Form 3160-3 (March 2012) Carlsbad Fiel OCD Ho	DDS	OCT 27 2016		OMB No	APPROVED 0. 1004-0137 ctober 31, 2014
UNITED STATES DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR	RECEIVE	D	5. Lease Serial No. NMNM118723	
APPLICATION FOR PERMIT TO				6. If Indian, Allotee	or Tribe Name
la. Type of work: 🗹 DRILL 🗌 REENTE	ER			7. If Unit or CA Agree	ement, Name and No.
lb. Type of Well: Oil Well Gas Well Other	Sin	ngle Zone Multip	le Zone	8. Lease Name and W SD WE 23 FED P2	
2. Name of Operator CHEVRON USA INC (4323)	1			9. API Well No. 30-025-	43462
3a. Address 6301 Deauville Blvd. Midland TX 79706	3b. Phone No (432)687-7	. (include area code) 7866		10. Field and Pool, or I JENNINGS / UPPE	1
4. Location of Well (Report location clearly and in accordance with an				11. Sec., T. R. M. or B	lk. and Survey or Area
At surface SWSE / 260 FSL / 2653 FWL / LAT 32.02148 At proposed prod. zone NWNE / 180 FNL / 2290 FEL / LAT			2	SEC 23 / T26S / R	32E / NMP
 4. Distance in miles and direction from nearest town or post office* 33 miles 				12. County or Parish LEA	13. State NM
5. Distance from proposed* location to nearest 260 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of a 1280	acres in lease	17. Spacin 320	ng Unit dedicated to this	well
 Distance from proposed location* to nearest well, drilling, completed, 25 feet applied for, on this lease, ft. 	19. Propose 8995 feet	d Depth / 19192 feet	20. BLM/	BIA Bond No. on file A0329	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3123 feet	22 Approxi 01/01/201	mate date work will star 17	rt*	23. Estimated duration 120 days	n
	24. Atta				
 Che following, completed in accordance with the requirements of Onsho Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 		 Bond to cover the Item 20 above). Operator certified 	he operatio	ons unless covered by ar	n existing bond on file (see s may be required by the
25. Signature (Electronic Submission)		(Printed/Typed) se Pinkerton / Ph: (4	43 <mark>2)687-</mark> 7	7375	Date 06/15/2016
Title Regulatory Specialist					
Approved by (Signature) (Electronic Submission)		(Printed/Typed) ge MacDonell / Ph:	(575)234-	-5901	Date 10/06/2016
Title Field Manager	Office	BS			did a the co
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	is legal or equi	table title to those righ	ts in the sut	bject lease which would o	entitle the applicant to
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious or fraudulent statements or representations as	rime for any p to any matter v	erson knowingly and w vithin its jurisdiction.	villfully to n	nake to any department of	or agency of the United
(Continued on page 2)				*(I	tructions on page 2)

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AFMSS U.S. Department of the Interior

BUREAU OF LAND MANAGEMENT

APD ID: 10400002204 Operator Name: CHEVRON USA INC Well Name: SD WE 23 FED P25 Well Type: OIL WELL

Submission Date: 06/15/2016 Federal/Indian APD: FED

Highlight All Changes

10/06/2016

APD Print Report

Well Number: 3H Well Work Type: Drill

Application

Section 1 - General

APD ID: 10400002204 Tie to previous NOS? Submission Date: 06/15/2016 **BLM Office: HOBBS** User: Denise Pinkerton Title: Regulatory Specialist Federal/Indian APD: FED Is the first lease penetrated for production Federal or Indian? FED Lease number: NMNM118723 Lease Acres: 1280 Surface access agreement in place? Allotted? Reservation: Agreement in place? NO Federal or Indian agreement: Agreement number: Agreement name: Keep application confidential? NO Permitting Agent? NO APD Operator: CHEVRON USA INC **Operator letter of designation:** Keep application confidential? NO

Operator Info

Operator Organization Name: CHEVRON USA INC Operator Address: 6301 Deauville Blvd. Operator PO Box: Operator City: Midland State: TX Operator Phone: (432)687-7866 Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO Well in Master SUPO? NO Well in Master Drilling Plan? NO

Mater Development Plan name: Master SUPO name: Master Drilling Plan name:

Zip: 79706

Well Name: SD WE 23 FED P25 Well Number: 3H Well API Number: Field/Pool or Exploratory? Field and Pool Field Name: JENNINGS Pool Name: UPPER BN SPR SHALE Is the proposed well in an area containing other mineral resources? OIL Describe other minerals: Is the proposed well in a Helium production area? N Use Existing Well Pad? NO Number: 1H - 4H Type of Well Pad: MULTIPLE WELL Multiple Well Pad Name: SD WE 23 FED P25 Well Class: HORIZONTAL Number of Legs: 1 Well Work Type: Drill Well Type: OIL WELL **Describe Well Type:** Well sub-Type: INFILL Describe sub-type: Distance to town: 33 Miles Distance to nearest well: 25 FT Distance to lease line: 260 FT Reservoir well spacing assigned acres Measurement: 320 Acres Well plat: SD WE 23 P25 3H C102 07-05-2016.pdf SD WE 23 FED P25 3H Well Pad 07-19-2016.pdf Well work start Date: 01/01/2017 Duration: 120 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR **Describe Survey Type:** Datum: NAD27 Vertical Datum: NGVD29 Survey number: **STATE: NEW MEXICO** Meridian: NEW MEXICO PRINCIPAL County: LEA Latitude: 32.021486 Longitude: -103.645163 SHL Elevation: 3123 MD: 0 **TVD:** 0 Leg #: 1 Lease Type: FEDERAL Lease #: NMNM118723 **NS-Foot: 260** NS Indicator: FSL EW-Foot: 2653 EW Indicator: FWL

> Twsp: 26S Range: 32E Aliquot: SWSE Lot:

Section: 23

Tract:

New surface disturbance?

Well Number: 3H

Well Number: 3H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIP	AL County: LEA
	Latitude: 32.30006	Longitude: -103.59916	
KOP	Elevation: -5249	MD: 8383	TVD: 8372
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 56	NS Indicator: FSL	
	EW-Foot: 2284	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 23
	Aliquot: SWSE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIP	AL County: LEA
	Latitude: 32.04464	Longitude: -103.31752	
PPP	Elevation: -5872	MD: 19192	TVD: 8995
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 330	NS Indicator: FSL	
	EW-Foot: 2290	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 23
	Aliquot: SWSE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIF	AL County: LEA
	Latitude: 32.38212	Longitude: -103.11909	
EXIT	Elevation: -5871	MD: 19042	TVD: 8994
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118722	
	NS-Foot: 330	NS Indicator: FNL	
	EW-Foot: 2290	EW Indicator: FEL	
	Twsp: 26S	Range: 32E	Section: 14
	Aliquot: NWNE	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIP	AL County: LEA
	Latitude: 32.049686	Longitude: -103.64392	
3HL	Elevation: -5872	MD: 19192	TVD: 8995
_eg #: 1	Lease Type: FEDERAL	Lease #: NMNM118722	
	NS-Foot: 180	NS Indicator: FNL	
	EW-Foot: 2290	EW Indicator: FEL	

Well Name: SD WE 23 FED P25	Well Number: 3	H
Twsp: 26S	Range: 32E	Section: 14
Aliquot: NWNE	Lot:	Tract:
	Drilling Plan	
Section 1 - Geologic I	Formations	
D: Surface formation	Name: RUSTLER	
Lithology(ies):		
ANHYDRITE		
Elevation: 3123	True Vertical Depth: 0	Measured Depth: 0
Mineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 1	Name: CASTILE	
Lithology(ies):		
DOLOMITE		
Elevation: 123	True Vertical Depth: 3000	Measured Depth: 3000
Mineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 2	Name: LAMAR LS	
_ithology(ies):		
LIMESTONE		
	True Vertical Depth: 4700	Measured Depth: 4700
levation: -1577	ride vertiedi Deptil. 4700	
Elevation: -1577 Mineral Resource(s):		

Operator Name: CHEVRON USA INC Well Name: SD WE 23 FED P25	Well Number: 3H	•
D: Formation 3	Name: BELL CANYON	
.ithology(ies):		
SANDSTONE		
levation: -1857	True Vertical Depth: 4980	Measured Depth: 4980
/lineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 4	Name: CHERRY CANYON	
.ithology(ies):		
SANDSTONE		
levation: -2752	True Vertical Depth: 5875	Measured Depth: 5875
/lineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 5	Name: BRUSHY CANYON	
.ithology(ies):		
SANDSTONE		
levation: -4302	True Vertical Depth: 7425	Measured Depth: 7425
/ineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 6	Name: BONE SPRING LIME	
ithology(ies):		
LIMESTONE		
levation: -5682	True Vertical Depth: 8805	Measured Depth: 8805
lineral Resource(s):		

Operator Name: CHEVRON USA INC		
Well Name: SD WE 23 FED P25	Well Number:	3H
s this a producing formation? N		
D: Formation 7	Name: AVALON	
.ithology(ies):		
SHALE		
levation: -5752	True Vertical Depth: 8875	Measured Depth: 8875
/lineral Resource(s):		
OIL		
s this a producing formation? Y		
Section 2 - Blowout Pr	revention	
Pressure Rating (PSI): 5M	Rating Depth: 20000	
quipment: Minimum of a 5000 psi rig	stack (see proposed schematic) for d	rill out below surface casing.
equesting Variance? NO		
requesting variancer NO		
/ariance request:		
Variance request: esting Procedure: Stack will be teste		requirements, Test BOP from 250 psi to 5000
Variance request: Stack will be tester si in Ram and 250 to 3500 in Annular.		requirements. Test BOP from 250 psi to 5000
Variance request: Stack will be tester si in Ram and 250 to 3500 in Annular.	See BOP attachment for details	requirements. Test BOP from 250 psi to 5000
Variance request: Testing Procedure: Stack will be teste si in Ram and 250 to 3500 in Annular. Choke Diagram Attachment:	See BOP attachment for details	requirements. Test BOP from 250 psi to 5000

Section 3 - Casing

Well Name: SD WE 23 FED P25

Well Number: 3H

String Type: SURFACE Other String Type: Hole Size: 17.5 Top setting depth MD: 0 Top setting depth TVD: 0 Top setting depth MSL: -5872 Bottom setting depth TVD: 850 Bottom setting depth MD: 850 Bottom setting depth MSL: -6722 Calculated casing length MD: 850 **Other Size** Casing Size: 13.375 Other Grade: Grade: J-55 Weight: 55 Joint Type: STC Other Joint Type: Condition: NEW **Inspection Document:** Standard: API Spec Document: Tapered String ?: N **Tapered String Spec: Safety Factors**

Collapse Design Safety Factor: 1.92 Joint Tensile Design Safety Factor type: DRY Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 1.4 Joint Tensile Design Safety Factor: 1.75 Body Tensile Design Safety Factor: 2.4

SD WE 23 Fed P25 3H 9ppt plan_06-14-2016.pdf

Well Name: SD WE 23 FED P25

Well Number: 3H

Top setting depth TVD: 0

Bottom setting depth TVD: 4700

String Type: INTERMEDIATE Hole Size: 12.25

Top setting depth MD: 0

Top setting depth MSL: -5872

Bottom setting depth MD: 4700

Bottom setting depth MSL: -10572

Calculated casing length MD: 4700

Casing Size: 9.625

Grade: HCK-55

Weight: 40

Joint Type: LTC

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N Tapered String Spec:

Safety Factors

Collapse Design Safety Factor: 3 Joint Tensile Design Safety Factor type: DRY Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s):

Burst Design Safety Factor: 1.21 Joint Tensile Design Safety Factor: 1.48 Body Tensile Design Safety Factor: 2.15

SD WE 23 Fed P25 3H 9ppt plan 06-14-2016.pdf

Other String Type:

Other Size

Other Grade:

Other Joint Type:

Well Name: SD WE 23 FED P25

String Type: PRODUCTION

Top setting depth MD: 0

Well Number: 3H

Hole Size: 8.75

Other String Type:

Top setting depth TVD: 0

Bottom setting depth TVD: 8995

Bottom setting depth MD: 19192

Top setting depth MSL: -5872

Bottom setting depth MSL: -14867

Calculated casing length MD: 19192

Casing Size: 5.5 Grade: HCP-110

Weight: 20

Joint Type: OTHER

Standard: API Spec Document: Tapered String?: N **Tapered String Spec:**

Inspection Document:

Other Size

Other Grade:

Condition: NEW

Other Joint Type: TXPBTCS

Safety Factors

Collapse Design Safety Factor: 2.51 Joint Tensile Design Safety Factor type: DRY Body Tensile Design Safety Factor type: DRY Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 1.3 Joint Tensile Design Safety Factor: 1.51 Body Tensile Design Safety Factor: 2.48

SD WE 23 Fed P25 3H 9ppt plan_06-14-2016.pdf

SALADO DRAW PROD CSG SPEC_09-23-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Well Number: 3H

Stage Tool Depth:

Lead

Top MD of Segment: 0 Additives: NONE Density: 14.8 Bottom MD Segment: 750 Quantity (sks): 894 Volume (cu.ft.): 1.35 Cement Type: CLASS C Yield (cu.ff./sk): 1.35 Percent Excess: 125

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0 Additives: NONE Density: 11.9

<u>Tail</u> Top MD of Segment: 3700 Additives: NONE Density: 14.8

Casing String Type: PRODUCTION

Stage Tool Depth:

Lead

Top MD of Segment: 3850 Additives: NONE Density: 12.5

Tail

Top MD of Segment: 18192 Additives: NONE Density: 15 Bottom MD Segment: 3700 Quantity (sks): 1045 Volume (cu.ft.): 2.43

Bottom MD Segment: 4700 Quantity (sks): 464 Volume (cu.ft.): 1.33

Bottom MD Segment: 18192 Quantity (sks): 2712 Volume (cu.ft.): 1.62

Bottom MD Segment: 19192 Quantity (sks): 116 Volume (cu.ft.): 2.18 Cement Type: 50:50 POZ CLASS C Yield (cu.ff./sk): 2.43 Percent Excess: 150

Cement Type: CLASS C Yield (cu.ff./sk): 1.33 Percent Excess: 85

Cement Type: 50:50 POZ CLASS H & TXI Yield (cu.ff./sk): 1.62 Percent Excess: 35

Cement Type: ACID SOLUBLE Yield (cu.ff./sk): 2.18 Percent Excess: 0

Well Number: 3H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: IN ACCORDANCE WITH ONSHORE ORDER #2

Describe the mud monitoring system utilized: IN ACCORDANCE WITH ONSHORE ORDER #2...VISUAL MUD MONITORING EQPT, PVT, STROKE COUNTER, FLOW SENSOR

Circulating Medium Table

Top Depth: 0	Bottom Depth: 750
Mud Type: SPUD MUD	
Min Weight (Ibs./gal.): 8.3	Max Weight (Ibs./gal.): 8.7
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 750	Bottom Depth: 4700
Mud Type: WATER-BASED MUD	
Min Weight (Ibs./gal.): 9.5	Max Weight (Ibs./gal.): 10.1
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

ell Name: SD WE 23 FED P25	Well Number: 3H
Top Depth: 4700	Bottom Depth: 19192
Mud Type: OTHER	
Min Weight (Ibs./gal.): 8.3	Max Weight (Ibs./gal.): 9.6
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures: DRILL STEM TESTS ARE NOT PLANNED

List of open and cased hole logs run in the well: MWD Coring operation description for the well:

CONVENTIONAL WHOLE CORE SAMPLES ARE NOT PLANNED DIRECTIONAL SURVEY WILL BE RUN

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4500

Anticipated Surface Pressure: 2521.1

Anticipated Bottom Hole Temperature(F): 145

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES Hydrogen sulfide drilling operations plan:

SD WE 23 Fed P25 H2S Summary_07-05-2016.pdf

Well Name: SD WE 23 FED P25

Well Number: 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD WE 23 Fed P25 3H - Plan 1 04-20-16_06-14-2016.pdf Other proposed operations facets description: Other proposed operations facets attachment:

Other Variance attachment:

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES Existing Road Map: SD WE 23 FED P25_Existing Roads_07-05-2016.pdf Existing Road Purpose: ACCESS,FLUID TRANSPORT

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? YES Existing Road Improvement Description: REPAIR POT HOLES, CLEAR DITCHES, REPAIR CROWN, ETC. Existing Road Improvement Attachment:

Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES
New Road Map:
SD WE 23 FED P25 New Roads_09-06-2016.pdf
New road type: LOCAL
Length: 4739 Feet Width (ft.): 14
Max slope (%): 2 Max grade (%): 3
Army Corp of Engineers (ACOE) permit required? NO
ACOE Permit Number(s):
New road travel width: 14
New road access erosion control: SUP
New road access plan or profile prepared? NO

Well Name: SD WE 23 FED P25

Well Number: 3H

New road access plan attachment: Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: NONE

Access topsoil source: OFFSITE

Access surfacing type description: Access onsite topsoil source depth:

Offsite topsoil source description: SUP

Onsite topsoil removal process:

Access other construction information: SUP

Access miscellaneous information: SUP

Number of access turnouts:

Access turnout map:

Drainage Control

New road drainage crossing: OTHER Drainage Control comments: SUP Road Drainage Control Structures (DCS) description: None Required Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES Attach Well map: SD WE 23 FED PAD 25 - 1 MILE RADIUS Maps_06-08-2016_07-05-2016.pdf Existing Wells description:

Section 4 - Location of Existing and/or Proposed Production Facilities

Submit or defer a Proposed Production Facilities plan? SUBMIT

Estimated Production Facilities description:

Production Facilities description: Production will be transported via buried flowline to existing facilities in the SE4 of Sec. 14, T26S-R32E **Production Facilities map:**

Well Name: SD WE 23 FED P25

Well Number: 3H

Water source type: OTHER

Source volume (acre-feet): 85.06944

Source longitude:

SD WE 23 FED P25 1H-4H _RevAerialDetail_07-05-2016.pdf

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING Describe type:

Source latitude:

Source datum:

Water source permit type: PRIVATE CONTRACT

Source land ownership: PRIVATE

Water source transport method: PIPELINE

Source transportation land ownership: PRIVATE

Water source volume (barrels): 660000

Source volume (gal): 27720000

Water source and transportation map:

SD WE 23 FED P25 1H-4H _RevAerialDetail_07-05-2016.pdf

Water source comments: Fresh water will be obtained from a private water source, stored in existing ponds in NE4 NW4 Section 19 of T26S-R33E & NW4 NW4 Section 29 of T26S R33E. New water well? NO

New Water Well Info

Well latitude:	Well Longitude: Well datum:	
Well target aquifer:		
Est. depth to top of aquifer(ft):	Est thickness of aquifer:	
Aquifer comments:		
Aquifer documentation:		
Well depth (ft):	Well casing type:	
Well casing outside diameter (in.):	Well casing inside diameter (in.):	
New water well casing?	Used casing source:	
Drilling method:	Drill material:	
Grout material:	Grout depth:	
Casing length (ft.):	Casing top depth (ft.):	
Well Production type:	Completion Method:	
Water well additional information:		

Well Name: SD WE 23 FED P25

Well Number: 3H

State appropriation permit:

Additional information attachment:

Section 6 - Construction Materials

Construction Materials description: Caliche will be sourced from a pit in Section 22, T26S-R33E or an alternative pit in Section 21, T26S-R33E, Lea County, NM. Construction Materials source location attachment:

SD WE 23 P25 3H APD SUP 07-05-2016.pdf

Section 7 - Methods for Handling Waste

Waste type: GARBAGE

Waste content description: GARBAGE AND TRASH PRODUCED DURING DRILLING

Amount of waste: 200 barrels

Waste disposal frequency : Daily

Safe containment description: WILL BE COLLECTED IN A TRASH CONTAINER & DISPOSED OF AT A STATE APPROVED DISP FACILITY Safe containmant attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: STATE FACILITY Disposal type description:

Disposal location description: STATE APPROVED DISPOSAL FACILITY

Reserve Pit

Temporary disposal of produced water into reserve pit?

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

Reserve pit depth (ft.)

Reserve Pit being used? NO

Reserve pit volume (cu. yd.)

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

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO Are you storing cuttings on location? NO Description of cuttings location

Well Number: 3H

Cuttings area length (ft.)

Cuttings area depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

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

WCuttings area liner

Cuttings area liner specifications and installation description

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

SD WE 23 FED P25 1H-4H _Exhibit 4_06-14-2016.pdf

Comments: A COMPRESSOR STATION WILL BE CONSTRUCTED ADJACENT TO THE NEW TANK BTRY TO PROVIDE COMPRESSION FOR GAS LIFT

Section 9 - Well Site Layout

Well Site Layout Diagram:

SD WE 23 FED P25 1H-4H Rig Layout_07-05-2016.pdf SD WE 23 FED P25 3H_Well Pad_07-19-2016.pdf Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

SD WE 23 FED P25 1H-4H Cut and Fill_07-05-2016.pdf SD WE 23 P25 3H APD SUP_09-23-2016.pdf SD WE 23 FED P25 1H-4H Reclaimation Plat_09-23-2016.pdf Drainage/Erosion control construction: See SUP Drainage/Erosion control reclamation: See SUP Wellpad long term disturbance (acres): 2.5 Access road long term disturbance (acres): 1.5 Pipeline long term disturbance (acres): 3.9352617 Other long term disturbance (acres): 0 Total long term disturbance: 7.9352617 Reconstruction method: SUP Topsoil redistribution: SUP Soil treatment: sup

Wellpad short term disturbance (acres): 4 Access road short term disturbance (acres): 1.5 Pipeline short term disturbance (acres): 7.8705235 Other short term disturbance (acres): 0 Total short term disturbance: 13.370523

Well Number: 3H

Email: LFUH@CHEVRON.COM

Last Name: DICKERSON

First Name: KEVIN

Phone: (432)687-7104

Seedbed prep:

Seed BMP:

Seed method:

Existing invasive species? NO

Existing invasive species treatment description:

Existing invasive species treatment attachment:

Weed treatment plan description: See SUP

Weed treatment plan attachment:

Monitoring plan description: See SUP

Monitoring plan attachment:

Success standards: AS PER BLM REQUIREMENTS

Pit closure description: None Required

Pit closure attachment:

Section 11 - Surface Ownership

Disturbance type: WELL PAD Describe: Surface Owner: BUREAU OF LAND MANAGEMENT Other surface owner description: BIA Local Office: BOR Local Office: COE Local Office: DOD Local Office: NPS Local Office: State Local Office: USFWS Local Office: Other Local Office: USFS Region:

USFS Forest/Grassland:

USFS Ranger District:

Well Number: 3H

Section 12 - Other Information

 Right of Way needed? YES
 Use APD as ROW? YES

 ROW Type(s): 287001 ROW – Water Facility,288100 ROW – O&G Pipeline

ROW Applications

SUPO Additional Information: Use a previously conducted onsite? YES Previous Onsite information: On-site performed by BLM NRS: Paul Murphy 3/21/2016

Other SUPO Attachment

PWD

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Well Number: 3H

Produced Water Disposal (PWD) Location:

PWD surface owner:

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

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

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Unlined pit PWD on or off channel: Unlined pit PWD discharge volume (bbl/day): Unlined pit specifications: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit:

PWD disturbance (acres):

Well Name: SD WE 23 FED P25

Well Number: 3H

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well type: Assigned injection well API number? Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment:

Underground Injection Control (UIC) Permit?

PWD disturbance (acres):

Injection well name: Injection well API number:

Well Number: 3H

UIC Permit attachment:

Section 5 - Surface Discharge

Would you like to utilize Surface Discharge PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Surface discharge PWD discharge volume (bbl/day): Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment: Surface Discharge site facilities information: Surface discharge site facilities map:

Section 6 - Other

Would you like to utilize Other PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

Bond Info

Bond Information

Federal/Indian APD: FED BLM Bond number: CA0329 BIA Bond number: Do you have a reclamation bond? NO Is the reclamation bond a rider under the BLM bond? Is the reclamation bond BLM or Forest Service? BLM reclamation bond number: Forest Service reclamation bond number: Forest Service reclamation bond attachment: Reclamation bond number: PWD disturbance (acres):

PWD disturbance (acres):

Well Name: SD WE 23 FED P25

Well Number: 3H

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

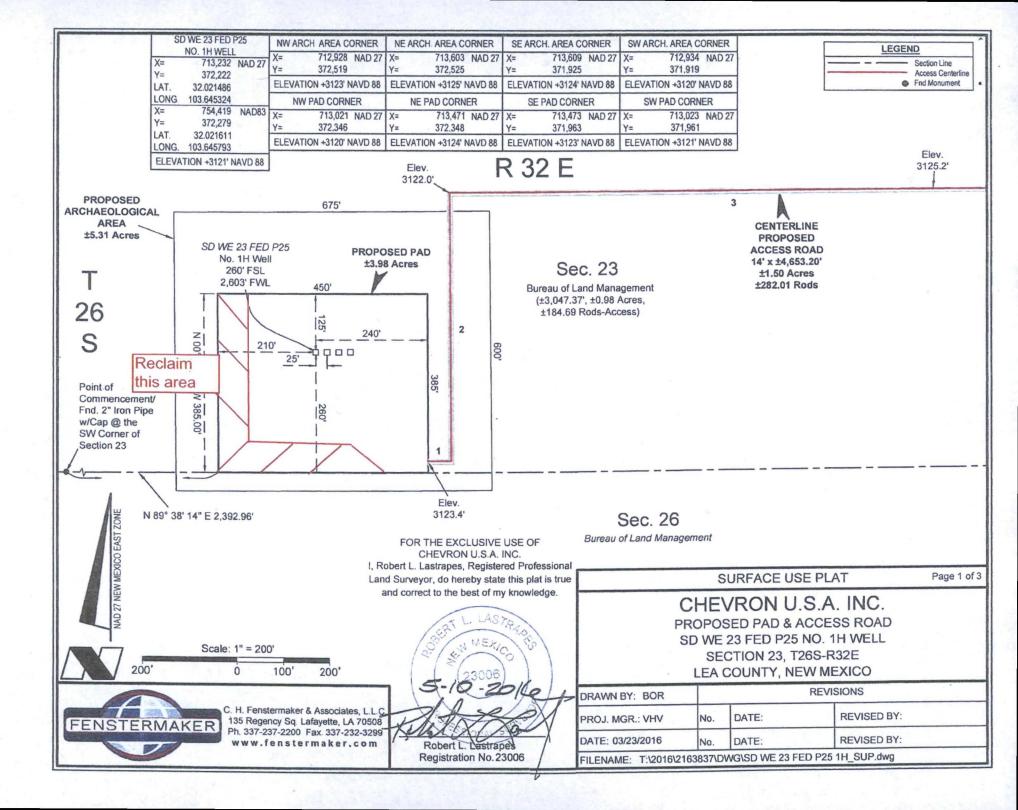
Operator Certification

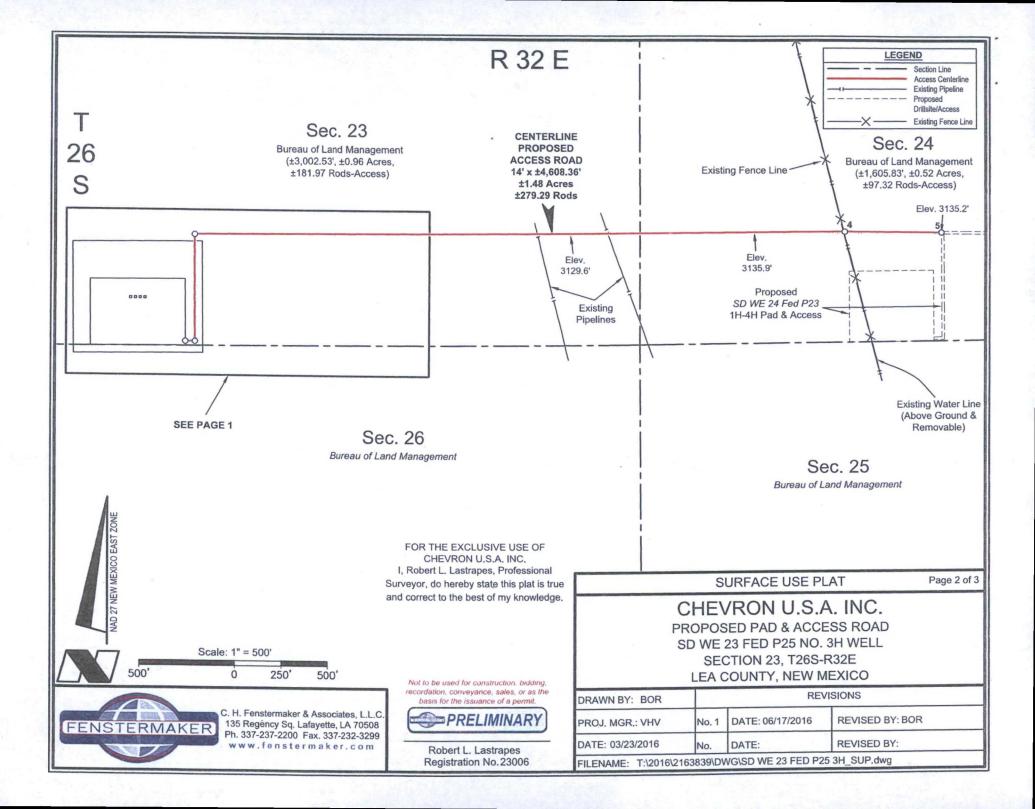
Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

NAME: Denise Pinkerton		Signed on: 06/14/2016	
Title: Regulatory Specialist			
Street Address: 6301 Deauville Blv	vd.		
City: Midland	State: TX	Zip: 79706	
Phone: (432)687-7375			
Email address: leakejd@chevron.c	com		
Field Representative			
Representative Name:			
Street Address:			
City:	State:	Zip:	
Phone:			
Email address:			
	Payment Info		Sec. 2
Payment			

APD Fee Payment Method:	BLM DIRECT
CBS Receipt number:	3585476





NOTE:

Please be advised, that while reasonable efforts are made to locate and verify pipelines and anomalies using our standard pipeline locating equipment, it is impossible to be 100 % effective. As such, we advise using caution when performing work as there is a possibility that pipelines and other hazards, such as fiber optic cables, PVC pipelines, etc. may exist undetected on site.

NOTE:

Many states maintain information centers that establish links between those who dig (excavators) and those who own and operate underground facilities (operators). It is advisable and in most states, law, for the contractor to contact the center for assistance in locating and marking underground utilities. For guidance: New Mexico One Call System www.nmonecall.org.

DISCLAIMER: At this time, C. H. Fenstermaker & Associates, L.L.C. has not performed nor was asked to perform any type of engineering, hydrological modeling, flood plain, or "No Rise" certification analyses, including but not limited to determining whether the project will impact flood hazards in connection with federal/FEMA, state, and/or local laws, ordinances and regulations. Accordingly, Fenstermaker makes no warranty or representation of any kind as to the foregoing issues, and persons or entities using this information shall do so at their own risk. FOR THE EXCLUSIVE USE OF CHEVRON U.S.A. INC. I, Robert L. Lastrapes, Professional Surveyor, do hereby state this plat is true and correct to the best of my knowledge.

> Not to be used for construction, bidding, recordation, conveyance, sales, or as the basis for the issuance of a permit.



Robert L. Lastrapes Registration No.23006

CENTERLINE PROPOSED ACCESS ROAD			
COURSE	DISTANCE		
1-2	N 89° 38' 23" E	49.93'	
2-3	N 00° 21' 07" W	575.73'	
3-4	N 89° 34' 55" E	3465.96'	
4-5	S 89° 28' 31" E	516.74'	

	S	URFACE USE PI	LAT	Page 3 of 3
CHEVRON U.S.A. INC. PROPOSED PAD & ACCESS ROAD SD WE 23 FED P25 NO. 3H WELL SECTION 23, T26S-R32E LEA COUNTY, NEW MEXICO				
DRAWN BY: BOR REVISIONS				
PROJ. MGR.: VHV No. 1 DATE: 06/17/2016 REVISED BY: BOR				
DATE: 03/23/2016	No.	DATE:	REVISED BY:	
FILENAME: T:\2016\2163839\DWG\SD WE 23 FED P25 3H_SUP.dwg				



BLOWOUT PREVENTOR SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System Pressure Rating : 5,000 psi

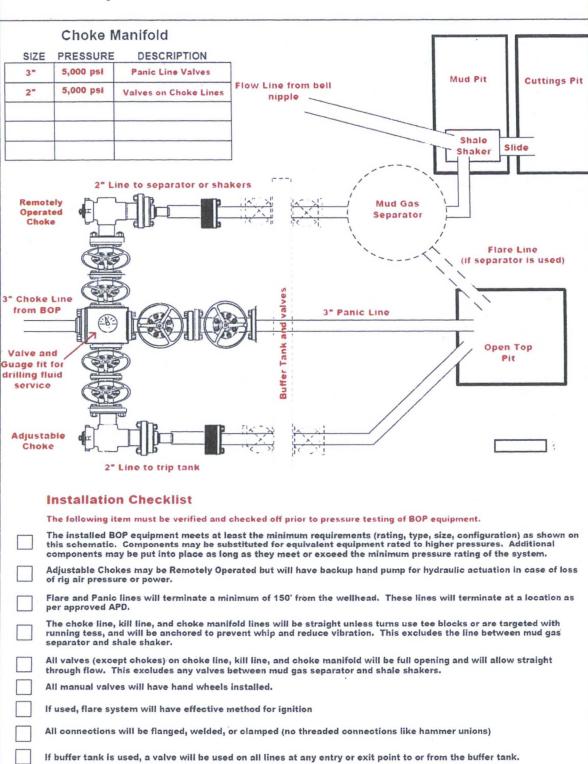
	SIZE	PRESSUR	E DESCRIPTION	
A	JILL	N/A	Bell Nipple]
-	3 5/8"	5,000 psi	Annular	
	3 5/8"	5,000 psi		Flowline to Shaker
-			Pipe Ram	
-	3 5/8"	5,000 psi	Blind Ram	Fill Up Line
	3 5/8"	5,000 psi	Mud Cross	
F				م_
DS	SA	As require	ed for each hole size	- C B
C-9	Sec			
B-9	Sec	13-5/	8" 5K'x 11" 5K	
A-9	Sec	13-3/8"	SOW x 13-5/8" 5K	
		Kill	Line	
SIZ		RESSURE	DESCRIPTION	CtolO c
2"		5,000 psi	Gate Valve	Correction of the second se
2"		5,000 psi		
2"		5,000 psi	Gate Valve	0,000
-		5,000 psi	CHECK VAIVE	
				Kill Line 2" minimum Choke Line to Choke Manifold- 3
				Kill Line- 2" minimum
		Chok	e Line	
SIZ	ZE PR	RESSURE	DESCRIPTION	All
3"	5	5,000 psi	Gate Valve	HCR Valve
3"	5	5,000 psi	HCR Valve	
				· · · · · · · · · · · · · · · · · · ·
	Ins	stallatio	n Checklist	
	-	6.11		
	Inc	e following	item must be verified an	d checked off prior to pressure testing of BOP equipment.
				east the minimum requirements (rating, type, size, configuration) as shown on obstituted for equivalent equipment rated to higher pressures. Additional
				as they meet or exceed the minimum pressure rating of the system.
	All v	alves on th	e kill line and choke line	will be full opening and will allow straight though flow.
			hored to prevent whip ar	ght unless turns use tee blocks or are targeted with running tess, Id reduce vibration.
			manual valves on the ch	ting devices will be installed on all ram preventers. Hand wheels will also be oke line and kill line.
				ne as close as possible to the annular preventer to act as a locking device.
			remain open unless accu	
\square		er kelly coc nections in		be available on rig floor along with safety valve and subs to fit all drill string
	Conn	eestens in		
				·
After	Install	lation Chec	klist is complete, fill out	the information below and email to Superintendent and Drilling Engineer
		W	eliname:	
		Represe	antative	
			Date:	

CHOKE MANIFOLD SCHEMATIC

Minimum Requirements

OPERATION : Intermediate and Production Hole Sections

Minimum System : 5,000 psi



After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer

Wellname:

Representative:

Date:

BOPE Testing

Minimum Requirements

Closing Unit and Accumulator Checklist

The following item must be performed, verified, and checked off at least once per well prior to low/high pressure testing of BOP equipment. This must be repeated after 6 months on the same well.

Precharge pressure for each accumulator bottle must fall within the range below. Bottles may be further charged with nitrogen gas only. Tested precharge pressures must be recorded for each individual bottle and kept on location through the end of the well. Test will be conducted prior to connecting unit to BOP stack.

Check one that applies	Accumulator working pressure rating	Minimum acceptable operating pressure	Desired precharge pressure	Maximum acceptable precharge pressure	
	1500 psi	1500 psi	750 psi	800 psi	700 psi
	2000 psi	2000 psi	1000 psi	1100 psi	900 psi
	3000 psi	3000 psi	1000 psi	1100 psi	900 psi

Accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if used), close all rams, close the annular preventer, and retain a minimum of 200 psi above the maximum acceptable precharge pressure (see table above) on the closing manifold without the use of the closing pumps. This test will be performed with test pressure recorded and kept on location through the end of the well

Accumulator fluid reservoir will be double the usable fluid volume of the accumulator system capacity. Fluid level will be maintained at manufacturer's recommendations. Usable fluid volume will be recorded. Reservoir capacity will be recorded. Reservoir fluid level will be recorded along with manufacturer's recommendation. All will be kept on location through the end of the well.

Closing unit system will have two independent power sources (not counting accumulator bottles) to close the preventers.

Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure decreases to the pre-set level. It is recommended to check that air line to accumulator pump is "ON" during each tour change.

With accumulator bottles isolated, closing unit will be capable of opening the hydraulically-operated choke line valve (if used) plus close the annular preventer on the smallest size drill pipe within 2 minutes and obtain a minimum of 200 psi above maximum acceptable precharge pressure (see table above) on the closing manifold. Test pressure and closing time will be recorded and kept on location through the end of the well.

Master controls for the BOPE system will be located at the accumulator and will be capable of opening and closing all preventer and the choke line valve (if used)

Remote controls for the BOPE system will be readily accessible (clear path) to the driller and located on the rig floor (not in the dog house). Remote controls will be capable of closing all preventers.

Record accumulator tests in drilling reports and IADC sheet

BOPE Test Checklist

The following item must be ckecked off prior to beginning test

BLM will be given at least 4 hour notice prior to beginning BOPE testing

Valve on casing head below test plug will be open

Test will be performed using clear water.

The following item must be performed during the BOPE testing and then checked off

BOPE will be pressure tested when initially installed, whenever any seal subject to test pressure is broken, following related repairs, and at a minimum of 30 days intervals. Test pressure and times will be recorded by a 3rd party on a test chart and kept on location through the end of the well.

Test plug will be used

Ram type preventer and all related well control equipment will be tested to 250 psi (low) and 5,000 psi (high).

Annular type preventer will be tested to 250 psi (low) and 3,500 psi (high).

Valves will be tested from the working pressure side with all down stream valves open. The check valve will be held open to test the kill line valve(s)

Each pressure test will be held for 10 minutes with no allowable leak off.

Master controls and remote controls to the closing unit (accumulator) must be function tested as part of the BOP testing

Record BOP tests and pressures in drilling reports and IADC sheet

After Installation Checklist is complete, fill out the information below and email to Superintendent and Drilling Engineer along with any/all BOP and accumulator test charts and reports from 3rd parties.

Wellname:

Representative:

Date:

ONSHORE ORDER NO. 1 Chevron SD WE 23 Fed P25 3H Lea County, NM

1. FORMATION TOPS

The estimated tops of important geologic markers are as follows:

FORMATION	SUB-SEA TVD	KBTVD	MD
Rustler	2473	650	
Castile	123	3000	
Lamar	-1577	4700	
Bell Canyon	-1857	4980	
Cherry Canyon	-2752	5875	
Brushy Canyon	-4302	7425	-
Bone Spring Limestone	-5682	8805	
Upr. Avalon	-5752	8875	
Las in consideration in the			
Lateral TD (Upper Avalon)	-5872	8995	19192

2. ESTIMATED DEPTH OF WATER, OIL, GAS & OTHER MINERAL BEARING FORMATIONS

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	Depth
Deepest E	xpected Base of Fresh Water	700
Nater Rustler		650
Water	Bell Canyon	4980
Water	Cherry Canyon	5875
Oil/Gas	Brushy Canyon	7425
Oil/Gas	Bone Spring Limestone	8805
Oil/Gas	Upr. Avalon	8875

All shows of fresh water and minerals will be reported and protected.

3. BOP EQUIPMENT

Will have a minimum of a 5000 psi rig stack (see proposed schematic) for drill out below surface casing. Stack will be tested as specified in the attached testing requirements. Batch drilling of the surface, intermediate, and production will take place. A full BOP test will be performed unless approval from BLM is received otherwise.

Chevron requests a variance to use a FMC UH2 Multibowl wellhead, which will be run through the rig foor on surface casing. BOPE will be nippled up and tested after cementing surface casing. Subsequent tests will be performed as needed, not to exceed 30 days. The field report from FMC and BOP test information will be provided in a subsequent report at the end of the well. Please see the attached wellhead schematic. An installation manual has been placed on file with the BLM office and remains unchanged from previous submittal.

ONSHORE ORDER NO. 1 Chevron SD WE 23 Fed P25 3H Lea County, NM

4. CASING PROGRAM

a. The proposed casing program will be as follows:

Purpose	From	То	Hole Size	Csg Size	Weight	Grade	Thread	condition
Surface	0'	850'	17-1/2"	13-3/8"	55 #	J55	STC	New
Intermediate	0'	4,700'	12-1/4"	9-5/8"	40 #	HCK-55	LTC	New
Production	0'	19,192'	8-3/4"	5-1/2"	20.0 #	HCP-110	TXP BTC S	New

b. Casing design subject to revision based on geologic conditions encountered.

- C. ***A "Worst Case" casing design for wells in a particular area is used below to calculate the Casing Safety Factors. If for any reason the casing design for a particular well requires setting casing deeper than the following "worst case" design, then the Casing Safety Factors will be recalcuated & sent to the BLM prior to drilling.
- d. Chevron will fill casing at a minimum of every 20 jts (840') while running for intermediate and production casing in order to maintain collapse SF.

SF Calculations based on the following "Worst Case" casing design:

Surface Casing:	850'			
Intermediate Casing:	4800'			
Production Casing:	22,000' ME	0/9,200' TVD (12,800' VS @	90 deg inc)	
Casing String	Min SF Burst	Min SF Collapse	Min SF Tension	Min SF Tri-Axial
Surface	1.40	1.92	2.40	1.75
Intermediate	1.21	3.02	2.15	1.48
Production	1.30	2.51	2.48	1.51

Min SF is the smallest of a group of safety factors that include the following considerations:

	Surf	Int	Prod
Burst Design			
Pressure Test- Surface, Int, Prod Csg	X	X	X
P external: Water			
P internal: Test psi + next section heaviest mud in csg			
Displace to Gas- Surf Csg	X		
P external: Water			
P internal: Dry Gas from Next Csg Point		`	
Frac at Shoe, Gas to Surf- Int Csg		X	
P external: Water			
P internal: Dry Gas, 13 ppg Frac Gradient			
Stimulation (Frac) Pressures- Prod Csg			X
P external: Water			
P internal: Max inj pressure w/ heaviest injected fluid			
Tubing leak- Prod Csg (packer at KOP)			X
P external: Water			
P internal: Leak just below surf, 8.7 ppg packer fluid			
Collapse Design			
Full Evacuation	X	X	Х
P external: Water gradient in cement, mud above TOC			
P internal: none			
Cementing- Surf, Int, Prod Csg	X	X	X
P external: Wet cement			
P internal: water			
Tension Design			
100k lb overpull	X	X	X

ONSHORE ORDER NO. 1 Chevron SD WE 23 Fed P25 3H Lea County, NM

5. CEMENTING PROGRAM

Slurry	Туре	Тор	Bottom	Weight	Yield	%Excess	Sacks	Water
Surface				(ppg)	(sx/cu ft)	Open Hole		gal/sk
Tail	Class C	0'	750'	14.8	1.35	125	894	6.57
ntermediate								
Lead	50:50 Poz Class C	0'	3,700'	11.9	2.43	150	1045	14.21
Tail	Class C	3,700'	4,700'	14.8	1.33	85	464	6.37
Production								
1st Lead	50:50 Poz Class H	3,850'	8,383'	11.5	2.51	50	644	15.51
2nd Lead	TXI	8,383'	18,192'	12.5	1.62	35	2068	9.64
Tail	Acid Soluble	18,192'	19,192'	15	2.18	0	116	11.42

1. Final cement volumes will be determined by caliper.

2. Surface casing shall have at least one centralizer installed on each of the bottom three joints starting with the shoe joint.

3. Production casing will have one horizontal type centralizer on every joint for the first 1000' from TD, then every other joint to EOB, and then every third joint to KOP. Bowspring type centralizers will be run from KOP to intermediate casing.

4500

psi

6. MUD PROGRAM

From	То	Туре	Weight	F. Vis	Filtrate
0'	750'	Spud Mud	8.3 - 8.7	32 - 34	NC - NC
750'	4,700'	Brine	9.5 - 10.1	28 - 30	NC - NC
4,700'	8,383'	Invermul	8.3 - 9.6	70 - 75	25 - 30
8,383'	9,298'	Invermul	8.3 - 9.6	70 - 75	25 - 30
9,298'	19,192'	Invermul	8.3 - 9.6	70 - 75	25 - 30

A closed system will by utilized consisting of above ground steel tanks. All wastes accumulated during drilling operations will be contained in a portable trash cage and removed from location and deposited in an approved sanitary landfill. Sanitary wastes will be contained in a chemical porta-toilet and then hauled to an approved sanitary landfill.

All fluids and cuttings will be disposed of in accordance with New Mexico Oil Conservation Division rules and regulations.

A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume. When abnormal pressures are anticipated -- a pit volume totalizer (PVT), stroke counter, and flow sensor will be used to detect volume changes indicating loss or gain of circulating fluid volume.

A weighting agent and lost circulating material (LCM) will be onsite to mitigate pressure or lost circulation as hole conditions dictate.

7. TESTING, LOGGING, AND CORING

The anticipated type and amount of testing, logging, and coring are as follows:

- a. Drill stem tests are not planned.
- b. The logging program will be as follows:

TYPE	Logs	Interval	Timing	Vendor
Mudlogs	2 man mudlog	Int Csg to TD	Drillout of Int Csg	TBD
LWD	MWD Gamma	Int. and Prod. Hole	While Drilling	TBD

c. Conventional whole core samples are not planned.

d. A Directional Survey will be run.

8. ABNORMAL PRESSURES AND HYDROGEN SULFIDE

a. No abnormal pressures or temperatures are expected. Estimated BHP is:

b. Hydrogen sulfide gas is not anticipated. An H2S Contingency plan is attached with this APD in the event that H2S is encountered