

# Carlsbad Field Office OCD Hobbs

Form 3160-3  
(March 2012)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

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

HOBBS OCD  
RECEIVED  
FEB 28 2017

5. Lease Serial No. NMNM118723		6. If Indian, Allottee or Tribe Name	
7. If Unit or CA Agreement, Name and No.		8. Lease Name and Well No. SD WE 15 FED P9 8H (317456)	
9. API Well No. 30-025-43648 (97835)		10. Field and Pool, or Exploratory JENNINGS / UPPER BN SPR SHALE	
11. Sec., T. R. M. or Blk. and Survey or Area SEC 15 / T26S / R32E / NMP		12. County or Parish LEA	
13. State NM		14. Distance in miles and direction from nearest town or post office* 33 miles	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 12 feet	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.	19. Proposed Depth 9048 feet / 13996 feet	20. BLM/BIA Bond No. on file FED: CA0329	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) -3157 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 08/03/2016
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 02/16/2017
Title Supervisor Multiple Resources HOBBES		

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  
02/28/17

X

<b>APD ID:</b> 10400003758	<b>Submission Date:</b> 08/03/2016	Highlight All Changes
<b>Operator Name:</b> CHEVRON USA INC	<b>Federal/Indian APD:</b> FED	
<b>Well Name:</b> SD WE 15 FED P9	<b>Well Number:</b> 8H	
<b>Well Type:</b> OIL WELL	<b>Well Work Type:</b> Drill	

Application

**Section 1 - General**

<b>APD ID:</b> 10400003758	<b>Tie to previous NOS?</b>	<b>Submission Date:</b> 08/03/2016
<b>BLM Office:</b> HOBBS	<b>User:</b> Denise Pinkerton	<b>Title:</b> Regulatory Specialist
<b>Federal/Indian APD:</b> FED	<b>Is the first lease penetrated for production Federal or Indian?</b> FED	
<b>Lease number:</b> NMNM118723	<b>Lease Acres:</b> 1280	
<b>Surface access agreement in place?</b>	<b>Allotted?</b>	<b>Reservation:</b>
<b>Agreement in place?</b> NO	<b>Federal or Indian agreement:</b>	
<b>Agreement number:</b>		
<b>Agreement name:</b>		
<b>Keep application confidential?</b> NO		
<b>Permitting Agent?</b> NO	<b>APD Operator:</b> CHEVRON USA INC	
<b>Operator letter of designation:</b>		
<b>Keep application confidential?</b> NO		

**Operator Info**

**Operator Organization Name:** CHEVRON USA INC  
**Operator Address:** 6301 Deauville Blvd. **Zip:** 79706  
**Operator PO Box:**  
**Operator City:** Midland **State:** TX  
**Operator Phone:** (432)687-7866  
**Operator Internet Address:**

**Section 2 - Well Information**

<b>Well in Master Development Plan?</b> NO	<b>Mater Development Plan name:</b>
<b>Well in Master SUPO?</b> NO	<b>Master SUPO name:</b>
<b>Well in Master Drilling Plan?</b> NO	<b>Master Drilling Plan name:</b>

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**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  
WE 15 FED P9

**Number:** 5H-8H

**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:** 12 FT

**Reservoir well spacing assigned acres Measurement:** 160 Acres

**Well plat:** SD WE 15 FED P9 8H C-102\_07-27-2016.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:** 32.035506

**Longitude:** -103.658233

SHL

**Elevation:** -3157

**MD:** 0

**TVD:** 0

**Leg #:** 1

**Lease Type:** FEDERAL

**Lease #:** NMNM118723

**NS-Foot:** 12

**NS Indicator:** FSL

**EW-Foot:** 1396

**EW Indicator:** FEL

**Twsp:** 26S

**Range:** 32E

**Section:** 15

**Aliquot:** SESE

**Lot:**

**Tract:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

	<b>STATE:</b> NEW MEXICO	<b>Meridian:</b> NEW MEXICO PRINCIPAL	<b>County:</b> LEA
	<b>Latitude:</b> 32.049684	<b>Longitude:</b> -103.654768	
KOP	<b>Elevation:</b> -11725	<b>MD:</b> 8655	<b>TVD:</b> 8568
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118723	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 1662	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 15
	<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> 32.049684	<b>Longitude:</b> -103.654768	
PPP	<b>Elevation:</b> -12133	<b>MD:</b> 9145	<b>TVD:</b> 8976
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118723	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 1662	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 15
	<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> 32.049684	<b>Longitude:</b> -103.654768	
EXIT	<b>Elevation:</b> -12205	<b>MD:</b> 13846	<b>TVD:</b> 9048
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118723	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 1662	<b>EW Indicator:</b> FEL	
	<b>Twsp:</b> 26S	<b>Range:</b> 32E	<b>Section:</b> 15
	<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> 32.049684	<b>Longitude:</b> -103.654768	
BHL	<b>Elevation:</b> -12205	<b>MD:</b> 13996	<b>TVD:</b> 9048
<b>Leg #: 1</b>	<b>Lease Type:</b> FEDERAL	<b>Lease #:</b> NMNM118723	
	<b>NS-Foot:</b> 180	<b>NS Indicator:</b> FNL	
	<b>EW-Foot:</b> 340	<b>EW Indicator:</b> FEL	

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

Twsp: 26S

Range: 32E

Section: 15

Aliquot: NWNE

Lot:

Tract:

## Drilling Plan

### Section 1 - Geologic Formations

ID: Surface formation

Name: RUSTLER

**Lithology(ies):**

SHALE

DOLOMITE

ANHYDRITE

Elevation: 3157

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: 157

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: -1543

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 P9

**Well Number:** 8H

**ID:** Formation 3

**Name:** BELL CANYON

**Lithology(ies):**

SANDSTONE

**Elevation:** -1823

**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:** -2718

**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:** -4268

**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:** -5648

**True Vertical Depth:** 8805

**Measured Depth:** 8805

**Mineral Resource(s):**

OIL

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**Is this a producing formation?** N

**ID:** Formation 7

**Name:** AVALON

**Lithology(ies):**

SHALE

**Elevation:** -5718

**True Vertical Depth:** 8875

**Measured Depth:** 8875

**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:** Will have a minimum of a 5000 psi rig stack and choke (see proposed schematic) for drill out below surface casing

**Requesting Variance?** NO

**Variance request:**

**Testing Procedure:** Test BOP from 250 PSI to 5,000 PSI in Ram, and 250 to 3,500 in Annular. Please see BOPE attachment

**Choke Diagram Attachment:**

SD WE 15 FED P9 5-8H 5K BOPE and Choke Schematic\_08-02-2016.pdf

**BOP Diagram Attachment:**

SD WE 15 FED P9 5-8H 5K BOPE and Choke Schematic\_08-02-2016.pdf

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## Section 3 - Casing

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**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**String Type:** INTERMEDIATE

**Other String Type:**

**Hole Size:** 12.25

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -3157

**Bottom setting depth MD:** 4530

**Bottom setting depth TVD:** -4487

**Bottom setting depth MSL:** 1330

**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 P9 8H 9ppt Plan\_09-15-2016.pdf

**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**String Type:** PRODUCTION

**Other String Type:**

**Hole Size:** 8.75

**Top setting depth MD:** 0

**Top setting depth TVD:** 0

**Top setting depth MSL:** -3157

**Bottom setting depth MD:** 13996

**Bottom setting depth TVD:** -9048

**Bottom setting depth MSL:** 5891

**Calculated casing length MD:** 13996

**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 P9 8H\_CSG SPEC\_09-15-2016.pdf

SD WE 15 Fed P9 8H 9ppt Plan\_09-15-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

String Type: SURFACE

Other String Type:

Hole Size: 17.5

Top setting depth MD: 0

Top setting depth TVD: 0

Top setting depth MSL:

Bottom setting depth MD: -670

Bottom setting depth TVD: -670

Bottom setting depth MSL: -2487

Calculated casing length MD: 670

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 P9 8H 9ppt Plan\_09-15-2016.pdf

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### Section 4 - Cement

Casing String Type: SURFACE

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 670

Cement Type: Class C

Additives: None

Quantity (sks): 801

Yield (cu.ff./sk): 1.35

Density: 14.8

Volume (cu.ft.): 193

Percent Excess:

Casing String Type: INTERMEDIATE

Stage Tool Depth:

Lead

Top MD of Segment: 0

Bottom MD Segment: 3530

Cement Type: 50:50 Poz Class C

Additives: None

Quantity (sks): 1022

Yield (cu.ff./sk): 2.43

Density: 11.9

Volume (cu.ft.): 442

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: 8655

Bottom MD Segment: 12996

Cement Type: 50:50 Poz Class H/TXI

Additives: None

Quantity (sks): 1625

Yield (cu.ff./sk): 1.62

Density: 12.5

Volume (cu.ft.): 264

Percent Excess: 35

Tail

Top MD of Segment: 12996

Bottom MD Segment: 13996

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 P9

Well Number: 8H

### 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: 670
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: 670	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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**Operator Name:** CHEVRON USA INC

**Well Name:** SD WE 15 FED P9

**Well Number:** 8H

**Top Depth:** 4530

**Bottom Depth:** 13996

**Mud Type:** OTHER

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:**

## 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:** 2509.44

**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 FED P9 5-8H H2S Plan\_08-02-2016.docx

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

### Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

SD WE 15 Fed P9 No. 8H\_Prelim 2\_Plot\_08-03-2016.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 P9 8H 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 P9 8H Well Pad\_07-28-2016.pdf

New road type: LOCAL

Length: 62

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 15 FED P9

Well Number: 8H

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 FED P9 8H Radius Map\_08-02-2016.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: Existing Facilities Located in Section 14, T26S R32E

Production Facilities map:

SD WE 15 P9\_Aerial\_09-15-2016.pdf

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

### 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 15 P9\_Aerial\_09-15-2016.pdf

SD WE 15 FED P9 8H SUPO\_09-15-2016.pdf

**Water source comments:** Primary Pond in Section 23, T26S-R32E will be used for fresh water. Secondary pond to be situated in Sections 13 & 14, T26S-R32E

**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 P9

Well Number: 8H

State appropriation permit:

Additional information attachment:

### Section 6 - Construction Materials

**Construction Materials description:** Caliche for Pads and Roads Caliche will be sourced from SWSE of Section 22 T26S-R33E, and secondary source at NESW Section 21 T26S-R32E

**Construction Materials source location attachment:**

### Section 7 - Methods for Handling Waste

**Waste type:** GARBAGE

**Waste content description:** Garbage and Trash produced during drilling

**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 Disposal 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 15 FED P9

Well Number: 8H

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 P9 8H Well Pad\_07-28-2016.pdf

SD WE 15 FED P9 5-8H Nabors Pace X-30 Rig Layout\_08-03-2016.pdf

Comments:

## Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

SD WE 15 Fed P9 8H\_Reclamation\_09-15-2016.pdf

SD WE 15 FED P9 8H SUPO\_09-15-2016.pdf

Drainage/Erosion control construction: See SUP

Drainage/Erosion control reclamation: See SUP

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): 1.071855

Pipeline short term disturbance (acres): 1.071855

Other long term disturbance (acres): 0

Other short term disturbance (acres): 0

Total long term disturbance: 3.5918548

Total short term disturbance: 5.091855

Reconstruction method: See SUP

Topsoil redistribution: See SUP

Soil treatment: See SUP

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 15 FED P9

Well Number: 8H

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:

Seed BMP:

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

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: 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 P9

**Well Number:** 8H

**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:**

**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:**

Operator Name: CHEVRON USA INC

Well Name: SD WE 15 FED P9

Well Number: 8H

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:

## 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 P9

Well Number: 8H

## 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 P9

**Well Number:** 8H

**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 P9

Well Number: 8H

### 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 P9

**Well Number:** 8H

**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 P9

**Well Number:** 8H

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**

### Payment Info

#### Payment

**APD Fee Payment Method:** BLM DIRECT

**CBS Receipt number:** 3616019