

# Carlsbad Field Office OCD Hobbs

HOBBS OCD

FEB 13 2017

RECEIVED

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No.
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		8. Lease Name and Well No. (317407) SD WE 15 FED P12 2H
2. Name of Operator CHEVRON USA INC (4323)		9. API Well No. 30-025-43594
3a. Address 6301 Deauville Blvd. Midland TX 79706	3b. Phone No. (include area code) (432)687-7866	10. Field and Pool, or Exploratory (97838) JENNINGS / UPPER BONE SPRING SH
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESW / 52 FSL / 1410 FWL / LAT 32.035723 / LONG -103.666843 At proposed prod. zone NWNW / 180 FNL / 990 FWL / LAT 32.049786 / LONG -103.668147		11. Sec., T. R. M. or Blk. and Survey or Area SEC 15 / T26S / R32E / NMP
14. Distance in miles and direction from nearest town or post office* 33 miles		12. County or Parish LEA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 52 feet		13. State NM
16. No. of acres in lease 1280		17. Spacing Unit dedicated to this well 160
18. Distance from proposed location* to nearest well, drilling, completed, 25 feet applied for, on this lease, ft.		20. BLM/BIA Bond No. on file FED: CA0329
19. Proposed Depth 9058 feet / 13932 feet		23. Estimated duration 120 days
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3147 feet		22. Approximate date work will start* 03/01/2017

### 24. Attachments

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

- |                                                                                                                                                |                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1. Well plat certified by a registered surveyor.                                                                                               | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.                                                                                                                            | 5. Operator certification                                                                       |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM.             |

25. Signature (Electronic Submission)	Name (Printed/Typed) Denise Pinkerton / Ph: (432)687-7375	Date 09/28/2016
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/07/2017
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**

Ka  
02/13/17



APD ID: 10400003841

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Type: OIL WELL

Submission Date: 09/28/2016

Federal/Indian APD: FED

Well Number: 2H

Well Work Type: Drill

Highlight  
All Changes

## Application

### Section 1 - General

APD ID: 10400003841

BLM Office: HOBBS

Federal/Indian APD: FED

Lease number: NMNM118723

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: 1280

Allotted?

Reservation:

Federal or Indian agreement:

Submission Date: 09/28/2016

Title: Regulatory Specialist

APD Operator: CHEVRON USA INC

### Operator Info

Operator Organization Name: CHEVRON USA INC

Operator Address: 6301 Deauville Blvd.

Operator PO Box:

Zip: 79706

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

Master Development Plan name:

Master SUPO name:

Master Drilling Plan name:

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

Well Name: SD WE 15 FED P12

Well Number: 2H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: JENNINGS

Pool Name: UPPER BONE  
SPRING 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: SDWE Number: 1H - 4H  
15 P12

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: 52 FT

Reservoir well spacing assigned acres Measurement: 160 Acres

Well plat: SD WE 15 P12 2H\_C102\_10-26-2016.pdf

Well work start Date: 03/01/2017

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: 32.035723

Longitude: -103.666843

SHL

Elevation: 3147

MD: 0

TVD: 0

Leg #: 1

Lease Type: FEDERAL

Lease #: NMNM118723

NS-Foot: 52

NS Indicator: FSL

EW-Foot: 1410

EW Indicator: FWL

Twsp: 26S

Range: 32E

Section: 15

Aliquot: SESW

Lot:

Tract:



Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.049786	Longitude: -103.668147	
KOP	Elevation: -5415	MD: 8592	TVD: 8562
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 180	NS Indicator: FNL	
	EW-Foot: 990	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 15
	Aliquot: NWNW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.049786	Longitude: -103.668147	
PPP	Elevation: -5824	MD: 9100	TVD: 8971
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 180	NS Indicator: FNL	
	EW-Foot: 990	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 15
	Aliquot: NWNW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.049786	Longitude: -103.668147	
EXIT	Elevation: -5911	MD: 13782	TVD: 9058
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 180	NS Indicator: FNL	
	EW-Foot: 990	EW Indicator: FWL	
	Twsp: 26S	Range: 32E	Section: 15
	Aliquot: NWNW	Lot:	Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL	County: LEA
	Latitude: 32.049786	Longitude: -103.668147	
BHL	Elevation: -5911	MD: 13932	TVD: 9058
Leg #: 1	Lease Type: FEDERAL	Lease #: NMNM118723	
	NS-Foot: 180	NS Indicator: FNL	
	EW-Foot: 990	EW Indicator: FWL	

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**Twsp:** 26S

**Range:** 32E

**Section:** 15

**Aliquot:** NWNW

**Lot:**

**Tract:**

## Drilling Plan

### Section 1 - Geologic Formations

**ID:** Surface formation

**Name:** RUSTLER

**Lithology(ies):**

ANHYDRITE

**Elevation:** 3147

**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:** 147

**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:** -1553

**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 15 FED P12

**Well Number:** 2H

**ID:** Formation 3

**Name:** BELL CANYON

**Lithology(ies):**

SANDSTONE

**Elevation:** -1833

**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:** -2728

**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:** -4278

**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:** -5658

**True Vertical Depth:** 8805

**Measured Depth:** 8805

**Mineral Resource(s):**

NONE

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**Is this a producing formation?** N

**ID:** Formation 7

**Name:** AVALON

**Lithology(ies):**

SHALE

**Elevation:** -5911

**True Vertical Depth:** 9058

**Measured Depth:** 13932

**Mineral Resource(s):**

OIL

**Is this a producing formation?** Y

## Section 2 - Blowout Prevention

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**Pressure Rating (PSI):** 5M

**Rating Depth:** 22000

**Equipment:** Minimum of 5000 psi BOP stack and choke (see proposed schematic) will be utilized

**Requesting Variance?** YES

**Variance request:** Chevron requests a variance to use a FMC UH2 Multibowl wellhead. Please see the attached 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 15 P12\_BOP CHOKE\_09-28-2016.pdf

**BOP Diagram Attachment:**

SD WE 15 P12\_BOP CHOKE\_09-28-2016.pdf

SD WE 15 P12\_FMC UH2\_09-28-2016.pdf

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## Section 3 - Casing

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**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -5911

**Bottom setting depth MD:** 13932

**Bottom setting depth TVD:** -9058

**Bottom setting depth MSL:** 3147

**Calculated casing length MD:** 13932

**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 15 Fed P12 2H 9ppt plan\_09-28-2016.pdf

SALADO DRAW PROD CSG SPEC\_09-28-2016.pdf



Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL: -5911

Bottom setting depth MD: 650

Bottom setting depth TVD: -650

Bottom setting depth MSL: -5261

Calculated casing length MD: 650

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 15 Fed P12 2H 9ppt plan\_09-28-2016.pdf

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -5911

**Bottom setting depth MD:** 4530

**Bottom setting depth TVD:** -4503

**Bottom setting depth MSL:** -1408

**Calculated casing length MD:** 4530

**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 15 Fed P12 2H 9ppt plan\_09-28-2016.pdf

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### **Section 4 - Cement**

**Casing String Type:** SURFACE

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 650

Cement Type: Class C

Additives: None

Quantity (sks): 749

Yield (cu.ff./sk): 1.35

Density: 14.8

Volume (cu.ft.): 180

Percent Excess: 125

**Casing String Type: INTERMEDIATE**

**Stage Tool Depth:**

Lead

Top MD of Segment: 0

Bottom MD Segment: 3530

Cement Type: 50:50 Poz

Additives: None

Quantity (sks): 1025

Yield (cu.ff./sk): 2.43

Density: 11.9

Volume (cu.ft.): 444

Percent Excess: 150

Tail

Top MD of Segment: 3530

Bottom MD Segment: 4530

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: 8592

Bottom MD Segment: 12932

Cement Type: TXI

Additives: None

Quantity (sks): 1623

Yield (cu.ff./sk): 1.62

Density: 12.5

Volume (cu.ft.): 266

Percent Excess: 35

Tail

Top MD of Segment: 12932

Bottom MD Segment: 13932

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 15 FED P12

Well Number: 2H

## 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

Top Depth: 0	Bottom Depth: 650
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:	
Top Depth: 4530	Bottom Depth: 13932
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:	



**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**Top Depth:** 540

**Bottom Depth:** 4530

**Mud Type:** WATER-BASED MUD

**Min Weight (lbs./gal.):** 9.5

**Max Weight (lbs./gal.):** 10.1

**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 whole core samples are not planned; Directional survey to be run.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 4500

**Anticipated Surface Pressure:** 2507.23

**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 15 P12\_H2S\_09-28-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

## Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD WE 15 Fed P12 2H\_Prelim 2\_Plot\_09-28-2016.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 15 Fed P12 2H Roads\_07-28-2016.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 15 Fed P12 2H Roads\_07-28-2016.pdf

SD WE 15 Fed P12 2H Well Pad\_07-28-2016.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

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**New road access plan or profile prepared?** NO

**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 15 P12\_Radius Map\_09-28-2016.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:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

SD WE 15 P12\_Aerial\_09-28-2016.pdf

## 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: GM 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 15 P12\_Aerial\_09-28-2016.pdf

Water source comments:

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:



**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**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-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.)**

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

Cuttings area depth (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:

Comments:

## Section 9 - Well Site Layout

Well Site Layout Diagram:

SD WE 15 Fed P12 2H Well Pad\_07-28-2016.pdf

SD WE 15 P12 1H\_Rig Layout\_09-28-2016.pdf

Comments:

## Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

SD WE 15 P12 2H\_SUP\_09-28-2016.pdf

SD WE 15 P12\_Reclamation\_09-28-2016.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): 0.02

Access road short term disturbance (acres): 0.02

Pipeline long term disturbance (acres): 1.587236

Pipeline short term disturbance (acres): 1.587236

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 4.107236

Total short term disturbance: 5.607236

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:

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

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

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? NO

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? NO

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? NO

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:

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**Seed BMP:**

**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:** WELL PAD

**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 15 FED P12

**Well Number:** 2H

**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:**

**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:**

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P12

**Well Number:** 2H

**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:**

## 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 4/16/2016 WITH PAUL MURPHY

### Other SUPO Attachment

PWD

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P12

Well Number: 2H

## 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 15 FED P12

Well Number: 2H

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 15 FED P12

Well Number: 2H

#### 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 15 FED P12

**Well Number:** 2H

**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:** 07/28/2016

**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 15 FED P12

**Well Number:** 2H

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### Payment Info

#### Payment

**APD Fee Payment Method:** BLM DIRECT

**CBS Receipt number:** 3616699