						17-10
4 3		OCD Hot	bs			
Form 3160 -3 (March 2012) UNITED STATE		HOBB	S OC	OMB N	APPROVE o. 1004-013 ctober 31, 20	7
DEPARTMENT OF THE BUREAU OF LAND MAI	NAGEMENT	in the second se	1 2017	NMLC061869	T.L.N	- find
APPLICATION FOR PERMIT TO	DRILL OF		IVE	6. If Indian, Allotee	or Tribe N	lame
la. Type of work:				7. If Unit or CA Agree	ement, Nar	ne and No.
lb. Type of Well: 🖌 Oil Well 🗌 Gas Well 🗍 Other	Si	ngle Zone 🔽 Multip	ole Zone	8. Lease Name and W MORAB 29-20 FED		H 316128
2. Name of Operator DEVON ENERGY PRODUCTION CO		(6137)		9. API Well No. 30-025-		
3a. Address 333 West Sheridan Avenue Oklahoma City Ol		. (include area code)	1 and	10. Field and Pool, or H	Exploratory	12822211
4. Location of Well (Report location clearly and in accordance with a	any State requirem	nents.*)		11. Sec., T. R. M. or B	lk. and Sur	vey or Area Low
At surface SWNE / 2455 FNL / 2642 FEL / LAT 32.101 At proposed prod. zone NWNE / 290 FNL / 1980 FEL / LA		ANTENESTED.	2821	SEC 29 / T25S / R	32E / NM	P
4. Distance in miles and direction from nearest town or post office*	1 52,125107	37 20149-103.037	2021	12. County or Parish LEA		13. State
 15. Distance from proposed* location to nearest 185 feet property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No. of a 2398.96	acres in lease	17. Spacin 240	g Unit dedicated to this v	vell	
 Distance from proposed location* to nearest well, drilling, completed, 50 feet applied for, on this lease, ft. 	19. Propose 10496 fee	d Depth t / 17828 feet	20. BLM/ FED: CO	BIA Bond No. on file 01104		
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 3361 feet	22. Approxi 09/16/201	mate date work will sta 18	rt*	23. Estimated duration 45 days	n	
	24. Atta					
 Fhe following, completed in accordance with the requirements of Onsh Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 		 Bond to cover t Item 20 above). Operator certified 	he operatio cation	is form: ns unless covered by an ormation and/or plans as	0	,
25. Signature (Electronic Submission)		(Printed/Typed) a Good / Ph: (405)5	52-6558		Date 11/15/2	2016
Title Regulatory Compliance Professional						
Approved by (Signature) (Electronic Submission)		(Printed/Typed) len / Ph: (575)234-5	5978		Date 04/25/2	2017
itle Wildlife Biologist	Office HOB					
Application approval does not warrant or certify that the applicant holo onduct operations thereon. Conditions of approval, if any, are attached.	lds legal or equi	table title to those righ	ts in the sub	ject lease which would e	ntitle the a	pplicant to
Fitle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as	crime for any p s to any matter v	erson knowingly and within its jurisdiction.	willfully to n	nake to any department o	r agency (of the United

(Continued on page 2)

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



Highlight All Changes

APD ID: 10400007298

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP Well Name: MORAB 29-20 FED COM Well Type: OIL WELL

Submission Date: 11/15/2016 Federal/Indian APD: FED Well Number: 3H Well Work Type: Drill

Application

Section 1 - General		
APD ID: 10400007298	Tie to previous NOS?	Submission Date: 11/15/2016
BLM Office: HOBBS	User: Linda Good	Title: Regulatory Compliance
Federal/Indian APD: FED	Is the first lease penetrat	Professional ted for production Federal or Indian? FED
Lease number: NMLC061869	Lease Acres: 2398.96	
Surface access agreement in place?	Allotted?	Reservation:
Agreement in place? NO	Federal or Indian agreem	nent:
Agreement number:		
Agreement name:		
Keep application confidential? YES		
Permitting Agent? NO	APD Operator: DEVON E	NERGY PRODUCTION COMPANY LP
Operator letter of designation:		
Keep application confidential? YES		

Operator Info

Operator Organization Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Address: 333 West Sheridan Avenue

Operator PO Box:

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? NO Well in Master SUPO? NO Well in Master Drilling Plan? NO Mater Development Plan name: Master SUPO name: Master Drilling Plan name:

Zip: 73102

	r 1		
Operator Nar	ne: DEVON ENERGY PRODUCT	TION COMPANY LP	
Well Name: N	IORAB 29-20 FED COM	Well Number:	3Н
Woll Name: M	ORAB 29-20 FED COM	Well Number: 3H	Well API Number:
	Exploratory? Field and Pool	Field Name: PADL	
	ed well in an area containing of		
Describe othe			
	ed well in a Helium production	area? N Use Existing Well	Pad? NO New surface disturbance?
	Pad: MULTIPLE WELL	Multiple Well Pad MORAB 29-20 FEI	
Well Class: H	ORIZONTAL	Number of Legs:	
Well Work Ty	pe: Drill		
Well Type: OI	L WELL		
Describe Wel	I Туре:		
Well sub-Typ	e: INFILL		
Describe sub	-type:		
Distance to to	own: Dista	nce to nearest well: 50 FT	Distance to lease line: 185 FT
Reservoir we	II spacing assigned acres Meas	urement: 240 Acres	
Well plat:	Morab 29-20 Fed Com 3H_C-102	_signed_10-28-2016.pdf	
Well work sta	rt Date: 09/16/2018	Duration: 45 DAYS	S
Sectio	n 3 - Well Location Tabl	0	
Sectio		6	
	RECTANGULAR		
Describe Surv			
Datum: NAD8		Vertical Datum: N	AVD88
Survey numb	er: 3991A		
	STATE: NEW MEXICO	Meridian: NEW MEXICO	O PRINCIPAL County: LEA
	Latitude: 32.1018626	Longitude: -103.697172	21
SHL	Elevation: 3361	MD: 0	TVD: 0
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC062300	
	NS-Foot: 2455	NS Indicator: FNL	
	EW-Foot: 2642	EW Indicator: FEL	
	Twsp: 25S	Range: 32E	Section: 29
	Aliquot: SWNE	Lot:	Tract:

Well Name: MORAB 29-20 FED COM

4 44 A

Well Number: 3H

	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: LEA
	Latitude: 32.1018626	Longitude: -103.6971721
KOP	Elevation: -6665	MD: 10036 TVD: 10026
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC062300
	NS-Foot: 2475	NS Indicator: FNL
	EW-Foot: 2259	EW Indicator: FEL
	Twsp: 25S	Range: 32E Section: 29
	Aliquot: SWNE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: LEA
	Latitude: 32.1018626	Longitude: -103.6971721
PPP	Elevation: -7135	MD: 10633 TVD: 10496
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC062300
	NS-Foot: 2184	NS Indicator: FNL
	EW-Foot: 2255	EW Indicator: FEL
	Twsp: 25S	Range: 32E Section: 29
	Aliquot: SWNE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: LEA
	Latitude: 32.1231073	Longitude: -103.6972821
EXIT	Elevation: -7135	MD: 17828 TVD: 10496
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061869
	NS-Foot: 290	NS Indicator: FNL
	EW-Foot: 1980	EW Indicator: FEL
	Twsp: 25S	Range: 32E Section: 20
	Aliquot: NWNE	Lot: Tract:
	STATE: NEW MEXICO	Meridian: NEW MEXICO PRINCIPAL County: LEA
	Latitude: 32.1231073	Longitude: -103.6972821
BHL	Elevation: -7135	MD: 17828 TVD: 10496
Leg #: 1	Lease Type: FEDERAL	Lease #: NMLC061869
	NS-Foot: 290	NS Indicator: FNL
	EW-Foot: 1980	EW Indicator: FEL

Operator Name: DEVON ENERGY P		
Well Name: MORAB 29-20 FED CON	M Well Number	ər: 3H
Twsp: 25S	Range: 32E	Section: 20
Aliquot: NWNE	Lot:	Tract:
	Drilling Plan	
Section 1 - Geologic F	ormations	
D: Surface formation	Name: UNKNOWN	
.ithology(ies):		
ALLUVIUM		
Elevation: 3361	True Vertical Depth: 0	Measured Depth: 0
/lineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 1	Name: RUSTLER	
_ithology(ies):		
DOLOMITE		
Elevation: 2383	True Vertical Depth: 978	Measured Depth: 978
/ineral Resource(s):		
NONE		
s this a producing formation? N		
D: Formation 2	Name: SALADO	
.ithology(ies):		
SALT		
Elevation: 2130	True Vertical Depth: 1231	Measured Depth: 1231
/lineral Resource(s):		
NONE		
s this a producing formation? N		

Well Name: MORAB 29-20 FED COM	Well Number	: 3H
ID: Formation 3	Name: BASE OF SALT	
Lithology(ies):		
ANHYDRITE		
Elevation: -930	True Vertical Depth: 4291	Measured Depth: 4291
Mineral Resource(s):		
NONE		
Is this a producing formation? N		
ID: Formation 4	Name: DELAWARE	
Lithology(ies):		
SANDSTONE		
Elevation: -1168	True Vertical Depth: 4529	Measured Depth: 4529
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 5	Name: BELL CANYON	
Lithology(ies):		
SANDSTONE		
Elevation: -1203	True Vertical Depth: 4564	Measured Depth: 4564
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 6	Name: CHERRY CANYON	
Lithology(ies):		
SANDSTONE		
Elevation: -2091	True Vertical Depth: 5452	Measured Depth: 5452

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1 46 1		
Operator Name: DEVON ENERGY PRO	ODUCTION COMPANY LP	
Well Name: MORAB 29-20 FED COM	Well Number: 3H	
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
D: Formation 7	Name: BRUSHY CANYON	
Lithology(ies):		
SANDSTONE		
Elevation: -3238	True Vertical Depth: 6599	Measured Depth: 6599
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 8	Name: BONE SPRING	
Lithology(ies):		
LIMESTONE		
Elevation: -5042	True Vertical Depth: 8403	Measured Depth: 8403
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		
ID: Formation 9	Name: BONE SPRING 1ST	
Lithology(ies):		
SANDSTONE		
Elevation: -6124	True Vertical Depth: 9485	Measured Depth: 9485
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		

Well Name: MORAB 29-20 FED COM	Well Number:	3H
D: Formation 10	Name: BONE SPRING 2ND	
Lithology(ies):		
LIMESTONE		
Elevation: -6365	True Vertical Depth: 9726	Measured Depth: 9726
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? N		
ID: Formation 11	Name: BONE SPRING 2ND	
Lithology(ies):		
SANDSTONE		
Elevation: -6722	True Vertical Depth: 10083	Measured Depth: 10083
Mineral Resource(s):		
NATURAL GAS		
OIL		
Is this a producing formation? Y		

Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10496

Equipment: 3M rotating head, mud-gas seperator, panic line, and flare will be rigged up prior to drilling out surface casing.

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:

Morab 29-20 Fed Com 3H_3M BOPE_Ck_10-28-2016.pdf

BOP Diagram Attachment:

Morab 29-20 Fed Com 3H_3M BOPE_Ck_10-28-2016.pdf

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Pressure Rating (PSI): 3M

Rating Depth: 4315

Equipment: 3M rotating head, mud-gas seperator, panic line, and flare will be rigged up prior to drilling out surface casing.

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:

Morab 29-20 Fed Com 3H_3M BOPE_Ck_10-28-2016.pdf

BOP Diagram Attachment:

Morab 29-20 Fed Com 3H_3M BOPE_Ck_10-28-2016.pdf

Section 3 - Casing

Operator Name: DEVON ENERGY PRO	ODUCTION COMPA	NY LP
Well Name: MORAB 29-20 FED COM		Well Number: 3H
String Type: SURFACE	Other String Type	:
Hole Size: 17.5		
Top setting depth MD: 0		Top setting depth TVD: 0
Top setting depth MSL: 3361		
Bottom setting depth MD: 1000		Bottom setting depth TVD: 1000
Bottom setting depth MSL: 2361		
Calculated casing length MD: 1000		
Casing Size: 13.375	Other Size	
Grade: J-55	Other Grade:	
Weight: 48		
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: 1.74	ţ	Burst Design Safety Factor: 2.45

Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 2.45 Joint Tensile Design Safety Factor: 4.13 Body Tensile Design Safety Factor: 4.13

Morab 29-20 Fed Com 3H_SurfCsg Ass_10-28-2016.pdf

4 Ag 3		
Operator Name: DEVON ENERGY PRO	DUCTION COMPA	NY LP
Well Name: MORAB 29-20 FED COM		Well Number: 3H
String Type: INTERMEDIATE	Other String Type:	
Hole Size: 12.25		
Top setting depth MD: 0		Top setting depth TVD: 0
Top setting depth MSL: 3361		
Bottom setting depth MD: 4315		Bottom setting depth TVD: 4315
Bottom setting depth MSL: -954		
Calculated casing length MD: 4315		
Casing Size: 9.625	Other Size	
Grade: J-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: 1.19		Burst Design Safety Factor: 1.42

Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s): Joint Tensile Design Safety Factor: 3.98 Body Tensile Design Safety Factor: 3.98

Morab 29-20 Fed Com 3H_Int Csg Ass_10-28-2016.pdf

e ste t	
Operator Name: DEVON ENERGY PRO	ODUCTION COMPANY LP
Well Name: MORAB 29-20 FED COM	Well Number: 3H
String Type: PRODUCTION	Other String Type:
Hole Size: 8.75	
Top setting depth MD: 0	Top setting depth TVD: 0
Top setting depth MSL: 3361	
Bottom setting depth MD: 17828	Bottom setting depth TVD: 10496
Bottom setting depth MSL: -7135	
Calculated casing length MD: 17828	
Casing Size: 5.5	Other Size
Grade: P-110	Other Grade:
Weight: 17	
Joint Type: BUTT	Other Joint Type:
Condition: NEW	
Inspection Document:	
Standard: API	
Spec Document:	
Tapered String?: N	
Tapered String Spec:	
Safety Factors	

Collapse Design Safety Factor: 2.18 Joint Tensile Design Safety Factor type: BUOYANT Body Tensile Design Safety Factor type: BUOYANT Casing Design Assumptions and Worksheet(s): Burst Design Safety Factor: 2.7 Joint Tensile Design Safety Factor: 3.21 Body Tensile Design Safety Factor: 3.21

Morab 29-20 Fed Com 3H_ProdCsg Ass_10-28-2016.pdf

Section 4 - Cement

Casing String Type: SURFACE

Well Name: MORAB 29-20 FED COM

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e.

Well Number: 3H

Stage Tool Depth:		
<u>Lead</u>		
Top MD of Segment: 0	Bottom MD Segment: 1000	Cement Type: C
Additives: 1% Calcium Chloride	Quantity (sks): 778	Yield (cu.ff./sk): 1.34
Density: 14.8	Volume (cu.ft.): 1042	Percent Excess: 50
Casing String Type: INTERMEDIATE		
Stage Tool Depth:		
Lead		
Top MD of Segment: 0	Bottom MD Segment: 3315	Cement Type: C
Additives: Poz (Fly Ash): 6% BWOC	Quantity (sks): 730	Yield (cu.ff./sk): 1.85
Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sks Poly-E-Flake Pensity: 12.9	Volume (cu.ft.): 1350	Percent Excess: 30
	Bottom MD Segment: 4315	Cement Type: H
Top MD of Segment: 3315	Quantity (sks): 320	Yield (cu.ff./sk): 1.33
Additives: 0.125 lbs/sks Poly-R-Flake	Volume (cu.ft.): 426	Percent Excess: 30
Density: 14.8		
Casing String Type: PRODUCTION		
Stage Tool Depth:		
<u>Lead</u>		
Top MD of Segment: 4115	Bottom MD Segment: 10350	Cement Type: TUNED
Additives: N/A	Quantity (sks): 612	Yield (cu.ff./sk): 3.27
Density: 9	Volume (cu.ft.): 2000	Percent Excess: 25
<u>Tail</u>		
Top MD of Segment: 10350	Bottom MD Segment: 17828	Cement Type: H
Additives: Poz (Fly Ash) + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 +	Quantity (sks): 1967	Yield (cu.ff./sk): 1.2
0.2% BWOC HR-601 + 2% bwoc Bentonite Density: 14.5	Volume (cu.ft.): 2360	Percent Excess: 25

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

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

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

Describe what will be on location to control well or mitigate other conditions: 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: 1000	Bottom Depth: 4315
Mud Type: SALT SATURATED	
Min Weight (Ibs./gal.): 10	Max Weight (Ibs./gal.): 11
Density (Ibs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP): 2
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	
Top Depth: 0	Bottom Depth: 1000
Top Depth: 0 Mud Type: WATER-BASED MUD	Bottom Depth: 1000
	Bottom Depth: 1000 Max Weight (Ibs./gal.): 9
Mud Type: WATER-BASED MUD	
Mud Type: WATER-BASED MUD Min Weight (Ibs./gal.): 8.5	Max Weight (Ibs./gal.): 9
Mud Type: WATER-BASED MUD Min Weight (Ibs./gal.): 8.5 Density (Ibs/cu.ft.):	Max Weight (Ibs./gal.): 9 Gel Strength (Ibs/100 sq.ft.):

Well Name: MORAB 29-20 FED COM

Top Depth: 4315	Bottom Depth: 17828
Mud Type: WATER-BASED MUD	
Min Weight (Ibs./gal.): 8.5	Max Weight (Ibs./gal.): 9.3
Density (lbs/cu.ft.):	Gel Strength (lbs/100 sq.ft.):
PH:	Viscosity (CP): 12
Filtration (cc):	Salinity (ppm):
Additional Characteristics:	

Section 6 - Test, Logging, Coring

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

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

Well Number: 3H

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

CALIPER,CBL,DS,GR,MWD,MUDLOG

Coring operation description for the well: N/A

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4725

Anticipated Surface Pressure: 2415.88

Anticipated Bottom Hole Temperature(F): 165

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Morab 29-20 Fed Com 3H_H2S Plan_10-28-2016.pdf

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Morab 29-20 Fed Com 3H_Dir Plan_10-28-2016.pdf

Other proposed operations facets description:

Multi-Bowl Verbiage Multi-Bowl Wellhead Closed Loop Design Plan Contingency Production Cement

Other proposed operations facets attachment:

Morab 29-20 Fed Com 3H_MB Verb 3M_10-28-2016.pdf Morab 29-20 Fed Com 3H_MB Wellhd_10-28-2016.pdf Morab 29-20 Fed Com 3H_Clsd Loop_10-28-2016.pdf Morab 29-20 Fed Com 3H_ConProdCmt_10-28-2016.pdf

Other Variance attachment:

Morab 29-20 Fed Com 3H_Co-flex_10-28-2016.pdf

SUPO

Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Morab 29-20 Fed Com 3H_Ex AccessRd_10-31-2016.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: Improve road to accommodate Drilling and Completion operations.

Existing Road Improvement Attachment:

Well Name: MORAB 29-20 FED COM

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Well Number: 3H

Section 2 - New or Reco	nstructed Access Roads	
Will new roads be needed? YES		
New Road Map:		
Morab 29-20 Fed Com 3H_Access Rd_10-	31-2016.pdf	
New road type: COLLECTOR, RESOURCE		
Length: 42 Feet	Width (ft.): 16	
Max slope (%): 6	Max grade (%): 4	
Army Corp of Engineers (ACOE) permit	equired? NO	
ACOE Permit Number(s):		
New road travel width: 14		
New road access erosion control: Water	drainage ditch.	
New road access plan or profile prepare	1? YES	
New road access plan attachment:		
Morab 29-20 Fed Com 3H_Access Rd_10-	31-2016.pdf	
Access road engineering design? NO		
Access road engineering design attach	nent:	
Access surfacing type: GRAVEL		
Access topsoil source: ONSITE		
Access surfacing type description:		
Access onsite topsoil source depth: 6		
Offsite topsoil source description:		
Onsite topsoil removal process: See atta	ched Interim reclamation diagram.	
Access other construction information:		
Access miscellaneous information:		
Number of access turnouts:	Access turnout map:	
Drainage Control		
New road drainage crossing: OTHER		
Drainage Control comments: N/A		

_____g_ ___

Road Drainage Control Structures (DCS) description: N/A

Road Drainage Control Structures (DCS) attachment:

Access Additional Attachments

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Additional Attachment(s):

Section 3 - Location of Existing Wells

Existing Wells Map? YES

Attach Well map:

Morab 29-20 Fed Com 3H_1Mile Map_10-31-2016.pdf

Existing Wells description:

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

Submit or defer a Proposed Production Facilities plan? DEFER

Estimated Production Facilities description: All flowlines will be buried going to the CD 29-30 CTB.

Section 5 - Location and Types of Water Supply

Water Source Table

Water source use type: STIMULATION

Describe type:

Source latitude:

Source datum:

Water source permit type: OTHER

Source land ownership: FEDERAL

Water source transport method: PIPELINE, TRUCKING

Source transportation land ownership: FEDERAL

Water source volume (barrels): 202500

Source volume (gal): 8505000

Source longitude:

Water source type: RECYCLED

Source volume (acre-feet): 26.100851

Water source and transportation map:

Morab 29-20 Fed Com 3H_Wtr Xfr Map rev_11-15-2016.pdf

Water source comments: The attached Water Transfer Map is a proposal only and the final route and documentation will be provided by a Devon contractor prior to installation. When available Devon will always follow existing disturbance **New water well?** NO

New Water	Well	Info	
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Well latitude:

Well Longitude:

Well datum:

Operator Name: DEVON ENERGY PRO	DUCTION COMPANY LP
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Well Name: MORAB 29-20 FED COM

Well Number: 3H

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:
Drilling method: Grout material:	Drill material: Grout depth:
Grout material:	Grout depth:
Grout material: Casing length (ft.):	Grout depth: Casing top depth (ft.):
Grout material: Casing length (ft.): Well Production type:	Grout depth: Casing top depth (ft.):

Section 6 - Construction Materials

Construction Materials description: Dirt fill and caliche will be used to construct well pad.

Construction Materials source location attachment:

Morab 29-20 Fed Com 2H_Caliche Pit_12-20-2016.pdf

Section 7 - Methods for Handling Waste

Waste type: DRILLING Waste content description: Water Based Cuttings. Amount of waste: 1810 barrels Waste disposal frequency : Daily Safe containment description: N/A Safe containmant attachment: Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL FACILITY Disposal type description: Disposal location description: All cuttings will disposed of at R360, Sundance, or equivalent.

 Waste type: COMPLETIONS/STIMULATION

 Waste content description: Flow back water during completion operations.

 Amount of waste: 3000
 barrels

 Waste disposal frequency : One Time Only

Operator Name:	DEVON	ENERGY	PRODUCTION	COMPANY LP

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Safe containment description: Flow back water during completion operations.

Safe containmant attachment:

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

Disposal type description:

Disposal location description: Various disposal locations in Lea and Eddy counties.

Waste type: FLOWBACK

Waste content description: Produced water during flowback operations. This amount is a daily average during flowback (BWPD).

Amount of waste: 1500 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: ON-LEASE INJECTION Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

Waste type: PRODUCED WATER

Waste content description: Produced water during production operations. This amount is a daily average during the first year of production (BWPD).

Amount of waste: 1000 barrels

Waste disposal frequency : Daily

Safe containment description: N/A

Safe containmant attachment:

Waste disposal type: ON-LEASE INJECTION Disposal location ownership: PRIVATE

Disposal type description:

Disposal location description: One of three company owned SWD facilities in the area: CDU 181, CDU 89, CDU 84.

	Reserve Pit	
Reserve Pit being used? NO		
Temporary disposal of prode	uced water into reserve pi	t?
Reserve pit length (ft.)	Reserve pit width (ft.)	
Reserve pit depth (ft.)		Reserve pit volume (cu. yd.)
Is at least 50% of the reserve	e pit in cut?	
Reserve pit liner		

Well Name: MORAB 29-20 FED COM

Well Number: 3H

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 depth (ft.)

Cuttings area width (ft.)

Cuttings area volume (cu. yd.)

depth (ft.)

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: Morab 29-20 Fed Com 3H_Rig Layout_10-31-2016.pdf Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: NEW

Recontouring attachment:

Morab 29-20 Fed Com 3H_Reclamation_12-19-2016.pdf

Drainage/Erosion control construction: All areas disturbed shall be reclaimed as early and as nearly as practicable to their original condition or their final land use and shall be maintained to control dust and minimize erosion to the extent practicable. **Drainage/Erosion control reclamation:** Topsoils and subsoils shall be replaced to their original relative positions and contoured so as to achieve erosion control, long-term stability and preservation of surface water flow patterns. The disturbed area then shall be reseeded in the first favorable growing season.

Wellpad long term disturbance (acres): 1.888

Wellpad short term disturbance (acres): 4.157

Access road long term disturbance (acres): 0.015

Access road short term disturbance (acres): 0.015

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10 k	
Operator Name: DEVON ENERGY PRODUCTION CO	OMPANY LP
Well Name: MORAB 29-20 FED COM	Well Number: 3H
Pipeline long term disturbance (acres): 2.95927	Pipeline short term disturbance (acres): 4.9321165
Other long term disturbance (acres): 0	Other short term disturbance (acres): 0
Total long term disturbance: 4.86227	Total short term disturbance: 9.104116
desired outcome. Topsoil redistribution: Topsoils shall be replaced to the control, long-term stability and preservation of surface w	nal relative positions and contoured so as to achieve erosion control, w patterns.
Existing Vegetation at the well pad attachment:	
Existing Vegetation Community at the road: Shinnery	y, yucca, grasses and mesquite.
Existing Vegetation Community at the road attachme	ent:
Existing Vegetation Community at the pipeline: Shin	inery, yucca, grasses and mesquite.
Existing Vegetation Community at the pipeline attac	hment:
Existing Vegetation Community at other disturbance	es: Shinnery, yucca, grasses and mesquite.
Existing Vegetation Community at other disturbance	es 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? N	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:

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Seed Type

Seed reclamation attachment:

Pounds/Acre

Seed reclamation attachment.	
Operator Contact/Respons	ible Official Contact Info
First Name: MARK	Last Name: SMITH
Phone: (575)746-5559	Email: mark.smith@dv
Seedbed prep:	
Seed BMP:	
Seed method:	
Existing invasive species? NO	
Existing invasive species treatment des	scription:
Existing invasive species treatment atta	achment:
Weed treatment plan description: Maint	ain weeds on an as need basis.
Weed treatment plan attachment:	
Monitoring plan description: Monitor as	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: Wilitary Local Office:

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Other Local Office:

USFS Region:

USFS Forest/Grassland:

Disturbance type: PIPELINE

USFS Ranger District:

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:

Operator Name:	DEVON EN	IERGY PRODU	CTION COM	1PANY LP
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Well Name: MORAB 29-20 FED COM

Well Number: 3H

State Local Office:		
Military Local Office:		
USFWS Local Office:		
Other Local Office:		
USFS Region:		
USFS Forest/Grassland:	USFS Ranger District:	

JSFS Ranger District:

Section 12 - Other Information

Right of Way needed? NO ROW Type(s): Use APD as ROW?

ROW Applications

Well Name: MORAB 29-20 FED COM

Well Number: 3H

SUPO Additional Information: CTB Survey Electric Survey Flowline Survey

Use a previously conducted onsite? NO

Previous Onsite information:

Other SUPO Attachment

Morab 29-20 Fed Com 3H_CTB_10-31-2016.pdf Morab 29-20 Fed Com 3H_Electric_10-31-2016.PDF Morab 29-20 Fed Com 3H_Flowline_10-31-2016.pdf

PWD

Section 1 - General

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

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

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:

PWD disturbance (acres):

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Lined pit precipitated solids disposal schedule attachment:

Well Name: MORAB 29-20 FED COM

Well Number: 3H

Lined pit reclamation description: Lined pit reclamation attachment: Leak detection system description: Leak detection system attachment: Lined pit Monitor description: Lined pit Monitor attachment: Lined pit: do you have a reclamation bond for the pit? Is the reclamation bond a rider under the BLM bond? Lined pit bond number: Lined pit bond amount: Additional bond information attachment: Section 3 - Unlined Pits Would you like to utilize Unlined Pit PWD options? NO Produced Water Disposal (PWD) Location: **PWD surface owner:** Unlined pit PWD on or off channel: Unlined pit PWD discharge volume (bbl/day): Unlined pit specifications: Precipitated solids disposal: Decribe precipitated solids disposal: Precipitated solids disposal permit: 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?

PWD disturbance (acres):

Well Name: MORAB 29-20 FED COM

Well Number: 3H

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:PWD disturbance (acres):Injection PWD discharge volume (bbl/day):Injection well mineral owner:Injection well mineral owner:Injection well mineral owner:Injection well type:Injection well number: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: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:

Well Name: MORAB 29-20 FED COM

Well Number: 3H

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):

Bond Info

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:

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.

Operator Name. DEVON EN	NERGY PRODUCTION C	OMPANY LP
Well Name: MORAB 29-20 F	ED COM	Well Number: 3H
AME: Linda Good		Signed on: 11/15/2016
Title: Regulatory Compliance	Professional	
Street Address: 333 West St	heridan Avenue	
City: Oklahoma City	State: OK	Zip: 73102
Phone: (405)552-6558		
Email address: Linda.Good@	Ddvn.com	
Field Representa Representative Name: Ra		
	y Vaz	
Representative Name: Ra	y Vaz	Zip: 88210
Representative Name: Ra Street Address: 6488 Seve	y Vaz en Rivers Hwy	Zip: 88210
Representative Name: Ra Street Address: 6488 Seve City: Artesia	y Vaz en Rivers Hwy State: NM	Zip: 88210
Representative Name: Ra Street Address: 6488 Seve City: Artesia Phone: (575)748-1871	y Vaz en Rivers Hwy State: NM	Zip: 88210 Payment Info
Representative Name: Ra Street Address: 6488 Seve City: Artesia Phone: (575)748-1871	y Vaz en Rivers Hwy State: NM	

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