

# Carlsbad Field Office OCD Hobbs

Form 3160-3  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

## APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS OCD  
MAR 09 2017  
RECEIVED

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMLC065876A
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator CHEVRON USA INC (4323)		7. If Unit or CA Agreement, Name and No.
3a. Address 6301 Deauville Blvd. Midland TX 79706		8. Lease Name and Well No. (317518) SD WE 24 FED P24 5H
3b. Phone No. (include area code) (432)687-7866		9. API Well No. 30-025-43674 (97955)
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SESE / 200 FSL / 1235 FEL / LAT 32.021488 / LONG -103.62381 At proposed prod. zone NWNE / 180 FNL / 2132 FEL / LAT 32.049866 / LONG -103.626692		10. Field and Pool, or Exploratory WC-025 6-06 52633 MP-B5
11. Sec., T. R. M. or Blk. and Survey or Area SEC 24 / T26S / R32E / NMP		12. County or Parish LEA
14. Distance in miles and direction from nearest town or post office* 33 miles		13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 200 feet	16. No. of acres in lease 80	17. Spacing Unit dedicated to this well 320
18. Distance from proposed location* to nearest well, drilling, completed, 25 feet applied for, on this lease, ft.	19. Proposed Depth 9110 feet / 19370 feet	20. BLM/BIA Bond No. on file FED: CA0329
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3138 feet	22. Approximate date work will start* 01/01/2017	23. Estimated duration 120 days

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- |   |   |
|---|---|
| <ol style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).</li> </ol> | <ol style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification</li> <li>6. Such other site specific information and/or plans as may be required by the BLM.</li> </ol> |
|---|---|

25. Signature (Electronic Submission)	Name (Printed/Typed) Denise Pinkerton / Ph: (432)687-7375	Date 10/17/2016
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 03/01/2017
Title Supervisor Multiple Resources Office HOBBS		

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.

(Continued on page 2)

\*(Instructions on page 2)

APPROVED WITH CONDITIONS

Kz  
03/10/17

**APD ID:** 10400006773**Operator Name:** CHEVRON USA INC**Well Name:** SD WE 24 FED P24**Well Type:** OIL WELL**Submission Date:** 10/17/2016**Federal/Indian APD:** FED**Well Number:** 5H**Well Work Type:** Drill**Highlight**  
All Changes**Application****Section 1 - General****APD ID:** 10400006773**BLM Office:** HOBBS**Federal/Indian APD:** FED**Lease number:** NMLC065876A**Surface access agreement in place?****Agreement in place?** NO**Agreement number:****Agreement name:****Keep application confidential?** NO**Permitting Agent?** NO**Operator letter of designation:****Keep application confidential?** NO**Tie to previous NOS?****User:** Denise Pinkerton**Is the first lease penetrated for production Federal or Indian?** FED**Lease Acres:** 80**Allotted?****Reservation:****Federal or Indian agreement:****Submission Date:** 10/17/2016**Title:** Regulatory Specialist**APD Operator:** CHEVRON USA INC**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:****Zip:** 79706**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:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

Well Name: SD WE 24 FED P24

Well Number: 5H

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

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name: SD

Number: 5H-7H

Well Class: HORIZONTAL

WE 24 FED P24

Number of Legs:

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: 200 FT

Reservoir well spacing assigned acres Measurement: 320 Acres

Well plat: SD WE 24 FED P24 5H\_WellPlat\_10-14-2016.pdf

SD WE 24 P24 5H\_C102 signed\_10-14-2016.pdf

Well work start Date: 01/01/2017

Duration: 120 DAYS

### Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NGVD29

Survey number:

STATE: NEW MEXICO

Meridian: NEW MEXICO PRINCIPAL County: LEA

Latitude: 32.021488

Longitude: -103.62381

SHL

Elevation: 3138

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMLC065876A

NS-Foot: 200

NS Indicator: FSL

EW-Foot: 1235

EW Indicator: FEL

Twsp: 26S

Range: 32E

Section: 24

Aliquot: SESE

Lot:

Tract:

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.049741	<b>Longitude:</b> -103.626692	
KOP	<b>Elevation:</b> -5458	<b>MD:</b> 8670	<b>TVD:</b> 8596
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118722	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2132	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 13
	<b>Aliquot:</b> NWNE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.049866	<b>Longitude:</b> -103.626692	
PPP	<b>Elevation:</b> -5865	<b>MD:</b> 9158	<b>TVD:</b> 9003
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118722	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2132	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 13
	<b>Aliquot:</b> NWNE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.049866	<b>Longitude:</b> -103.626692	
EXIT	<b>Elevation:</b> -5969	<b>MD:</b> 19219	<b>TVD:</b> 9107
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118722	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2132	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 13
	<b>Aliquot:</b> NWNE	<b>Lot:</b>	<b>Tract:</b>
	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.049866	<b>Longitude:</b> -103.626692	
BHL	<b>Elevation:</b> -5972	<b>MD:</b> 19370	<b>TVD:</b> 9110
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118722	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 2132	<b>EW Indicator:</b> FEL	

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

Twsp: 26S

Range: 32E

Section: 13

Aliquot: NWNE

Lot:

Tract:

## Drilling Plan

### Section 1 - Geologic Formations

ID: Surface formation

Name: RUSTLER

Lithology(ies):

ANHYDRITE

Elevation: 3138

True Vertical Depth: 0

Measured Depth: 0

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 1

Name: CASTILE

Lithology(ies):

DOLOMITE

Elevation: 138

True Vertical Depth: 3000

Measured Depth: 3000

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 2

Name: LAMAR LS

Lithology(ies):

LIMESTONE

Elevation: -1562

True Vertical Depth: 4700

Measured Depth: 4700

Mineral Resource(s):

NONE

Is this a producing formation? N

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

ID: Formation 3

Name: BELL CANYON

Lithology(ies):

SANDSTONE

Elevation: -1842

True Vertical Depth: 4980

Measured Depth: 4980

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 4

Name: CHERRY CANYON

Lithology(ies):

SANDSTONE

Elevation: -2737

True Vertical Depth: 5875

Measured Depth: 5875

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 5

Name: BRUSHY CANYON

Lithology(ies):

SANDSTONE

Elevation: -4287

True Vertical Depth: 7425

Measured Depth: 7425

Mineral Resource(s):

NONE

Is this a producing formation? N

ID: Formation 6

Name: BONE SPRING LIME

Lithology(ies):

LIMESTONE

Elevation: -5667

True Vertical Depth: 8805

Measured Depth: 8805

Mineral Resource(s):

NONE

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

Is this a producing formation? N

ID: Formation 7

Name: AVALON

Lithology(ies):

SHALE

Elevation: -5972

True Vertical Depth: 9110

Measured Depth: 19370

Mineral Resource(s):

OIL

Is this a producing formation? Y

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## Section 2 - Blowout Prevention

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Pressure Rating (PSI): 5M

Rating Depth: 22000

Equipment: Minimum of 5000 psi rig stack (see proposed schematic for drill out below surface casing)

Requesting Variance? YES

Variance request: Chevron requests a variance to use a FMC UH2 Multibowl wellhead. Please see the attached wellhead schematic.

Testing Procedure: Stack will be tested as specified in the attached testing requirements, upon NU and not to exceed 30 days.

Choke Diagram Attachment:

SD WE 24 P24 5H\_BOPE CHOKE\_10-14-2016.pdf

BOP Diagram Attachment:

SD WE 24 P24 5H\_BOPE CHOKE\_10-14-2016.pdf

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## Section 3 - Casing

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**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 4600

**Top setting depth TVD:** 0

**Top setting depth MSL:** -5972

**Bottom setting depth MD:** 19370

**Bottom setting depth TVD:** -9048

**Bottom setting depth MSL:** 3076

**Calculated casing length MD:** 14770

**Casing Size:** 5.5

**Other Size**

**Grade:** HCP-110

**Other Grade:**

**Weight:** 20

**Joint Type:** OTHER

**Other Joint Type:** TXP BTC

**Condition:** NEW

**Inspection Document:**

**Standard:** API

**Spec Document:**

**Tapered String?:** N

**Tapered String Spec:**

### Safety Factors

**Collapse Design Safety Factor:** 2.51

**Burst Design Safety Factor:** 1.3

**Joint Tensile Design Safety Factor type:** DRY

**Joint Tensile Design Safety Factor:** 2.48

**Body Tensile Design Safety Factor type:** DRY

**Body Tensile Design Safety Factor:** 1.51

**Casing Design Assumptions and Worksheet(s):**

SD WE 24 P24 5H\_9PPT PLAN\_10-14-2016.pdf

SALADO DRAW PROD CSG SPEC\_10-14-2016.pdf

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**String Type:** SURFACE

**Other String Type:**

**Hole Size:** 17.5

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -5972

**Bottom setting depth MD:** 750

**Bottom setting depth TVD:** -750

**Bottom setting depth MSL:** -5222

**Calculated casing length MD:** 750

**Casing Size:** 13.375

**Other Size:**

**Grade:** J-55

**Other Grade:**

**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

**Burst Design Safety Factor:** 1.4

**Joint Tensile Design Safety Factor type:** DRY

**Joint Tensile Design Safety Factor:** 2.4

**Body Tensile Design Safety Factor type:** DRY

**Body Tensile Design Safety Factor:** 1.75

**Casing Design Assumptions and Worksheet(s):**

SD WE 24 P24 5H\_9PPT PLAN\_10-14-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

String Type: INTERMEDIATE

Other String Type:

Hole Size: 12.25

Top setting depth MD: 750

Top setting depth TVD: 0

Top setting depth MSL: -5972

Bottom setting depth MD: 4600

Bottom setting depth TVD: -4550

Bottom setting depth MSL: -1422

Calculated casing length MD: 3850

Casing Size: 9.625

Other Size

Grade: HCK-55

Other Grade:

Weight: 40

Joint Type: LTC

Other Joint Type:

Condition: NEW

Inspection Document:

Standard: API

Spec Document:

Tapered String?: N

Tapered String Spec:

### Safety Factors

Collapse Design Safety Factor: 3.02

Burst Design Safety Factor: 1.21

Joint Tensile Design Safety Factor type: DRY

Joint Tensile Design Safety Factor: 2.15

Body Tensile Design Safety Factor type: DRY

Body Tensile Design Safety Factor: 1.48

Casing Design Assumptions and Worksheet(s):

SD WE 24 P24 5H\_9PPT PLAN\_10-14-2016.pdf

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### Section 4 - Cement

Casing String Type: SURFACE

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

**Stage Tool Depth:**

Lead

**Top MD of Segment: 0**

**Bottom MD Segment: 750**

**Cement Type: CLASS C**

**Additives: NONE**

**Quantity (sks): 865**

**Yield (cu.ff./sk): 1.35**

**Density: 14.8**

**Volume (cu.ft.): 208**

**Percent Excess: 125**

**Casing String Type: INTERMEDIATE**

**Stage Tool Depth:**

Lead

**Top MD of Segment: 0**

**Bottom MD Segment: 3600**

**Cement Type: 50:50 POZ CLASS C**

**Additives: NONE**

**Quantity (sks): 1030**

**Yield (cu.ff./sk): 2.43**

**Density: 11.9**

**Volume (cu.ft.): 446**

**Percent Excess: 150**

Tail

**Top MD of Segment: 3600**

**Bottom MD Segment: 4600**

**Cement Type: CLASS C**

**Additives: NONE**

**Quantity (sks): 464**

**Yield (cu.ff./sk): 1.33**

**Density: 14.8**

**Volume (cu.ft.): 110**

**Percent Excess: 85**

**Casing String Type: PRODUCTION**

**Stage Tool Depth:**

Lead

**Top MD of Segment: 8670**

**Bottom MD Segment: 18370**

**Cement Type: 50:50 POZ CLASS H**

**Additives: NONE**

**Quantity (sks): 2757**

**TXI**

**Yield (cu.ff./sk): 1.62**

**Density: 12.5**

**Volume (cu.ft.): 591**

**Percent Excess: 35**

Tail

**Top MD of Segment: 18370**

**Bottom MD Segment: 19370**

**Cement Type: ACID SOLUBLE**

**Additives: NONE**

**Quantity (sks): 116**

**Yield (cu.ff./sk): 2.18**

**Density: 15**

**Volume (cu.ft.): 45**

**Percent Excess: 0**

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

### 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 COMPLIANCE WITH ONSHORE ORDER #2

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

### Circulating Medium Table

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

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Top Depth: 750	Bottom Depth: 4600
Mud Type: SALT SATURATED	
Min Weight (lbs./gal.): 9.5	Max Weight (lbs./gal.): 10.2
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP):
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

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**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**Top Depth:** 4600

**Bottom Depth:** 19370

**Mud Type:** OIL-BASED MUD

**Min Weight (lbs./gal.):** 8.3

**Max Weight (lbs./gal.):** 9.6

**Density (lbs/cu.ft.):**

**Gel Strength (lbs/100 sq.ft.):**

**PH:**

**Viscosity (CP):**

**Filtration (cc):**

**Salinity (ppm):**

**Additional Characteristics:**

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## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

DRILL STEM TESTS NOT PLANNED

**List of open and cased hole logs run in the well:**

MWD

**Coring operation description for the well:**

CONVENTIONAL HOLE CORE SAMPLES ARE NOT PLANNED; DIRECTIONAL SURVEY TO BE RUN

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4500

**Anticipated Surface Pressure:** 2495.8

**Anticipated Bottom Hole Temperature(F):** 160

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

SD WE 24 P24 H2S PLAN\_10-14-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

## Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD WE 24 Fed P24 5H\_Directional\_Plot\_10-14-2016.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 24 FED P24 5H-7H\_AerialDetail\_R\_10-14-2016.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 24 FED P24 5H\_WellPlat\_10-14-2016.pdf

New road type: LOCAL

Length: 47 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: SEE SURFACE USE PLAN

New road access plan or profile prepared? NO

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: CALICHE

Access onsite topsoil source depth: 0

Offsite topsoil source description:

Onsite topsoil removal process: NONE NEEDED

Access other construction information:

Access miscellaneous information:

Number of access turnouts:

Access turnout map:

### **Drainage Control**

New road drainage crossing: OTHER

Drainage Control comments: DITCHING ON BOTH SIDES OF ROAD

Road Drainage Control Structures (DCS) description: DITCHING ON BOTH SIDES OF ROAD

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 24 P24\_ONE MILE RAD\_10-14-2016.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: SEE SURFACE USE PLAN

Production Facilities map:

SD WE 24 FED P24 5H-7H\_AerialDetail\_R\_10-14-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

## Section 5 - Location and Types of Water Supply

### Water Source Table

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

**Water source type:** OTHER

**Describe type:** GW WELL OR RECYCLED WATER

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** PRIVATE

**Water source transport method:** PIPELINE

**Source transportation land ownership:** OTHER

**Describe transportation land ownership:**

**Water source volume (barrels):** 659461.25

**Source volume (acre-feet):** 85

**Source volume (gal):** 27697372

#### Water source and transportation map:

SD WE 24 FED P24 5H-7H\_AerialDetail\_R\_10-14-2016.pdf

**Water source comments:** fresh water will be obtained from a private water source, stored in existing ponds in primary ponds in NENE S13&23 T26S-R32E or secondary ponds in NENW S19 T26S-R33E & NWNW S29 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:**

**State appropriation permit:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

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-R32E, LEA COUNTY, NM.

**Construction Materials source location attachment:**

### Section 7 - Methods for Handling Waste

**Waste type:** GARBAGE

**Waste content description:** GARBAGE AND TRASH

**Amount of waste:** 200 pounds

**Waste disposal frequency :** Daily

**Safe containment description:** WILL BE COLLECTED IN TRASH CONTAINER AND DISPOSED OF AT STATE APPROVED FACILITY

**Safe containmant attachment:**

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

**Disposal type description:**

**Disposal location description:** STATE APPROVED FACILITY

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

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

**Reserve pit depth (ft.)** **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**

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**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:**

**Comments:**

## **Section 9 - Well Site Layout**

**Well Site Layout Diagram:**

SD WE 24 Fed P24 5-7H Pace X-30 Rig Layout\_10-14-2016.pdf

SD WE 24 FED P24 5H\_WellPlat\_10-14-2016.pdf

**Comments:**

## **Section 10 - Plans for Surface Reclamation**

**Type of disturbance:** NEW

**Recontouring attachment:**

SD WE 24 P24\_Reclamation\_10-14-2016.pdf

SD WE 24 P24 5H APD SUP\_10-14-2016.pdf

**Drainage/Erosion control construction:** SEE SURFACE USE PLAN

**Drainage/Erosion control reclamation:** SEE SURFACE USE PLAN

**Wellpad long term disturbance (acres):** 2.5

**Wellpad short term disturbance (acres):** 4

**Access road long term disturbance (acres):** 0

**Access road short term disturbance (acres):** 0

**Pipeline long term disturbance (acres):** 0.34389347

**Pipeline short term disturbance (acres):** 0.848944

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0

**Total long term disturbance:** 2.8438935

**Total short term disturbance:** 4.848944

**Reconstruction method:** SEE SURFACE USE PLAN

**Topsoil redistribution:** SEE SURFACE USE PLAN

**Soil treatment:** SEE SURFACE USE PLAN

**Existing Vegetation at the well pad:** MESQUITE, SHRUBS, GRASS

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** MESQUITE, SHRUBS, GRASS

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: MESQUITE, SHRUBS, GRASS

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: MESQUITE, SHRUBS, GRASS

Existing Vegetation Community at other disturbances attachment:

Non native seed used?

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project?

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation?

Seed harvest description:

Seed harvest description attachment:

## Seed Management

### Seed Table

Seed type:

Seed source:

Seed name:

Source name:

Source address:

Source phone:

Seed cultivar:

Seed use location:

PLS pounds per acre:

Proposed seeding season:

### Seed Summary

Total pounds/Acre:

Seed Type	Pounds/Acre
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Seed reclamation attachment:

### Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

Seedbed prep:

Seed BMP:

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** None needed

**Weed treatment plan attachment:**

**Monitoring plan description:** none needed

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** N/A

**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:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**Disturbance type:** NEW ACCESS ROAD

**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:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** EXISTING ACCESS ROAD

**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:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**Disturbance type:** PIPELINE

**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:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

## Section 12 - Other Information

**Right of Way needed?** YES

**Use APD as ROW?** YES

**ROW Type(s):** 288100 ROW – O&G Pipeline,Other

### ROW Applications

**SUPO Additional Information:**

**Use a previously conducted onsite?** YES

**Previous Onsite information:** HARD STAKED 04/16/2016 WITH PAUL MURPHY

### Other SUPO Attachment

PWD

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

## 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

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**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:**

**Describe 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:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

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:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

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:

Operator Name: CHEVRON USA INC

Well Name: SD WE 24 FED P24

Well Number: 5H

### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

Injection well type:

Injection well number:

Injection well name:

Assigned injection well API number?

Injection well API number:

Injection well new surface disturbance (acres):

Minerals protection information:

Mineral protection attachment:

Underground Injection Control (UIC) Permit?

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:

PWD disturbance (acres):

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:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**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:**

**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:** 10/14/2016

**Title:** Regulatory Specialist

**Street Address:** 6301 Deauville Blvd

**City:** Midland

**State:** TX

**Zip:** 79706

**Phone:** (432)687-7375

**Email address:** leakejd@chevron.com

### Field Representative

**Representative Name:**

**Street Address:**

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 24 FED P24

**Well Number:** 5H

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### Payment Info

#### Payment

**APD Fee Payment Method:** BLM DIRECT

**CBS Receipt number:** 3677624