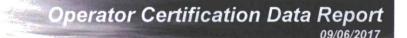
Form 3160-3 (March 2012)		FORM APPROVED OMB No. 1004-0137 Expires October 31, 2014					
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA			5. Lease Seria NMLC061873	il No.			
APPLICATION FOR PERMIT TO D			6. If Indian, Allotee or Tribe Name				
la. Type of work: DRILL REENTER			7 If Unit or CA Agreement, Name and No.				
Ib. Type of Well: 🖌 Oil Well 🗌 Gas Well 💭 Other	Single Zone Multi	iple Zone	8. Lease Name COTTON DR	e and Well No. AW UNIT 50	(300635)		
2. Name of Operator DEVON ENERGY PRODUCTION COMP	PANY LP (6137)		9. API Well N	0.	13938		
	b. Phone No. (include area code) (405)552-6571	we	10 Field and Po	ol, or Explorato	53200M; BS		
4. Location of Well (Report location clearly and in accordance with any S At surface LOT 4 / 545 FSL / 960 FWL / LAT 32.1245718 /			11. Sec., T. R. M SEC 18 / T25				
At proposed prod. zone NWNW / 290 FNL / 990 FWL / LAT 3	2.1512833 / LONG -103.719	97805					
14. Distance in miles and direction from nearest town or post office*			12. County or Pa LEA	arish	13. State NM		
location to nearest 200 foot	16. No. of acres in lease 1759.31	17. Spacin 320	ng Unit dedicated to	HC			
to nearest well, drilling, completed, 330 feet	19. Proposed Depth 10395 feet / 19950 feet	20. BLM/ FED: CO	BIA Bond No. on f 01104		0 6 2017		
	 Approximate date work will sta 07/12/2017 	art*	23. Estimated d 35 days	uration			
	24. Attachments						
The following, completed in accordance with the requirements of Onshore O	Oil and Gas Order No.1, must be a	attached to th	is form:				
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System La SUPO must be filed with the appropriate Forest Service Office). 		cation	ns unless covered				
25. Signature (Electronic Submission)	Name (Printed Typed) Linda Good / Ph: (405)	552-6558		Date 04/17/	2017		
Title Regulatory Compliance Professional							
Approved by (Signature) (Electronic Submission)	Name (Printed Typed) Cody Layton / Ph: (575)	234-5959		Date 08/31	/2017		
Title Supervisor Multiple Resources	Office CARLSBAD						
Application approval does not warrant or certify that the applicant holds le conduct operations thereon. Conditions of approval, if any, are attached.	egal or equitable title to those rig	hts in the sub	oject lease which w	ould entitle the	applicant to		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim States any false, fictitious or fraudulent statements or representations as to a	ne for any person knowingly and any matter within its jurisdiction.	willfully to n	nake to any departm	nent or agency	of the United		
(Continued on page 2)			*((Instruction	s on page 2)		

APPROVED WITH CONDITIONS KZ 09/06/17



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT



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: Linda Good Title: Regulatory Compliance Professional Street Address: 333 West Sheridan Avenue City: Oklahoma City State: OK Phone: (405)552-6558 Email address: Linda.Good@dvn.com

Field Representative

 Representative Name: Ray Vaz

 Street Address: 6488 Seven Rivers Hwy

 City: Artesia
 State: NM

 Phone: (575)748-1871

 Email address: ray.vaz@dvn.com

Signed on: 04/17/2017

Zip: 73102

Zip: 88210



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Application Data Report

APD ID: 10400012794	Submission Date: 04/17/2017	Highlighted data
Operator Name: DEVON ENERGY PRODUCTION COMPA	NY LP	reflects the most recent changes
Well Name: COTTON DRAW UNIT	Well Number: 506H	Show Final Text
Well Type: OIL WELL	Well Work Type: Drill	

Section 1 - General

APD ID:	10400012794	Tie to previous NOS?	Submission Date: 04/17/2017
BLM Office:	CARLSBAD	User: Linda Good	Title: Regulatory Compliance
Federal/Indian APD: FED		Is the first lease penetrate	Professional d for production Federal or Indian? FED
Lease numb	er: NMLC061873B	Lease Acres: 1759.31	
Surface acco	ess agreement in place?	Allotted?	Reservation:
Agreement i	n place? NO	Federal or Indian agreeme	nt:
Agreement r	number:		
Agreement r	name:		
Keep applica	ation confidential? YES		
Permitting A	gent? NO	APD Operator: DEVON EN	ERGY PRODUCTION COMPANY LP
Operator let	ter of designation:		

Operator Info

Operator Organization Name: DEVON ENERGY PRODU	CTION COMPANY LP
Operator Address: 333 West Sheridan Avenue	Z in: 72102
Operator PO Box:	Zip: 73102
Operator City: Oklahoma City State: OK	
Operator Phone: (405)552-6571	
Operator Internet Address: aletha.dewbre@dvn.com	

Section 2 - Well Information

Well in Master Development Plan? NEW	Mater Development Plan name: Cotton Draw 1 MDP							
Well in Master SUPO? NO	Master SUPO name:							
Well in Master Drilling Plan? NO	Master Drilling Plan name:							
Well Name: COTTON DRAW UNIT	Well Number: 506H	Well API Number:						
Field/Pool or Exploratory? Field and Pool	Field Name: PADUCA	Pool Name: BONE SPRING						

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL

Well Name: COTTON DRAW UNIT

Well Number: 506H

Describe other minerals:						
Is the proposed well in a Helium produ	iction area? N	Use Existing Well Pad?	NO	New surface disturbance?		
Type of Well Pad: MULTIPLE WELL		Multiple Well Pad Name	e:	Number:		
Well Class: HORIZONTAL		COTTON DRAW UNIT Number of Legs: 1		506H/507H/508H/509H		
Well Work Type: Drill						
Well Type: OIL WELL						
Describe Well Type:						
Well sub-Type: INFILL						
Describe sub-type:						
Distance to town:	Distance to ne	arest well: 330 FT	Distanc	e to lease line: 290 FT		
Reservoir well spacing assigned acres	Measurement:	320 Acres				
Well plat: CDU_506H_C_102_signed	d_04-05-2017.pd	f				
Well work start Date: 07/12/2017		Duration: 35 DAYS				

Section 3 - Well Location Table

Survey Type: RECTANGULAR
Describe Survey Type:

Datum: NAD83

Survey number: 5173

Vertical Datum: NAVD88

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
SHL	545	FSL	960	FWL	25S	32E	18	Lot	32.12457		LEA	NEW	NEW	F	NMLC0	340	0	0
Leg								4	18	103.1245					61873B	8		
#1			-32.0		1.00					718		CO	CO					
KOP	545	FSL	960	FWL	25S	32E	18	Lot	32.12457	-	LEA	NEW	NEW	F	NMLC0	-	990	990
Leg								4	18	103.1245		MEXI	MEXI		61873B	649	2	2
#1	1314									718		CO	CO			4		
PPP	525	FSL	960	FWL	25S	32E	18	Aliquot	32.12457	-144	LEA	NEW	NEW	F	NMLC0	-	100	100
Leg								SWS	18	103.1245		MEXI	MEXI		61873B	664	55	54
#1								W		718		со	co			6		

Well Name: COTTON DRAW UNIT

Well Number: 506H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
PPP	132	FNL	976	FWL	25S	32E	18	Aliquot	32.12457	-	LEA	NEW		F	NMLC0	-	136	104
Leg	0							NWN	18	103.1245 718		MEXI CO	MEXI		61873A	702	37	32
#1								W		/10		00	00			4		
PPP	660	FSL	974	FWL	25S	32E	7	Aliquot	32.15128		LEA			F	NMLC0	-	156	104
Leg			, inte					SWS	33	103.7197			MEXI		61873	699	17	01
#1	See.							W		805		CO	CO			3		
EXIT	290	FNL	990	FWL	25S	32E	7	Aliquot	32.15128	-	LEA	NEW	NEW	F	NMLCO	-	199	103
Leg						1		NWN	33	103.7197		MEXI	MEXI		61863A	698	50	95
#1								W		805		CO	CO			7		
BHL	290	FNL	990	FWL	25S	32E	7	Aliquot	32.15128	-	LEA	NEW	NEW	F	NMLC0	-	199	103
Leg								NWN	33	103.7197		MEXI	MEXI		61863A	698	50	95
#1								W		805		со	со			7		



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

2.75

 APD ID: 10400012794
 Submission Date: 04/17/2017
 Highlighted data reflects the most recent changes

 Operator Name: DEVON ENERGY PRODUCTION COMPANY LP
 Well Number: 506H
 Show Final Text

 Well Type: OIL WELL
 Well Work Type: Drill
 Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
17691	UNKNOWN	3404	0	0	ALLUVIUM	NONE	No
17746	RUSTLER	2735	669	669	LIMESTONE	NONE	No
18574	SALADO	2407	997	997	SALT	NONE	No
17722	BASE OF SALT	-843	4247	4247	SALT	NONE	No
15315	DELAWARE	-1071	4475	4475	SANDSTONE	NATURAL GAS,OIL	No
17688	BONE SPRING	-4961	8365	8365	LIMESTONE	NATURAL GAS,OIL	No
17737	BONE SPRING 2ND	-6650	10054	10054	SANDSTONE	NATURAL GAS,OIL	Yes

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10475

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

CDU_506H_3M_BOPE_CK_04-03-2017.pdf

BOP Diagram Attachment:

CDU_506H_3M_BOPE_CK_04-03-2017.pdf

Well Name: COTTON DRAW UNIT

Well Number: 506H

Pressure Rating (PSI): 3M

Rating Depth: 4350

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 13-3/8" surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 3M will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

Testing Procedure: A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Choke Diagram Attachment:

CDU_506H_3M_BOPE_CK_04-03-2017.pdf

BOP Diagram Attachment:

CDU_506H_3M_BOPE_CK_04-03-2017.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	788	0	788	-7024	-7812	788	H-40	48	STC	1.74	2.45	BUOY	4.13	BUOY	4.13
2	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	4350	0	4350	-7024	- 11374		J-55	40	LTC	1.19	1.42	BUOY	3.98	BUOY	3.98
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	19950	0	10395	-7024	- 17419	19950	P- 110	17	BUTT	2.18	2.7	BUOY	3.21	BUOY	3.21

Casing Attachments

Well Name: COTTON DRAW UNIT

Well Number: 506H

Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CDU_506H_Surf_Csg_Ass_04-03-2017.pdf

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CDU_506H_Int_Csg_Ass_04-03-2017.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

CDU_506H_ProdCasing_Ass_04-03-2017.pdf

Section 4 - Cement

Well Name: COTTON DRAW UNIT

Well Number: 506H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	788	613	1.34	14.8	821	50	С	1% Calcium Chloride
INTERMEDIATE	Lead		0	3350	737	1.85	12.9	1363	30	С	Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake
INTERMEDIATE	Tail		3350	4350	306	1.33	14.8	407	30	С	0.125 lbs/sks Poly-R- Flake
PRODUCTION	Lead		4150	1035 0	599	3.27	9	1958	25	TUNED	N/A
PRODUCTION	Tail		1035 0	1995 0	2526	1.2	14.5	3031	25	Н	Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.2% BWOC HR-601 + 2% bwoc Bentonite

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: Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Describe the mud monitoring system utilized: PVT/Pason/Visual Monitoring

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (Ibs/gal)	Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	HA	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
788	4350	OTHER : SATURATED BRINE	10	11							

Well Name: COTTON DRAW UNIT

Well Number: 506H

O Top Depth	Bottom Depth 882	OTHER : FRESH WATER	8 Min Weight (Ibs/gal)	ယ Max Weight (Ibs/gal)	Density (Ibs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
GEL											
4350	1995 0	OTHER : CUT BRINE	8.5	9.3							

Section 6 - Test, Logging, Coring

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

Will run GR/CNL fromTD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.

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

MWD,MUDLOG

Coring operation description for the well: N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4658

Anticipated Surface Pressure: 2362.96

Anticipated Bottom Hole Temperature(F): 164

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

CDU_506H_H2S_Plan_04-03-2017.pdf

Well Name: COTTON DRAW UNIT

Well Number: 506H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

CDU_506H_Dir_Plan_04-03-2017.pdf

CDU_506H_Leam_Dir_Plan_04-05-2017.pdf

Other proposed operations facets description:

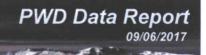
Other proposed operations facets attachment:

CDU_506H_Clsd_Loop_04-03-2017.pdf CDU_506H_MB_Verb_3M_04-03-2017.pdf CDU_506H_MB_Wellhd_04-03-2017.pdf CDU_506H_Drilling_Plan_04-05-2017.pdf CDU_506H_Gas_Capture_Plan_06-07-2017.pdf

Other Variance attachment:

CDU_506H_Co_flex_04-03-2017.pdf





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:** Lined pit PWD on or off channel: Lined pit PWD discharge volume (bbl/day): Lined pit specifications: Pit liner description: Pit liner manufacturers information: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: Lined pit precipitated solids disposal schedule: Lined pit precipitated solids disposal schedule attachment: Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment:

PWD disturbance (acres):

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

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

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

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

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

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

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location: PWD surface owner:

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

PWD disturbance (acres):

PWD disturbance (acres):

Injection well type: Injection well number: Assigned 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: Other PWD discharge volume (bbl/day): Other PWD type description: Other PWD type attachment: Have other regulatory requirements been met? Other regulatory requirements attachment:

PWD disturbance (acres):

Injection well name: Injection well API number:

WAFMSS

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Bond Information

Federal/Indian APD: FED

BLM Bond number: CO1104

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:

Bond Info Data Report 09/06/2017