provides (periodically) to Enterprise a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, OXY and Enterprise have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise's Processing Plant located in Sec. 36, Twn. 24S, Rng. 30E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

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VIII. Best Management Practices

Alternatives to Reduce Flaring

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

Power Generation – On lease

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

Compressed Natural Gas - On lease

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

NGL Removal – On lease

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

Oxy USA Inc. - Time CC 6_7 Federal Com 73H Drill Plan

1. Geologic Formations

TVD of Target (ft):	8897	Pilot Hole Depth (ft):	
Total Measured Depth (ft):	19356	Deepest Expected Fresh Water (ft):	113

Delaware Basin

Formation	MD-RKB (ft)	TVD-RKB (ft)	Expected Fluids
Rustler	113	113	
Salado	540	540	Salt
Castile	1309	1309	Salt
Delaware	2776	2776	Oil/Gas/Brine
Bell Canyon	2815	2815	Oil/Gas/Brine
Cherry Canyon	3687	3687	Oil/Gas/Brine
Brushy Canyon	4935	4920	Losses
Bone Spring	6564	6500	Oil/Gas
Bone Spring 1st	7589	7495	Oil/Gas
Bone Spring 2nd	8381	8263	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	TVD					
	Hole	From	То	From	То	Csg.	Csg Wt.		
Section	Size (in)	(ft)	(ft)	(ft)	(ft)	OD (in)	(ppf)	Grade	Conn.
Surface	14.75	0	480	0	480	10.75	45.5	J-55	BTC
Intermediate	9.875	0	8307	0	8188	7.625	26.4	L-80 HC	BTC
Production	6.75	0	19356	0	8897	5.5	20	P-110	Wedge 461

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

^{*}Oxy requests the option to run production casing with DQX, TORQ DQW, Wedge 425, Wedge 461, and/or Wedge 441 connections to accommodate hole conditions or drilling operations.

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Occidental - Permian New Mexico

All Casing SF Values will meet or							
exceed those below							
C F	SF Body SF Joint S						
SF	SF	Rody SF	Joint SF				
SF Collapse	<u> </u>		Tension				

Annular Clearance Variance Request

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

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

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards?	Y
If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	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 strings cemented to surface?	

Time CC 6_7 Federal Com 73H

Occidental - Permian New Mexico

3. Cementing Program

Section	Stage	Slurry:	Sacks	Yield (ft^3/ft)	Density (lb/gal)	Excess:	тос	Placement	Description
Surface	1	Surface - Tail	402	1.33	14.8	100%	-	Circulate	Class C+Accel.
Int.	1	Intermediate 1S - Tail	427	1.65	13.2	5%	5,185	Circulate	Class H+Accel., Disper., Salt
Int.	2	Intermediate 2S - Tail BH	804	1.71	13.3	25%	-	Bradenhead	Class C+Accel.
Prod.	1	Production - Tail	872	1.38	13.2	25%	7,807	Circulate	Class H+Ret., Disper., Salt

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Offline Cementing

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

The summarized operational sequence will be as follows:

Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe). Land casing.

Fill pipe with kill weight fluid, and confirm well is static.

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

The summarized operational sequence will be as follows:

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe).
- 2. Land casing.
- 3. Fill pipe with kill weight fluid, and confirm well is static.
 - a. If well is not static notify BLM and kill well.
 - b. Once well is static notify BLM with intent to proceed with nipple down and offline cementing.
- 4. Set and pressure test annular packoff.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed.
- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange.
- 8. If well is not static notify BLM and kill well prior to cementing or nippling up for further remediation.
- 9. Install offline cement tool.
- 10. Rig up cement equipment.
 - a. Notify BLM prior to cement job.
- 11. Perform cement job.
- 12. Confirm well is static and floats are holding after cement job.
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.

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

Page 4 of 8 Created On: 12/15/2022 at 9:05 AM

Occidental - Permian New Mexico

4. Pressure Control Equipment

BOP installed and tested before drilling which hole?	Size?	Min. Required WP		Туре	✓	Tested to:	Deepest TVD Depth (ft) per Section:
		3M		Annular	✓	70% of working pressure	
				Blind Ram	✓		
9.875" Hole	13-5/8"	3M		Pipe Ram		250 psi / 3000 psi	8188
			Double Ram		>	250 psi / 3000 psi	
			Other*				
		5M		Annular	>	70% of working pressure	
				Blind Ram	>		
6.75" Hole 13-5/8"		,,		Pipe Ram		250 poi / 5000 poi	8897
		5M		Double Ram	>	250 psi / 5000 psi	
			Other*				

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

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

^{*}Specify if additional ram is utilized

Occidental - Permian New Mexico

Formation integrity test will be performed per Onshore Order #2.

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 Onshore Oil and Gas Order #2 III.B.1.i.

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.

Y 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 Onshore Order #2 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.

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.

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

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.

Page 6 of 8 Created On: 12/15/2022 at 9:05 AM

Occidental - Permian New Mexico

5. Mud Program

Section	Depth -	- MD	Depth -	TVD	Tymo	Weight	Viceosity	Water
Section	From (ft)	To (ft)	From (ft)	To (ft)	Туре	(ppg)	Viscosity	Loss
Surface	0	480	0	480	Water-Based Mud	8.6 - 8.8	40-60	N/C
Intermediate	480	8307	480	8188	Saturated Brine-Based or Oil-Based Mud	8.0 - 10.0	35-45	N/C
Production	8307	19356	8188	8897	Water-Based or Oil- Based Mud	9.5 - 12.5	38-50	N/C

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

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

6. Logging and Testing Procedures

	00 0						
Loggi	Logging, Coring and Testing.						
Yes	Will run GR from TD to surface (horizontal well – vertical portion of hole).						
res	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	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5784 psi
Abnormal Temperature	No
BH Temperature at deepest TVD	152°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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

DLIVI.	
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	Vac
sections and production sections. The wellhead will be secured with a night cap whenever	Yes
the rig is not over the well.	
Will more than one drilling rig be used for drilling operations? If yes, describe.	
Oxy requests the option to contract a Surface Rig to drill, set surface casing, and cement for	
this well. If the timing between rigs is such that Oxy would not be able to preset surface,	Yes
the Primary Rig will MIRU and drill the well in its entirety per the APD. Please see the	
attached document for information on the spudder rig.	

Total Estimated Cuttings Volume: 1332 bbls

Attachments

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

9. Company Personnel

_			
<u>Name</u>	<u>Title</u>	Office Phone	Mobile Phone
Garrett Granier	Drilling Engineer	713-513-6633	832-265-0581
Derek Adam	Drilling Engineer Supervisor	713-366-5170	916-802-8873
Casey Martin	Drilling Superintendent	713-497-2530	337-764-4278
Kevin Threadgill	Drilling Manager	713-366-5958	361-815-0788

OXY USA Inc APD ATTACHMENT: SPUDDER RIG DATA

OPERATOR NAME / NUMBER: OXY USA Inc

1. SUMMARY OF REQUEST:

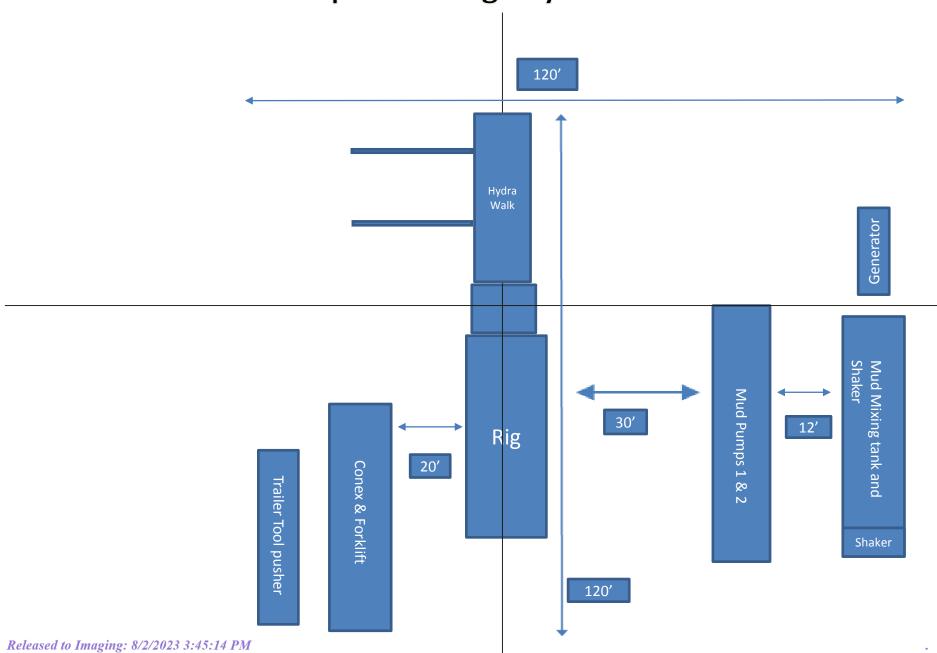
Oxy USA respectfully requests approval for the following operations for the surface hole in the drill plan:

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

Spudder Rig Layout



PRD NM DIRECTIONAL PLANS (NAD 1983) Time CC 6_7 Federal Com Time CC 6_7 Federal Com 73H

Wellbore #1

Plan: Permitting Plan

Standard Planning Report

12 December, 2022

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

Grid

Minimum Curvature

Project PRD NM DIRECTIONAL PLANS (NAD 1983)

Map System: US State Plane 1983

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

System Datum: Mean Sea Level

Using geodetic scale factor

Site Time CC 6_7 Federal Com

 Site Position:
 Northing:
 456,206.24 usft
 Latitude:
 32.253817

 From:
 Map
 Easting:
 635,771.76 usft
 Longitude:
 -104.027851

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Time CC 6_7 Federal Com 73H

Well Position +N/-S 0.00 ft 455.919.44 usf Latitude: 32.253021 Northing: +E/-W 0.00 ft Easting: 636,713.25 usf -104.024808 Longitude: **Position Uncertainty** 2.00 ft Wellhead Elevation: ft **Ground Level:** 2,959.80 ft

Grid Convergence: 0.16 $^{\circ}$

Wellbore #1

Magnetics Model Name Sample Date Declination Dip Angle Field Strength

(°) (°) (nT)

HDGM_FILE 12/12/2022 6.68 59.90 47,558.50000000

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 0.00 173.61

Plan Survey Tool Program Date 12/12/2022

Depth From Depth To

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

1 0.00 19,355.80 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 3,478.00 0.00 0.00 3,478.00 0.00 0.00 0.00 0.00 0.00 0.00 4,878.30 14.00 67.59 4,864.40 64.91 157.41 1.00 1.00 0.00 67.59 8,406.82 14.00 67.59 8,288.06 390.40 946.74 0.00 0.00 0.00 0.00 9,359.80 90.07 8,897.15 -180.16 10.00 7.98 179 72 1,090.46 11 77 111 51 19,355.80 90.07 179.72 8,884.80 -10,176.03 0.00 0.00 0.00 0.00 PBHL (Time CC 6_7 1,140.11

Planning Report

Database: Company: Project: HOPSPP

ENGINEERING DESIGNS

PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

Grid

esigii.		all							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	F00 00	0.00	0.00	0.00	0.00	0.00	0.00
500.00 600.00	0.00 0.00	0.00 0.00	500.00 600.00	0.00	0.00 0.00	0.00	0.00	0.00 0.00	0.00
				0.00		0.00	0.00		0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
			-,						
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,478.00	0.00	0.00	3,478.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.22	67.59	3,500.00	0.02	0.04	-0.01	1.00	1.00	0.00
3,600.00	1.22	67.59	3,599.99	0.50	1.20	-0.36	1.00	1.00	0.00
3,700.00	2.22	67.59	3,699.94	1.64	3.98	-1.19	1.00	1.00	0.00
3,800.00	3.22	67.59	3,799.83	3.45	8.36	-2.50	1.00	1.00	0.00
3 000 00			3 000 60						
3,900.00	4.22	67.59	3,899.62	5.92	14.36	-4.29	1.00	1.00	0.00
4,000.00	5.22	67.59	3,999.28	9.06	21.97	-6.56	1.00	1.00	0.00
4,100.00	6.22	67.59	4,098.78	12.86	31.18	-9.31	1.00	1.00	0.00
4,200.00	7.22	67.59	4,198.09	17.32	42.00	-12.53	1.00	1.00	0.00
4,300.00	8.22	67.59	4,297.18	22.44	54.42	-16.24	1.00	1.00	0.00
4,400.00	9.22	67.59	4,396.03	28.22	68.43	-20.42	1.00	1.00	0.00
4,500.00	10.22	67.59	4,494.59	34.66	84.04	-25.08	1.00	1.00	0.00
4,600.00	11.22	67.59	4,592.84	41.75	101.24	-30.21	1.00	1.00	0.00
4,700.00	12.22	67.59	4,690.76	49.49	120.02	-35.82	1.00	1.00	0.00
4,800.00	13.22	67.59	4,788.30	57.88	140.37	-41.89	1.00	1.00	0.00
4,878.30	14.00	67.59	4,864.40	64.91	157.41	-46.98	1.00	1.00	0.00
4,900.00	14.00	67.59	4,885.46	66.91	162.26	-48.43	0.00	0.00	0.00
5,000.00	14.00	67.59	4,982.49	76.13	184.63	-55.10	0.00	0.00	0.00
5,100.00	14.00	67.59	5,079.51	85.36	207.00	-61.78	0.00	0.00	0.00
5,200.00	14.00	67.59	5,176.54	94.58	229.37	-68.46	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

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 5,400.00 5,500.00 5,600.00	14.00 14.00 14.00 14.00	67.59 67.59 67.59	5,273.57 5,370.60 5,467.63 5,564.65	103.81 113.03 122.26 131.48	251.74 274.11 296.48 318.85	-75.13 -81.81 -88.49 -95.16	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
5,700.00	14.00	67.59	5,661.68	140.71	341.22	-101.84	0.00	0.00	0.00
5,800.00	14.00	67.59	5,758.71	149.93	363.59	-108.52	0.00	0.00	0.00
5,900.00	14.00	67.59	5,855.74	159.16	385.96	-115.19	0.00	0.00	0.00
6,000.00	14.00	67.59	5,952.77	168.38	408.33	-121.87	0.00	0.00	0.00
6,100.00	14.00	67.59	6,049.80	177.60	430.70	-128.54	0.00	0.00	0.00
6,200.00	14.00	67.59	6,146.82	186.83	453.07	-135.22	0.00	0.00	0.00
6,300.00	14.00	67.59	6,243.85	196.05	475.44	-141.90	0.00	0.00	0.00
6,400.00	14.00	67.59	6,340.88	205.28	497.81	-148.57	0.00	0.00	0.00
6,500.00	14.00	67.59	6,437.91	214.50	520.18	-155.25	0.00	0.00	0.00
6,600.00	14.00	67.59	6,534.94	223.73	542.55	-161.93	0.00	0.00	0.00
6,700.00	14.00	67.59	6,631.97	232.95	564.92	-168.60	0.00	0.00	0.00
6,800.00	14.00	67.59	6,728.99	242.18	587.29	-175.28	0.00	0.00	0.00
6,900.00	14.00	67.59	6,826.02	251.40	609.66	-181.96	0.00	0.00	0.00
7,000.00	14.00	67.59	6,923.05	260.62	632.03	-188.63	0.00	0.00	0.00
7,100.00	14.00	67.59	7,020.08	269.85	654.40	-195.31	0.00	0.00	0.00
7,200.00	14.00	67.59	7,117.11	279.07	676.77	-201.98	0.00	0.00	0.00
7,300.00	14.00	67.59	7,214.14	288.30	699.14	-208.66	0.00	0.00	0.00
7,400.00	14.00	67.59	7,311.16	297.52	721.51	-215.34	0.00	0.00	0.00
7,500.00	14.00	67.59	7,408.19	306.75	743.88	-222.01	0.00	0.00	0.00
7,600.00	14.00	67.59	7,505.22	315.97	766.25	-228.69	0.00	0.00	0.00
7,700.00	14.00	67.59	7,602.25	325.20	788.62	-235.37	0.00	0.00	0.00
7,800.00	14.00	67.59	7,699.28	334.42	810.99	-242.04	0.00	0.00	0.00
7,900.00	14.00	67.59	7,796.31	343.64	833.36	-248.72	0.00	0.00	0.00
8,000.00	14.00	67.59	7,893.33	352.87	855.73	-255.40	0.00	0.00	0.00
8,100.00	14.00	67.59	7,990.36	362.09	878.10	-262.07	0.00	0.00	0.00
8,200.00	14.00	67.59	8,087.39	371.32	900.47	-268.75	0.00	0.00	0.00
8,300.00	14.00	67.59	8,184.42	380.54	922.84	-275.42	0.00	0.00	0.00
8,400.00	14.00	67.59	8,281.45	389.77	945.21	-282.10	0.00	0.00	0.00
8,406.82	14.00	67.59	8,288.06	390.40	946.74	-282.56	0.00	0.00	0.00
8,500.00	13.63	107.33	8,378.75	391.43	967.68	-281.25	10.00	-0.40	42.65
8,600.00	19.09	137.82	8,474.84	375.76	989.97	-263.20	10.00	5.46	30.48
8,700.00	27.20	152.98	8,566.79	343.20	1,011.39	-228.46	10.00	8.11	15.16
8,800.00	36.21	161.30	8,651.82	294.75	1,031.29	-178.09	10.00	9.01	8.33
8,900.00	45.59	166.62	8,727.35	231.86	1,049.07	-113.61	10.00	9.38	5.32
9,000.00	55.15	170.44	8,791.07	156.46	1,064.19	-37.00	10.00	9.56	3.82
9,100.00	64.81	173.46	8,841.05	70.83	1,076.18	49.44	10.00	9.65	3.02
9,200.00	74.51	176.03	8,875.78	-22.43	1,084.70	143.06	10.00	9.71	2.57
9,300.00	84.25	178.36	8,894.19	-120.47	1,089.47	241.03	10.00	9.73	2.34
9,359.80	90.07	179.72	8,897.15	-180.16	1,090.46	300.46	10.00	9.74	2.26
9,400.00	90.07	179.72	8,897.10	-220.36	1,090.66	340.43	0.00	0.00	0.00
9,500.00	90.07	179.72	8,896.98	-320.36	1,091.16	439.86	0.00	0.00	0.00
9,600.00	90.07	179.72	8,896.86	-420.36	1,091.66	539.29	0.00	0.00	0.00
9,700.00	90.07	179.72	8,896.73	-520.36	1,092.15	638.73	0.00	0.00	0.00
9,800.00	90.07	179.72	8,896.61	-620.36	1,092.65	738.16	0.00	0.00	0.00
9,900.00	90.07	179.72	8,896.49	-720.36	1,093.15	837.59	0.00	0.00	0.00
10,000.00	90.07	179.72	8,896.36	-820.35	1,093.64	937.02	0.00	0.00	0.00
10,100.00	90.07	179.72	8,896.24	-920.35	1,094.14	1,036.45	0.00	0.00	0.00
10,200.00	90.07	179.72	8,896.12	-1,020.35	1,094.64	1,135.89	0.00	0.00	0.00
10,300.00	90.07	179.72	8,895.99	-1,120.35	1,095.13	1,235.32	0.00	0.00	0.00
10,400.00	90.07	179.72	8,895.87	-1,220.35	1,095.63	1,334.75	0.00	0.00	0.00
10,500.00	90.07	179.72	8,895.75	-1,320.35	1,096.13	1,434.18	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

Grid

elibore: esign:	Permitting Pla	an							
lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,600.00	90.07	179.72	8,895.62	-1,420.35	1,096.62	1,533.62	0.00	0.00	0.00
10,700.00	90.07	179.72	8,895.50	-1,520.35	1,097.12	1,633.05	0.00	0.00	0.00
10,800.00	90.07	179.72	8,895.37	-1,620.34	1,097.62	1,732.48	0.00	0.00	0.00
10,900.00 11,000.00	90.07 90.07	179.72 179.72	8,895.25 8,895.13	-1,720.34 -1,820.34	1,098.11 1,098.61	1,831.91 1,931.34	0.00 0.00	0.00 0.00	0.00 0.00
11,100.00	90.07	179.72	8,895.00	-1,920.34	1,099.11	2,030.78	0.00	0.00	0.00
11,200.00	90.07	179.72	8,894.88	-1,920.34	1,099.11	2,030.76	0.00	0.00	0.00
11,300.00	90.07	179.72	8,894.76	-2,120.34	1,100.10	2,229.64	0.00	0.00	0.00
11,400.00	90.07	179.72	8,894.63	-2,120.34	1,100.60	2,329.07	0.00	0.00	0.00
11,500.00	90.07	179.72	8,894.51	-2,320.33	1,100.00	2,428.51	0.00	0.00	0.00
11,600.00	90.07	179.72	8,894.39	-2,420.33	1,101.59	2,527.94	0.00	0.00	0.00
11,700.00	90.07	179.72	8,894.26	-2,520.33	1,102.09	2,627.37	0.00	0.00	0.00
11,800.00	90.07	179.72	8,894.14	-2,620.33	1,102.59	2,726.80	0.00	0.00	0.00
11,900.00	90.07	179.72	8,894.01	-2,720.33	1,103.08	2,826.23	0.00	0.00	0.00
12,000.00	90.07	179.72	8,893.89	-2,820.33	1,103.58	2,925.67	0.00	0.00	0.00
12,100.00	90.07	179.72	8,893.77	-2,920.33	1,104.08	3,025.10	0.00	0.00	0.00
12,200.00	90.07	179.72	8,893.64	-3,020.33	1,104.57	3,124.53	0.00	0.00	0.00
12,300.00	90.07	179.72	8,893.52	-3,120.32	1,105.07	3,223.96	0.00	0.00	0.00
12,400.00	90.07	179.72	8,893.40	-3,220.32	1,105.57	3,323.40	0.00	0.00	0.00
12,500.00	90.07	179.72	8,893.27	-3,320.32	1,106.06	3,422.83	0.00	0.00	0.00
12,600.00	90.07	179.72	8,893.15	-3,420.32	1,106.56	3,522.26	0.00	0.00	0.00
12,700.00	90.07	179.72	8,893.03	-3,520.32	1,107.06	3,621.69	0.00	0.00	0.00
12,800.00	90.07	179.72	8,892.90	-3,620.32	1,107.55	3,721.12	0.00	0.00	0.00
12,900.00	90.07	179.72	8,892.78	-3,720.32	1,108.05	3,820.56	0.00	0.00	0.00
13,000.00	90.07	179.72	8,892.66	-3,820.32	1,108.55	3,919.99	0.00	0.00	0.00
13,100.00	90.07	179.72	8,892.53	-3,920.31	1,109.04	4,019.42	0.00	0.00	0.00
13,200.00	90.07	179.72	8,892.41	-4,020.31	1,109.54	4,118.85	0.00	0.00	0.00
13,300.00	90.07	179.72	8,892.28	-4,120.31	1,110.04	4,218.29	0.00	0.00	0.00
13,400.00	90.07	179.72	8,892.16	-4,220.31	1,110.53	4,317.72	0.00	0.00	0.00
13,500.00	90.07	179.72	8,892.04	-4,320.31	1,111.03	4,417.15	0.00	0.00	0.00
13,600.00	90.07	179.72	8,891.91	-4,420.31	1,111.53	4,516.58	0.00	0.00	0.00
13,700.00	90.07	179.72	8,891.79	-4,520.31	1,112.02	4,616.01	0.00	0.00	0.00
13,800.00	90.07	179.72	8,891.67	-4,620.30	1,112.52	4,715.45	0.00	0.00	0.00
13,900.00	90.07	179.72	8,891.54	-4,720.30	1,113.02	4,814.88	0.00	0.00	0.00
14,000.00	90.07	179.72	8,891.42	-4,820.30	1,113.51	4,914.31	0.00	0.00	0.00
14,100.00	90.07	179.72	8,891.30	-4,920.30	1,114.01	5,013.74	0.00	0.00	0.00
14,200.00	90.07	179.72	8,891.17	-5,020.30	1,114.51	5,113.18	0.00	0.00	0.00
14,300.00	90.07	179.72	8,891.05	-5,120.30	1,115.00	5,212.61	0.00	0.00	0.00
14,400.00	90.07	179.72	8,890.93	-5,220.30	1,115.50	5,312.04	0.00	0.00	0.00
14,500.00	90.07	179.72	8,890.80	-5,320.30	1,116.00	5,411.47	0.00	0.00	0.00
14,600.00	90.07	179.72	8,890.68	-5,420.29	1,116.49	5,510.90	0.00	0.00	0.00
14,700.00	90.07	179.72	8,890.55	-5,520.29	1,116.99	5,610.34	0.00	0.00	0.00
14,800.00	90.07	179.72	8,890.43	-5,620.29	1,117.49	5,709.77	0.00	0.00	0.00
14,900.00	90.07	179.72	8,890.31	-5,720.29	1,117.98	5,809.20	0.00	0.00	0.00
15,000.00	90.07	179.72	8,890.18	-5,820.29	1,118.48	5,908.63	0.00	0.00	0.00
15,100.00	90.07	179.72	8,890.06	-5,920.29	1,118.98	6,008.07	0.00	0.00	0.00
15,200.00	90.07	179.72	8,889.94	-6,020.29 6.120.20	1,119.47	6,107.50	0.00	0.00	0.00
15,300.00 15,400.00	90.07	179.72	8,889.81 8,889.69	-6,120.29 -6,220.28	1,119.97	6,206.93	0.00	0.00 0.00	0.00 0.00
15,400.00	90.07 90.07	179.72 179.72	8,889.69 8,889.57	-6,220.28 -6,320.28	1,120.47 1,120.96	6,306.36 6,405.79	0.00 0.00	0.00	0.00
15,600.00	90.07	179.72	8,889.44	-6,420.28	1,121.46	6,505.23	0.00	0.00	0.00
15,700.00	90.07	179.72	8,889.32	-6,520.28	1,121.40	6,604.66	0.00	0.00	0.00
15,800.00	90.07	179.72	8,889.19	-6,620.28	1,121.90	6,704.09	0.00	0.00	0.00
15,900.00	90.07	179.72	8,889.07	-6,720.28	1,122.45	6,803.52	0.00	0.00	0.00
16,000.00	90.07	179.72	8,888.95	-6,820.28	1,123.45	6,902.96	0.00	0.00	0.00

Planning Report

Database: Company: HOPSPP

ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

Grid

Design:	Permitting Pia	ali							
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	90.07	179.72	8,888.82	-6,920.27	1,123.94	7,002.39	0.00	0.00	0.00
16,200.00	90.07	179.72	8,888.70	-7,020.27	1,124.44	7,101.82	0.00	0.00	0.00
16,300.00	90.07	179.72	8,888.58	-7,120.27	1,124.94	7,201.25	0.00	0.00	0.00
16,400.00	90.07	179.72	8,888.45	-7,220.27	1,125.43	7,300.68	0.00	0.00	0.00
16,500.00	90.07	179.72	8,888.33	-7,320.27	1,125.93	7,400.12	0.00	0.00	0.00
16,600.00	90.07	179.72	8,888.21	-7,420.27	1,126.43	7,499.55	0.00	0.00	0.00
16,700.00	90.07	179.72	8,888.08	-7,520.27	1,126.92	7,598.98	0.00	0.00	0.00
16,800.00	90.07	179.72	8,887.96	-7,620.27	1,127.42	7,698.41	0.00	0.00	0.00
16,900.00	90.07	179.72	8,887.84	-7,720.26	1,127.92	7,797.85	0.00	0.00	0.00
17,000.00	90.07	179.72	8,887.71	-7,820.26	1,128.41	7,897.28	0.00	0.00	0.00
17,100.00	90.07	179.72	8,887.59	-7,920.26	1,128.91	7,996.71	0.00	0.00	0.00
17,200.00	90.07	179.72	8,887.46	-8,020.26	1,129.41	8,096.14	0.00	0.00	0.00
17,300.00	90.07	179.72	8,887.34	-8,120.26	1,129.90	8,195.57	0.00	0.00	0.00
17,400.00	90.07	179.72	8,887.22	-8,220.26	1,130.40	8,295.01	0.00	0.00	0.00
17,500.00	90.07	179.72	8,887.09	-8,320.26	1,130.90	8,394.44	0.00	0.00	0.00
17,600.00	90.07	179.72	8,886.97	-8,420.26	1,131.39	8,493.87	0.00	0.00	0.00
17,700.00	90.07	179.72	8,886.85	-8,520.25	1,131.89	8,593.30	0.00	0.00	0.00
17,800.00	90.07	179.72	8,886.72	-8,620.25	1,132.39	8,692.74	0.00	0.00	0.00
17,900.00	90.07	179.72	8,886.60	-8,720.25	1,132.88	8,792.17	0.00	0.00	0.00
18,000.00	90.07	179.72	8,886.48	-8,820.25	1,133.38	8,891.60	0.00	0.00	0.00
18,100.00	90.07	179.72	8,886.35	-8,920.25	1,133.88	8,991.03	0.00	0.00	0.00
18,200.00	90.07	179.72	8,886.23	-9,020.25	1,134.37	9,090.46	0.00	0.00	0.00
18,300.00	90.07	179.72	8,886.11	-9,120.25	1,134.87	9,189.90	0.00	0.00	0.00
18,400.00	90.07	179.72	8,885.98	-9,220.24	1,135.37	9,289.33	0.00	0.00	0.00
18,500.00	90.07	179.72	8,885.86	-9,320.24	1,135.86	9,388.76	0.00	0.00	0.00
18,600.00	90.07	179.72	8,885.73	-9,420.24	1,136.36	9,488.19	0.00	0.00	0.00
18,700.00	90.07	179.72	8,885.61	-9,520.24	1,136.86	9,587.63	0.00	0.00	0.00
18,800.00	90.07	179.72	8,885.49	-9,620.24	1,137.35	9,687.06	0.00	0.00	0.00
18,900.00	90.07	179.72	8,885.36	-9,720.24	1,137.85	9,786.49	0.00	0.00	0.00
19,000.00	90.07	179.72	8,885.24	-9,820.24	1,138.35	9,885.92	0.00	0.00	0.00
19,100.00	90.07	179.72	8,885.12	-9,920.24	1,138.84	9,985.35	0.00	0.00	0.00
19,200.00	90.07	179.72	8,884.99	-10,020.23	1,139.34	10,084.79	0.00	0.00	0.00
19,300.00	90.07	179.72	8,884.87	-10,120.23	1,139.84	10,184.22	0.00	0.00	0.00
19,355.80	90.07	179.72	8,884.80	-10,176.03	1,140.11	10,239.70	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Time CC 6_7 - plan hits target ce - Point	0.00 nter	0.00	8,884.80	-10,176.03	1,140.11	445,744.25	637,853.27	32.225042	-104.021216
FTP (Time CC 6_7 - plan misses targe - Point	0.00 t center by 20	0.00 02.54ft at 89	8,897.80 31.27ft MD	342.32 (8748.64 TVI	1,087.87 D, 209.52 N, 1	456,261.73 054.10 E)	637,801.03	32.253954	-104.021286

Planning Report

Database: HOPSPP

Company: ENGINEERING DESIGNS

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com
Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1

Design: Permitting Plan

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Time CC 6_7 Federal Com 73H

RKB=25' @ 2984.80ft RKB=25' @ 2984.80ft

Grid

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	112.80	112.80	RUSTLER				
	539.80	539.80	SALADO				
	1,308.80	1,308.80	CASTILE				
	2,775.80	2,775.80	DELAWARE				
	2,814.80	2,814.80	BELL CANYON				
	3,686.85	3,686.80	CHERRY CANYON				
	4,935.40	4,919.80	BRUSHY CANYON				
	6,563.79	6,499.80	BONE SPRING				
	7,589.26	7,494.80	BONE SPRING 1ST				
	8,380.78	8,262.80	BONE SPRING 2ND				

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
3.478.00	3.478.00	0.00	0.00	Build 1°/100'
4,878.30	4,864.40	64.91	157.41	Hold 14° Tangent
8,406.82	8,288.06	390.40	946.74	KOP, Build & Turn 10°/100'
9,359.80	8,897.15	-180.16	1,090.46	Landing Point
19,355.80	8,884.80	-10,176.03	1,140.11	TD at 19355.80' MD

PROJECT DETAILS: NM DIRECTIONAL PLANS (NAD 1983)

OXY

Project: PRD NM DIRECTIONAL PLANS (NAD 1983)

Site: Time CC 6_7 Federal Com Well: Time CC 6_7 Federal Com 73H

Wellbore: Wellbore #1 Design: Permitting Plan Geodetic System: US State Plane 1983

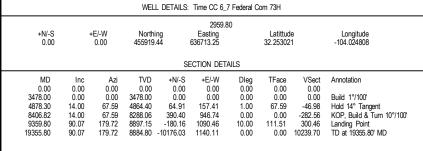
Datum: North American Datum 1983

Ellipsoid: GRS 1980

Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

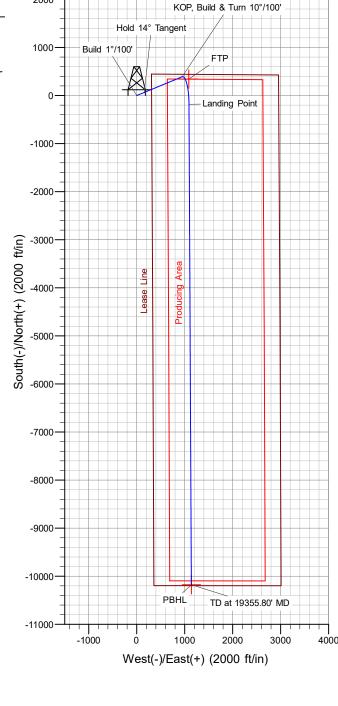
2000





Azimuths to Grid North True North: -0.16° Magnetic North: 6.52°

> Magnetic Field Strength: 47558.5nT Dip Angle: 59.90° Date: 12/12/2022 Model: HDGM_FILE



TD at 19355.80' MD

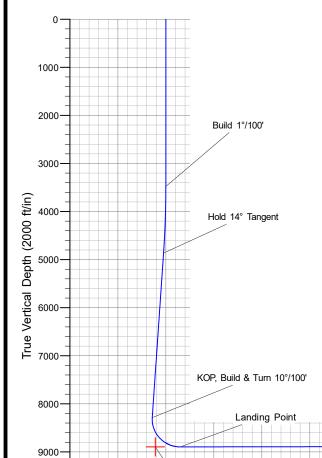
9000

10000

PBHL

11000

12000



Released to Imaging: 8/2/2023 3:45:14 PM

-1000

1000

2000

4000

5000

Vertical Section at 173.61° (2000 ft/in)

6000

7000

8000

10000

-2000

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: OXY USA INC

WELL NAME & NO.: | TIME CC 6-7 FED COM 73H

SURFACE HOLE FOOTAGE: 450'/N & 2330'/W

BOTTOM HOLE FOOTAGE | 20'/S & 1870'/W Sec 7 T24S R29E

LOCATION: Section 6, T.24 S., R.29 E., NMP

COUNTY: | Eddy County, New Mexico

COA

H2S	• Yes	C No	
Potash	None	© Secretary	© R-111-P
Cave/Karst Potential	C Low	• Medium	C High
Cave/Karst Potential	Critical		
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	• Multibowl	C 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	▼ COM	□ Unit
Special Requirements	☐ Batch Sundry		
Special Requirements	✓ Break Testing	✓ Offline	
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

Primary Casing Design:

Casing set depths recommendations have been altered based on BLM Geology feedback. Please follow COA set depth below

- 1. The **10-3/4** inch surface casing shall be set at approximately **400 feet** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14-3/4 inch** in diameter.
 - 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.

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

- 2. The 7-5/8 inch intermediate casing shall be set at approximately 8188 feet. Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - Operator will perform bradenhead squeeze and top-out cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 10-3/4" X 7-5/8" annulus. <u>Operator must top out cement after the bradenhead squeeze and verify cement to surface. Operator can also check TOC with Echo-meter. CBL must be run from TD of the 7-5/8"</u>

casing to surface if confidence is lacking on the quality of the bradenhead squeeze cement job. Submit results to BLM.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

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 casing shall be set at approximately **19356 feet** measured depth. 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.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 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 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 3500 (70% Working Pressure) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

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

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

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

Casing Clearance:

Operator casing variance is approved for the utilization of:

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

Operator shall clean up cycles until wellbore is clear of cuttings and any large debris, ensure cutting sizes are adequate "coffee ground or less" before cementing.

GENERAL REQUIREMENTS

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.

- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 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 intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead 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 Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The results of the test shall be reported to the appropriate BLM office.
 - f. All tests are required to be recorded on a calibrated test chart. A copy of the

BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

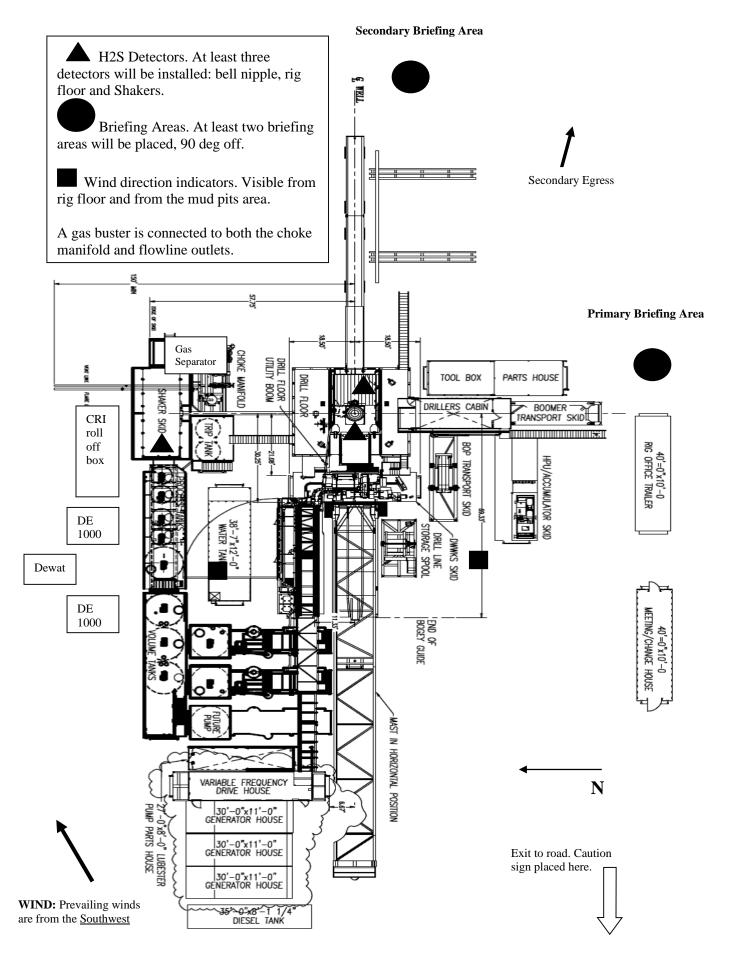
JS 5/22/2023 Reviewed by KPI

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 This section outlines the conditions and denotes steps

Procedure: to be taken in the event of an emergency.

Emergency equipment This section outlines the safety and emergency

Procedure: equipment that will be required for the drilling of this

well.

Training provisions: This section outlines the training provisions that must

be adhered to prior to drilling.

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

be contacted should an emergency exist.

Briefing: This section deals with the briefing of all people

involved in the drilling operation.

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

potential evacuation and any additional support

needed.

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

included to insure adherence to the plan.

General information: A general information section has been included to

supply support information.

Hydrogen Sulfide Training

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

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

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

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

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

Service company and visiting personnel

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

Emergency Equipment Requirements

1. 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 BLM Onshore Order #2.

Special control equipment:

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

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

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

3. 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. <u>Well Testing</u>

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.

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

Status check list

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

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

Checked by	7*	Date:
Checken by	/ •	. Date

Procedural check list during H2S events

Perform each tour:

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

Perform each week:

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

General evacuation plan

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

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

Emergency actions

Well blowout – if emergency

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

Person down location/facility

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

Toxic effects of hydrogen sulfide

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

Table i Toxicity of various gases

Common	Chemical	Specific	Threshold	Hazardous	Lethal concentration
name	formula	gravity	limit	limit	(3)
		(sc=1)	(1)	(2)	
Hydrogen	Hen	0.94	10 ppm	150 ppm/hr	300 ppm
Cyanide			• •	**	**
Hydrogen	H2S	1.18	10 ppm	250 ppm/hr	600 ppm
Sulfide			• •	**	**
Sulfur	So2	2.21	5 ppm	-	1000 ppm
Dioxide			* *		**
Chlorine	C12	2.45	1 ppm	4 ppm/hr	1000 ppm
			**	**	**
Carbon	Co	0.97	50 ppm	400 ppm/hr	1000 ppm
Monoxide			11	11	**
Carbon	Co2	1.52	5000 ppm	5%	10%
Dioxide			11		
Methane	Ch4	0.55	90,000 ppm	Combustibl	e 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 (%)	<u>Ppm</u>	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!

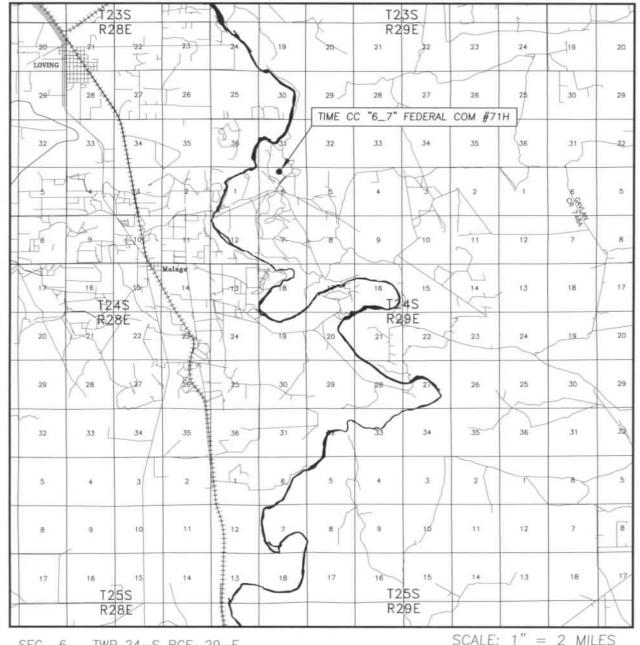
Remain calm – think!

- 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

VICINITY MAP



SEC. 6 TWP. 24-S RGE. 29-E N.M.P.M. SURVEY COUNTY_ EDDY

DESCRIPTION 450' FNL & 2270' FWL

ELEVATION 2959.6 OXY USA INC.

LEASE TIME CC "6_7" FEDERAL COM #71H

Asel Surveying, LLC

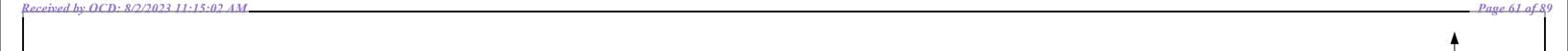
P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146

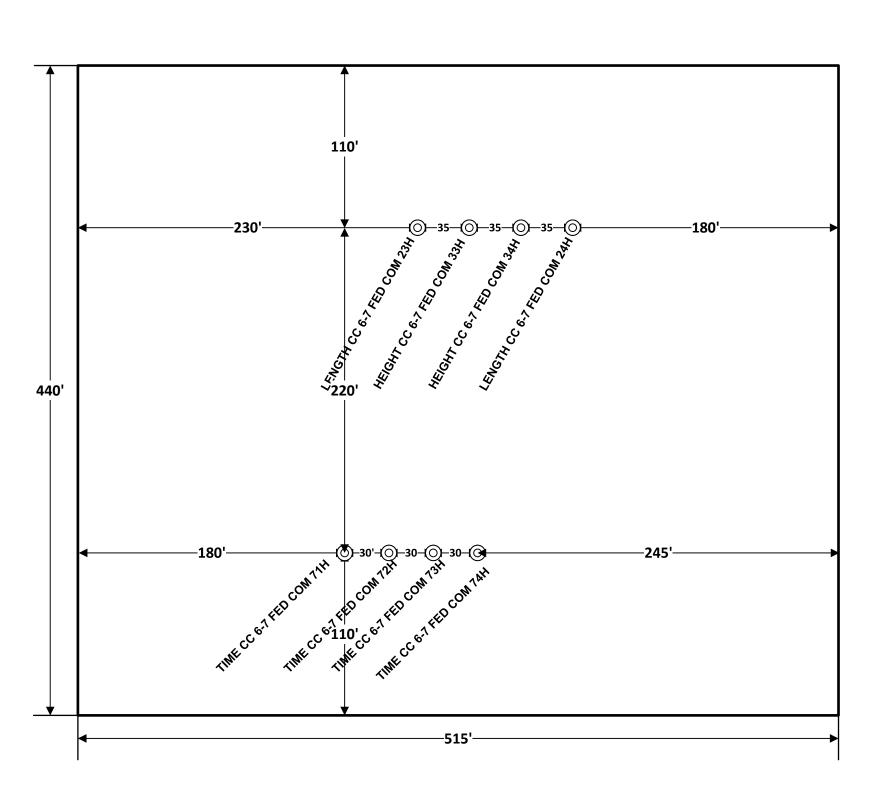


DIRECTIONS FROM THE INTERSECTION OF U.S. HWY. #285 AND COUNTY ROAD #731 (ONSUREZ ROAD) IN MALAGA, GO NORTH ON COUNTY ROAD #731 FOR 0.6 MILES, TURN RIGHT ON COUNTY ROAD #743 (BRAMBLE ROAD) AND GO EAST FOR 1.0 MILES, CONTINUE EAST ON COUNTY ROAD #745 (HARROUN ROAD) FOR 2.0 MILES, TURN LEFT AND GO NORTH FOR 0.6 MILES, TURN RIGHT AND GO EAST FOR 0.2 MILES, TURN RIGHT AND GO SOUTH FOR 0.1 MILES, TURN LEFT AND GO EAST FOR 40.0 FEET TO LOCATION.



OPERATOR





	REVISION BLOCK				ENGINEERING RECORD			
	NO.	DATE	DESCRIPTION	ВУ	СНК	АРР	ву	DATE
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RIG DIAGRAM

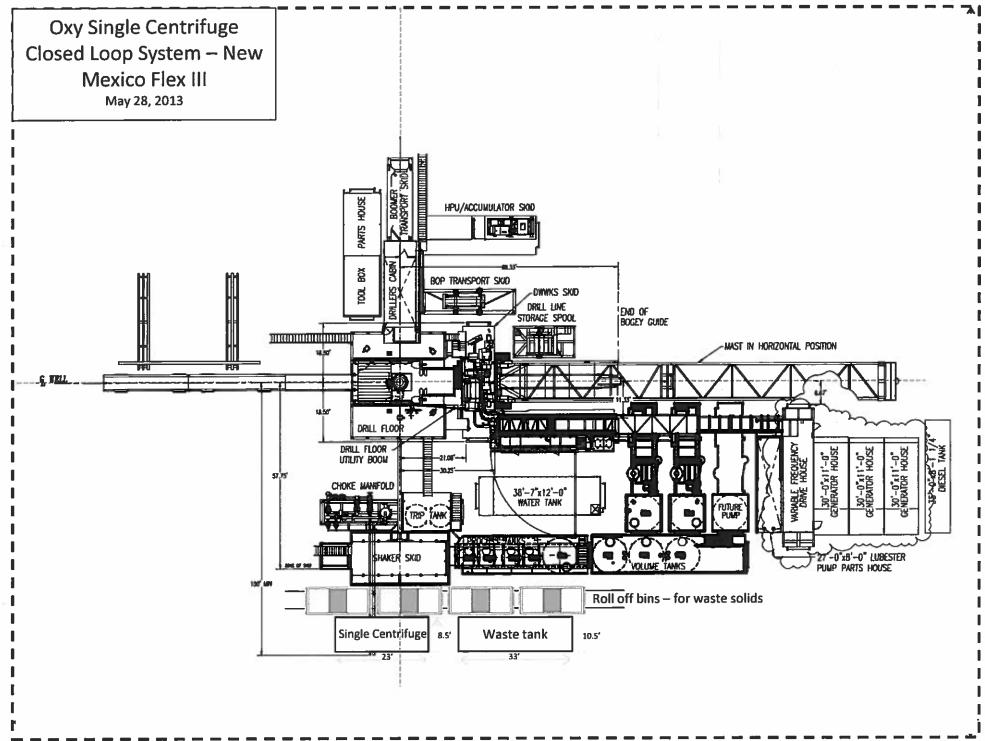
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LENGTH CC 6-7 FED COM 23H/24H, HEIGHT CC 6-7 FED COM 33H/
34H, TIME CC 6-7 FED COM 71H/72H/73H/74H

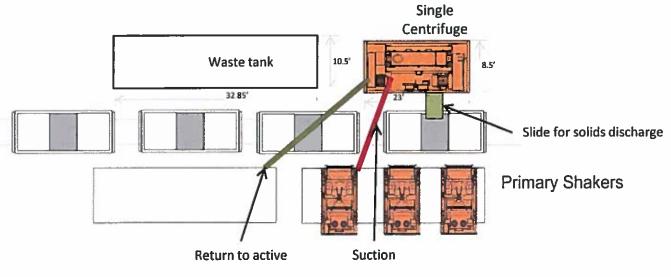
SECTION 6, TOWNSHIP 24S, RANGE 29E

EDDY COUNTY, NEW MEXICO

NORTH







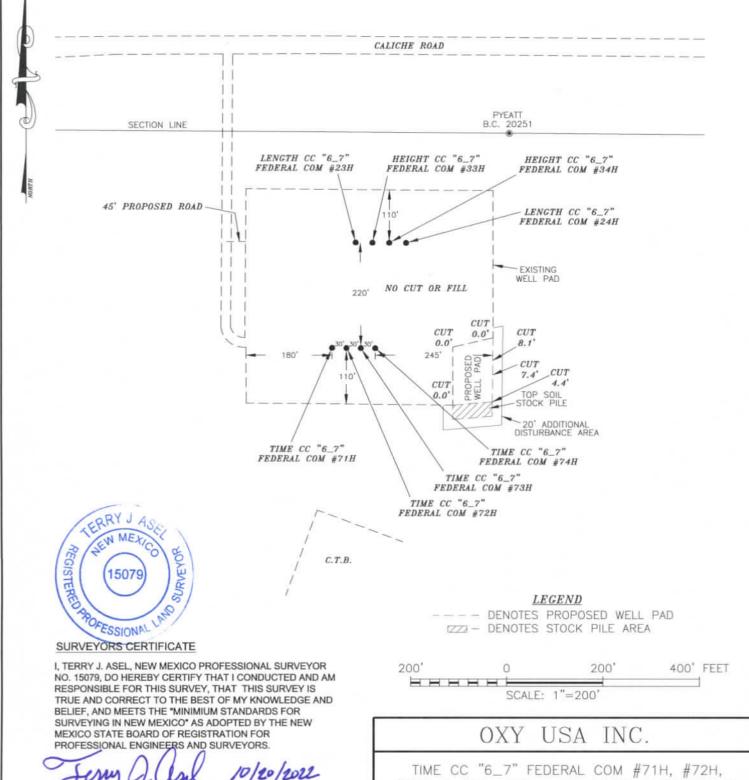




Oxy Single Centrifuge Closed Loop System – New Mexico Flex III May 28, 2013

OXY USA INC.

TIME CC "6_7" FEDERAL COM #71H, #72H, #73H & #74H CUT & FILL PLAN



TIME CC "6_7" FEDERAL COM #71H, #72H, #73H & #74H CUT & FILL PLAN IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 10/10/22	Sheet 1 of 1 Sheets
W.O. Number: 221010T0P0	Drawn By: KA Rev:
Date: 10/13/22	221010T0P0 Scale:1"=200'

Released to Imaging: 8/2/2023 3:45:14 PM

Terry J. Ase/

NM. R.P.L.S. No. 15079

Asel Surveying, LLC
P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146

AERIAL MAP



SCALE: NOT TO SCALE

SEC. 6 TWP. 24-S RGE. 29-E

SURVEY____N.M.P.M.

COUNTY EDDY

DESCRIPTION 450' FNL & 2330' FWL

ELEVATION _____ 2959.8'

OPERATOR OXY USA INC.

LEASE TIME CC "6_7" FEDERAL COM #73H

Asel Surveying, LLC
P.O. BOX 393 - 310 W. TAYLOR
HOBBS, NEW MEXICO - 575-393-9146



Measurements Datum of 1983

Geodetic American

- GPS North

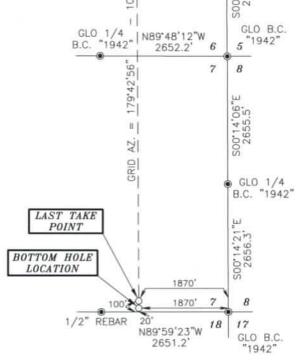
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SECTIONS 6 & 7, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO

1942" 36 PYEATT 31 S89'35'08"E B.C. 20251 S89*35'46"E B.C. 20251 T-23-S2649.2 2640.8 100 31 32 50 T-24-S 6 1870 6 5 1870 2666.8 R-29-E SURFACE LOCATION TIME CC "6_7" FEDERAL COM #73H KICK OFF POINT = 70'09'54 GRID AZ. 1156.13 FIRST TAKE GLO 1/4 3.C. "1942" POINT AL Z 0567.61 GLO B.C. 5"1942" N89'48'12"W

DRIVING DIRECTIONS:

FROM THE INTERSECTION OF U.S. HWY. #285 AND COUNTY ROAD #731 (ONSUREZ ROAD) IN MALAGA, GO NORTH ON COUNTY ROAD #731 FOR 0.6 MILES, TURN RIGHT ON COUNTY ROAD #743 (BRAMBLE ROAD) AND GO EAST FOR 1.0 MILÈS, CONTINUE EAST ON COUNTY ROAD #745 (HARROUN ROAD) FOR 2.0 MILES, TURN LEFT AND GO NORTH FOR 0.6 MILES, TURN RIGHT AND GO EAST FOR 0.2 MILES, TURN RIGHT AND GO SOUTH FOR 0.1 MILES, TURN LEFT AND GO EAST FOR 40.0 FEET TO LOCATION.





I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMIUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

Terry J. Asel N.M. R.P.L.S. No. 15079

Asel Surveying, LLC P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146



LEGEND

- DENOTES FOUND MONUMENT AS NOTED
- DENOTES CALCULATED CORNER

4000' FEET 2000' 2000' HHHHH SCALE: 1"=2000

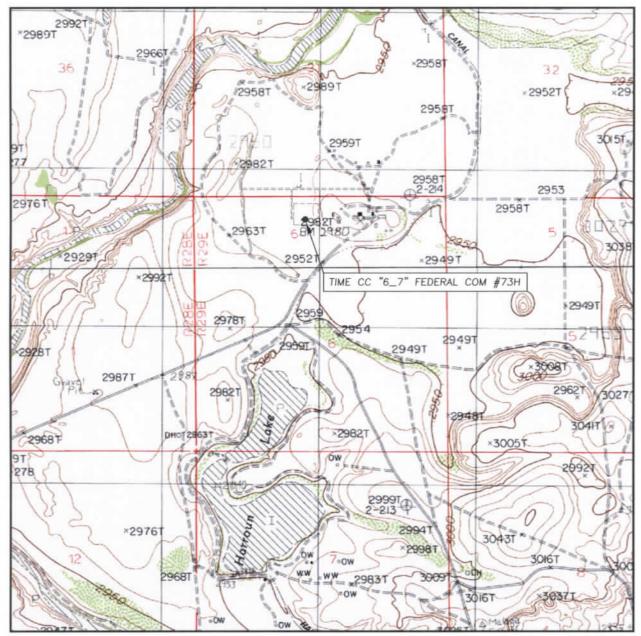
OXY USA INC.

TIME CC "6_7" FEDERAL COM #73H LOCATED AT 450' FNL & 2330' FWL IN SECTION 6, TOWNSHIP 24 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 10/10/22	Sheet 1 o	f 1 Sheets
W.O. Number:221010WL-c	Drawn By: KA	Rev:
Date: 10/12/22	221010WL-c	Scale:1"=2000'

Released to Imaging: 8/2/2023 3:45:14 PM

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 6 TWP. 24-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 450' FNL & 2330' FWL

ELEVATION _____2959.8'

OPERATOR OXY USA INC.

LEASE TIME CC "6_7" FEDERAL COM #73H

U.S.G.S. TOPOGRAPHIC MAP

LOVING, N.M.

Released to Imaging: 8/2/2023 3:45:14 PM

Asel Surveying, LLC _ P.O. BOX 393 - 310 W. TAYLOR HOBBS, NEW MEXICO - 575-393-9146





OXY U.S.A. INC.





Date Staked:	10-4-2022	
Lease / Well Name:	Time CC 6_7 Fed Com 73H	
Legal Description:	S6 T24S 29E, 450 FNL, 2330 FWL	
Latitude:	32 15′ 10.88″	NAD 83
Longitude:	-104 01′ 29.31″	NAD 83
X:	455860.38	NAD 27
Y:		NAD 27
Elevation:		IAD 27
Move information:	None	
County:	Eddy	
Surface Owner	Оху	
Nearest Residence:	Over a mile	
Nearest Water Well:	Unknown	
V-Door:	West	
Road Description:	Northwest from the west	
New Road:	45' or utilize existing road.	
Upgrade Existing Road:	TBD	
Interim Reclamation:	None	
Source of Caliche:	TBD	
Onsite Attendees:	No on-site per BLM Bryce Franklin	
Special Notes:		

Surface Use Plan of Operations

Operator Name/Number: OXY USA Inc. - 16696

Lease Name/Number: <u>Time CC 6-7 Federal Com 73H</u>

Pool Name/Number: <u>Pierce Crossing; Bone Spring (50371)</u>

Surface Location: 450' FNL 2330' FWL (3) NENW Sec 6 T24S R29E

Bottom Hole Location: 20 FSL 1870' FEL (0) SWSE Sec 7 T24S R29E

1. Existing Roads

- a. A copy of the USGS "Big Sinks, NM" quadrangle map is attached showing the proposed location. The well location is spotted on the map, which shows the existing road system.
- b. The well was staked by Terry Asel Certificate No. 15079 on 10/10/22.
- c. Directions to Location:

LEASE_TIME_CC "6_7" FEDERAL COM #71H

DIRECTIONS FROM THE INTERSECTION OF U.S. HWY. #285 AND COUNTY ROAD #731 (ONSUREZ ROAD) IN MALAGA, GO NORTH ON COUNTY ROAD #731 FOR 0.6 MILES, TURN RIGHT ON COUNTY ROAD #743

(BRAMBLE ROAD) AND GO EAST FOR 1.0 MILES, CONTINUE EAST ON COUNTY ROAD #745 (HARROUN ROAD) FOR 2.0 MILES, TURN LEFT AND GO NORTH FOR 0.6 MILES, TURN RIGHT AND GO EAST FOR 0.2 MILES, TURN RIGHT AND GO SOUTH FOR 0.1 MILES, TURN LEFT AND GO EAST FOR 40.0 FEET TO LOCATION.

2. New or Reconstructed Access Roads:

- a. All roads are existing for this well pad.
- b. All roads are existing. The maximum width of the road will be 14'. It will be crowned and made up of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent surface erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattle guards, grates or fence cuts will be required. Turnouts every 1000' as needed.
- e. Blade, water and repair existing caliche roads as needed.
- f. Water Bars will be incorporated every 200' during the construction of the road.

3. Location of Existing Wells:

Existing wells within a one-mile radius of the proposed well SHL are shown on attached plat.

4. Location of Existing and/or Proposed Facilities:

Central Processing Facility (CPF)

Well flowlines will be routed to the existing Dimension 6 CTB.

Production Flowlines

Each well will flow through 2 x 4" surface laid test flowlines and operating at less than 75% of the MAWP of the flowline per the survey plats from the well site to the CTB.

(1) ASEL SURVEYING, LLC Drawing No: 221010PL (Flowline): Surveyed: 10/11/22

Gas Lift

The well pad will utilize an existing 8" CS buried gas lift supply lines operating at < 1500 PSIG.

Electrical & Fiber Systems

Existing electrical and fiber overhead connections at the well pad will be utilized.

5. Location and types of Water Supply

This well will be drilled using a combination of water mud systems. It will be obtained from commercial water stations in the area and will be hauled to location by transport truck using existing and proposed roads. See the included water and caliche map.

6. Construction Materials:

Primary

All caliche utilized for the drilling pad and proposed access road will be obtained from an existing BLM/State/Fee approved pit or from prevailing deposits found on the location. Will use BLM recommended extra caliche from other locations close by for roads, if available. See the included water and caliche map.

Secondary

The secondary way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cubic yards is max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:

- a. The top 6" of topsoil is pushed off and stockpiled along the side of the location.
- b. An approximate 120' X 120' area is used within the proposed well site to remove caliche.
- c. Subsoil is removed and piled alongside the 120' X 120' within the pad site.
- d. When caliche is found, material will be stockpiled within the pad site to build the location and road.
- e. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
- f. Once the well is drilled the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in the attached plat.

7. Methods of Handling Waste Material:

- a. A closed loop system will be utilized consisting of above ground steel tanks and haul-off bins. Disposal of liquids, drilling fluids and cuttings will be disposed of at an approved facility. Solids-CRI, Liquids-Laguna
- b. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed, all contents will be removed and disposed of in an approved sanitary landfill.
- c. The supplier, including broken sacks, will pickup slats remaining after completion of well.
- d. A Porto-john will be provided for the rig crews. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.
- e. Disposal of fluids to be transported will be by the following companies. TFH Ltd, Laguna SWD Facility
- 8. Ancillary Facilities: None needed.

9. Well Site Layout:

The proposed well site layout with dimensions of the pad layout and equipment location.

V-Door – West CL Tanks – South

Pad – 440' X 515'– 8 Well Pad

10. Plans for Surface Reclamation:

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

11. Surface Ownership:

The surface is Fee, Oxy USA inc. owned for most of section 6.

12. Other Information:

- a. The vegetation cover is generally sparse consisting of mesquite, yucca, shinnery oak, sandsage and perennial native range grass. The topsoil is sandy in nature. Wildlife in the area is also sparse consisting of deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. There is no permanent or live water in the general proximity of the location.
- c. There are no dwellings within one mile of the proposed well site.
- d. Cultural Resources Examination—This well is located in the Permian Basin PA. Payment to be determined by BLM. This well shares the same pad as the Length CC 6-7 Fed Com 23H & 24H, the Height CC 6-7 Fed Com 33H & 34H and the Time CC 6-7 Federal Com 71H, 72H, 73H and 74H.
- e. Copy of this application has been mailed to SWCA Environmental Consultants, 5647 Jefferson St. NE, Albuquerque, NM 87109. No Potash leases within one mile of surface location.

13. Bond Coverage:

Bond coverage is Individual-NMB000862, Nationwide-ESB00226.

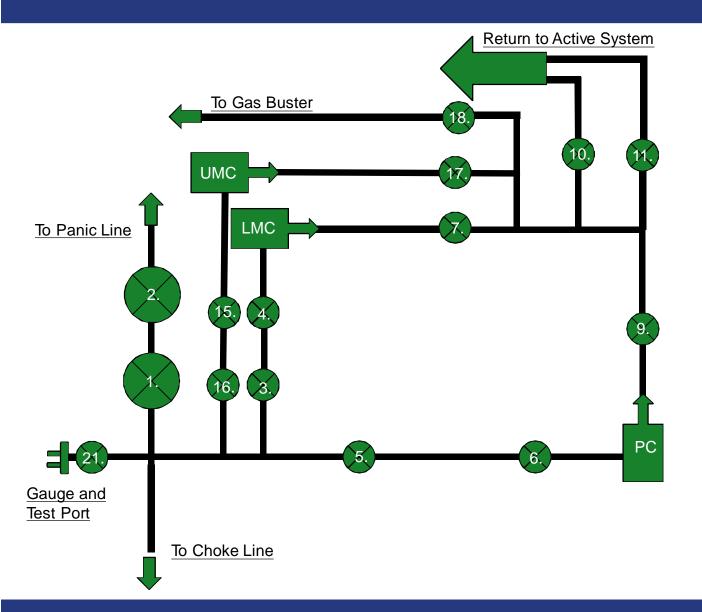
14. Operators Representatives:

The OXY Permian representatives responsible for ensuring compliance of the surface use plan are listed below:

Marshall McQueen Dev Asset Mgr P.O. Box 4294 Houston, TX 77210 Office – 713-366-5799 Cellular – 918-232-7283

Michael Wilson Operation Specialist P.O. Box 50250 Midland, TX 79710 Cellular – 575-631-6618

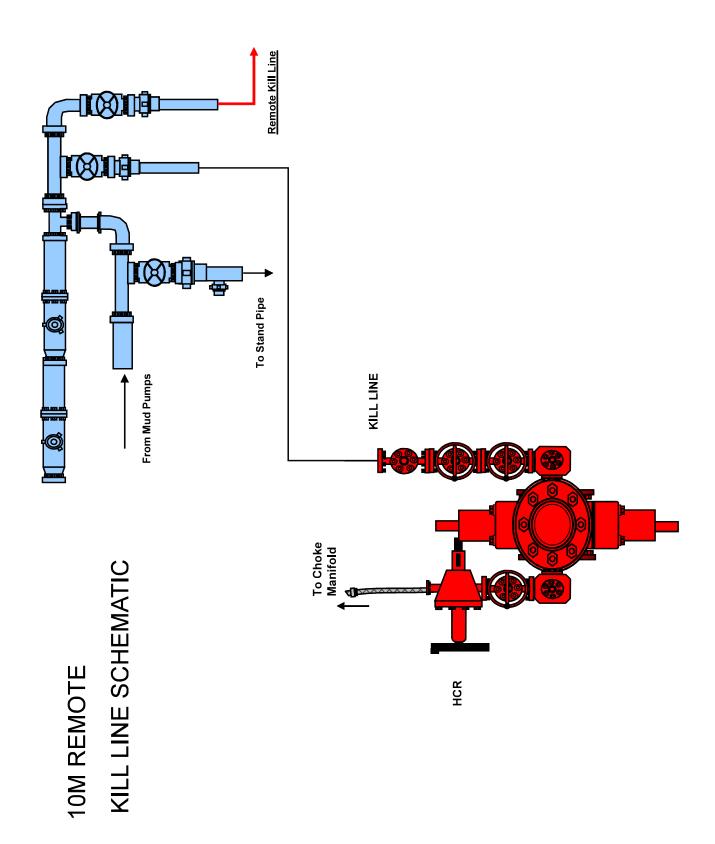
10M Choke Panel

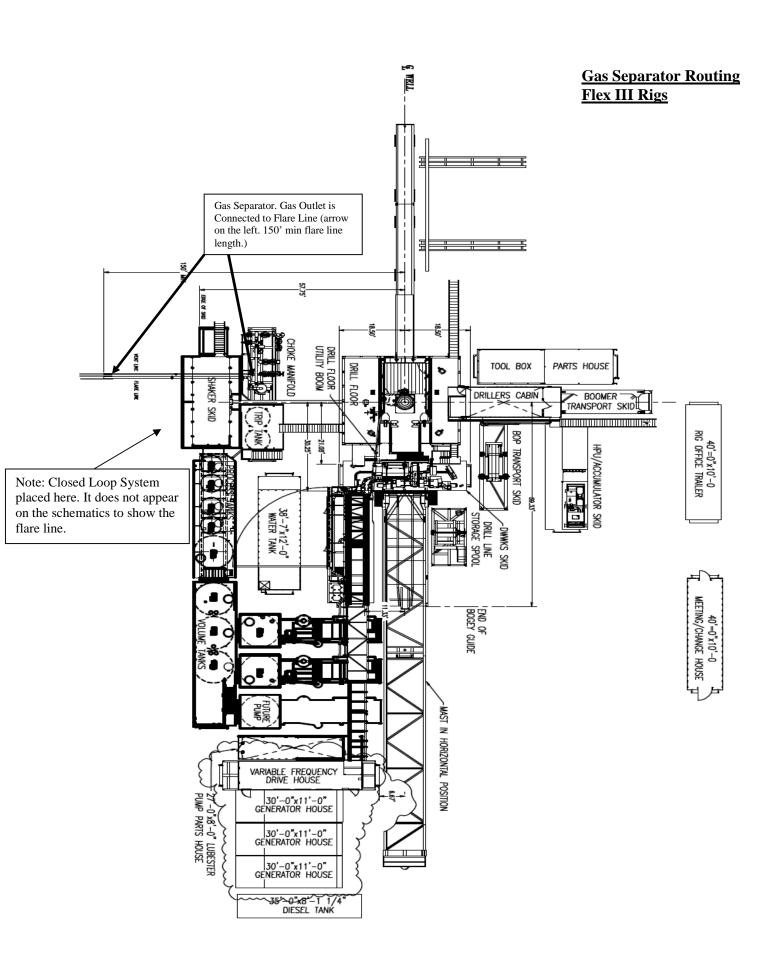


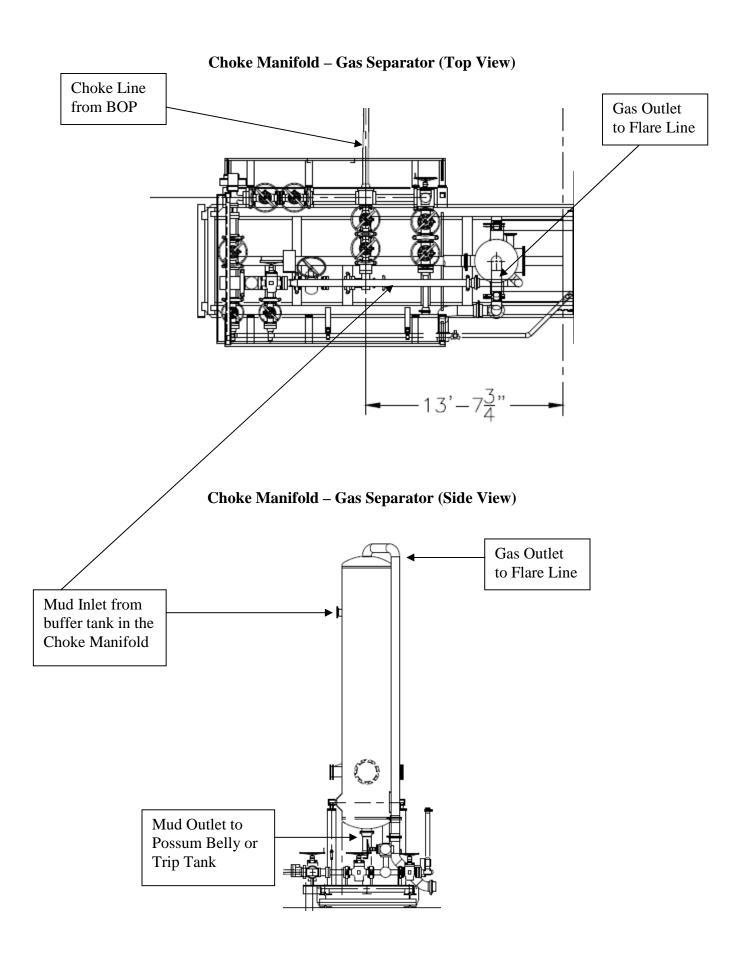
- 1. Choke Manifold Valve
- 2. Choke Manifold Valve
- 3. Choke Manifold Valve
- 4. Choke Manifold Valve
- 5. Choke Manifold Valve
- 6. Choke Manifold Valve
- 7. Choke Manifold Valve
- 8. PC Power Choke
- 9. Choke Manifold Valve
- 10. Choke Manifold Valve
- 11. Choke Manifold Valve
- 12. LMC Lower Manual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

ontiTech Rubber Industrial Kft. Quality Control Dept.

Position: Q.C. Manager

Date: 04. April. 2008

Page: 1/1

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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 Beattle Corporation.

Released to Imaging: 8/2/2023 3:45:14 PM

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@phoenixbeattie.com www.phoenixbeattie.com

→ PHOENIX Beattie

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 - RIG 13609 INDUSTRIAL ROAD HOUSTON, TX 77015	G 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	Qty Sent	Qty To Follow
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
	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
- 1	SC725-200CS SAFETY CLAMP 200MM 7.25T C/S GALVANISED	1	1	0

Continued...

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.



Fluid Technology

Quality Document

OLIAL I	TV CONT	201				
INSPECTION A	TY CONT IND TEST		ATE	CERT.	Nº:	746
	Phoenix Bea			P.O. N°	: 0	002491
CONTITECH ORDER N°:	412638	HOSE TYPE:	3" ID	Ch	oke and K	ill Hose
HOSE SERIAL Nº:	52777	NOMINAL / ACT	UAL LENG	TH:	10,67 m	
W.P. 68,96 MPa 10	0000 psi	T.P. 103,4	MPa 15	iaq 000	Duration:	60 ~ min
Pressure test with water at ambient temperature						
	See	attachment.	(1 page)			
						-
↑ 10 mm = 10 Min. → 10 mm = 25 MPa						.*
		COUPL	INGS			
Туре		Serial Nº		Quality		Heat Nº
3" coupling with	917	913		AISI 4130		T 7 998A
4 1/16" Flange end			1	AISI 4130		26984

INFOCHIP INSTALLI	≣D					API Spec 16 C mperature rate:"B"
All metal parts are flawless						
WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE			RED IN ACC	ORDANCE W	ITH THE TER	MS OF THE ORDER AND
Date:	Inspector		Quality Co			
04. April. 2008	Adjusted now, on an extensive tensive extend by		15ac	Ind Qualit	iTech Rubbe instrial Kft. y Control Dep (1)	

Form No 100/12

→ PHOENIX Beattie

Phoenix Beattie 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 1437 SOUTH BOULDER TULSA, OK 74119		Delivery / Address HELMERICH & PAYNE IDC ATTN: JOE STEPHENSON - RIC 13609 INDUSTRIAL ROAD HOUSTON, TX 77015	G 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	Qty Sent	Oty To Follow
4	SC725-132CS SAFETY CLAMP 132MM 7.25T C/S GALVANIZED C/W BOLTS	1	1	0
	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:

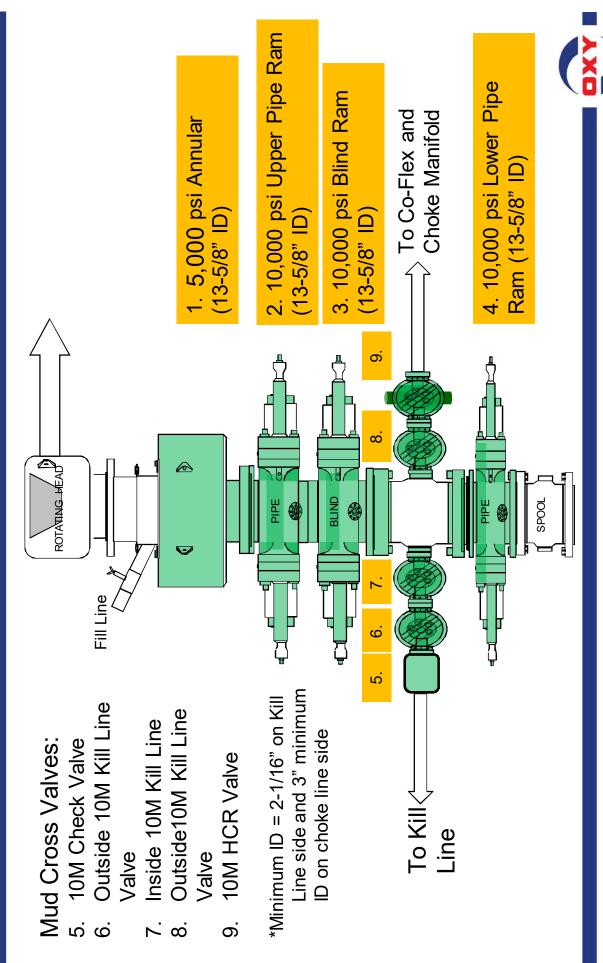
Received In Good Condition: Signature

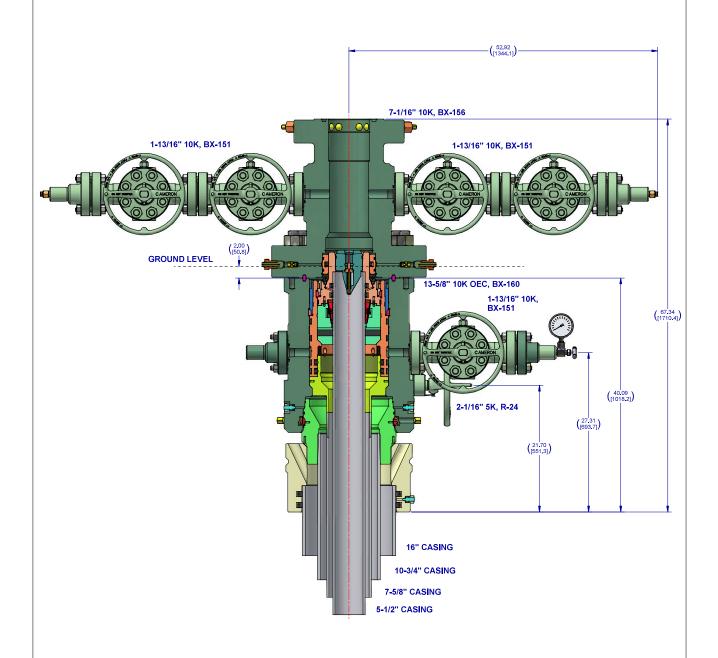
Print Name

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	ITIAL	
SURFACE TREATMENT	DO NOT SC	ALE		CAMERON	SURFACE
	DRAWN BY:	DATE	W/	A Schlumberger Company	SYSTEMS
	D. GOTTUNG	2 Dec 21		A Schlumberger Company	
MATERIAL & HEAT TREAT	CHECKED BY:	DATE			
	D, GOTTUNG	2 Dec 21		OXY 13-5/8" 10K AD/	APT
	APPROVED BY:	DATE	1	16" X 10-3/4" X 7-5/8" >	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:

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 Onshore Oil and Gas Order No. 2 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 Onshore Oil and Gas Order No. 2 and 19.15.16 of the OCD Rules.
- External: Mud Weight to TOC, cement mix water gradient (8.4 ppg) below TOC, and pore pressure in open hole.

CSG Test (Production)

- o Internal:
 - For Drilling: Displacement fluid + pressure required to comply with regulatory casing test pressures. This will comply with both Onshore Oil and Gas Order No. 2 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.

o 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)

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

Bullheading (Surface / Intermediate)

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

Gas Kick (Intermediate)

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

Tubing Leak Near Surface While Producing (Production)

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

Tubing Leak Near Surface While Stimulating (Production)

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

Injection / Stimulation Down Casing (Production)

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

b) Collapse Loads

Lost Circulation (Surface / Intermediate)

- Internal: Lost circulation at the TD of the next hole section, and the fluid level falls to a depth where the hydrostatic of the mud equals pore pressure at the depth of the lost circulation zone.
- External: MW of the drilling mud that was in the hole when the casing was run.

Cementing (Surface / Intermediate / Production)

- Internal: Displacement fluid density.
- External: Mud weight from TOC to surface and cement slurry weight from TOC to casing shoe.

Full Evacuation (Production)

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

c) Tension Loads

Running Casing (Surface / Intermediate / Production)

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

Green Cement (Surface / Intermediate / Production)

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



TenarisHydril Wedge 425®



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

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

Pipe Body Data

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

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

5.777 in.
4.734 in.
5.823 in.
3.77
Regular

Performance	
Tension Efficiency	90 %
Joint Yield Strength	577 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	90 %
Compression Strength	577 x1000 lb
Max. Allowable Bending	82 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,700 ft-lb
Optimum	19,600 ft-lb
Maximum	21,600 ft-lb
Operation Limit Torques	
Operating Torque	29,000 ft-lb
Yield Torque	36,000 ft-lb

Notes

This connection is fully interchangeable with: TORQ® SFW $^{\text{m}}$ - 5.5 in. - 0.361 in. Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

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

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TenarisHydril Wedge 441®



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

Outside Diameter	5.500 in.	Wall Thickness	0.361 in.	Grade	P110-CY
Min. Wall Thickness	87.50 %	Drift	API Standard	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

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

Performance	
Body Yield Strength	641 x1000 lb
Min. Internal Yield Pressure	12,640 psi
SMYS	110,000 psi
Collapse Pressure	11,100 psi

Connection Data

Geometry	
Connection OD	5.852 in.
Coupling Length	8.714 in.
Connection ID	4.778 in.
Make-up Loss	3.780 in.
Threads per inch	3.40
Connection OD Option	Regular

Performance	
Tension Efficiency	81.50 %
Joint Yield Strength	522 x1000 lb
Internal Pressure Capacity	12,640 psi
Compression Efficiency	81.50 %
Compression Strength	522 x1000 lb
Max. Allowable Bending	71 °/100 ft
External Pressure Capacity	11,100 psi

Make-Up Torques	
Minimum	15,000 ft-lb
Optimum	16,000 ft-lb
Maximum	19,200 ft-lb
Operation Limit Torques	
Operating Torque	32,000 ft-lb
Yield Torque	38,000 ft-lb
Buck-On	
Minimum	19,200 ft-lb
Maximum	20,700 ft-lb

Notes

This connection is fully interchangeable with: Wedge 441% - 5.5 in. - 0.304 in. Connections with Dopeless% Technology are fully compatible with the same connection in its Standard version

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

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TenarisHydril

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	5
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

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

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

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

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

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

CONDITIONS

Action 246874

CONDITIONS

Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	246874	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	8/2/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/2/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	8/2/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/2/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	8/2/2023
ward.rikala	If a bradenhead cement job is to be used for the cementing of the intermediate casing, then OCD is requiring a CBL to confirm the integrity of the cement behind the intermediate casing.	8/2/2023