Form 3160-3 (June 2015)

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FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

UNITED STATES		ECELLE	Ziipii vo. vu	11441) 51, 2010	
DEPARTMENT OF THE INTE	ERIOR	RECEIVE	5. Lease Serial No.		
BUREAU OF LAND MANAGE	EMENT				
APPLICATION FOR PERMIT TO DRIL	L OR REENTE	R	6. If Indian, Allotee	or Tribe Name	
1a. Type of work: DRILL REEN'	TER		7. If Unit or CA Agr	eement, Name ar	nd No.
1b. Type of Well: Oil Well Gas Well Other					
1c. Type of Completion: Hydraulic Fracturing Single	Zone Multiple	Zone	8. Lease Name and	Well No.	
11. Type of Completion. Trydraulie Tracturing Shigh	Zoneividitiple	Zone		[329772]	
					•
2. Name of Operator			9. API Well No.		
[6137]			30)-025-4795	7
	Phone No. (include	area code)	10. Field and Pool, o	or Exploratory	<u>[9677</u> 6
					L
4. Location of Well (Report location clearly and in accordance with a	ny State requiremen	ts.*)	11. Sec., T. R. M. or	Blk. and Survey	or Area
At surface					
At proposed prod. zone					
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. Sta	ıte
	No of acres in lease	17. Spac	ng Unit dedicated to the	nis well	
location to nearest property or lease line, ft.					
(Also to nearest drig. unit line, if any)					
	Proposed Depth	20. BLM	/BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft.					
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22.	Approximate date w	ork will start*	23. Estimated durati	on	
21. 20. 44.010 (0.10.1. 14.010.12.) 11., 02., 00.)	ripprominate date ii	ori will start	23. Estimated durant	011	
24	4. Attachments				
The following, completed in accordance with the requirements of Ons	hore Oil and Gas Or	der No. 1, and the	Hydraulic Eracturing r	ula par 43 CED 3	162 3 3
(as applicable)	note on and das of	der No. 1, and the	Tydraune Fracturing It	aic pei 43 CFR 3	102.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		o cover the operation above).	ns unless covered by an	existing bond on	ı file (see
2. A Diffing Plan. 3. A Surface Use Plan (if the location is on National Forest System La		or certification.			
SUPO must be filed with the appropriate Forest Service Office).	6. Such otl		rmation and/or plans as	may be requested	by the
· · · · · · · · · · · · · · · · · · ·	BLM.				
25. Signature	Name (Printed/Ty)	rped)		Date	
Title					
Title					
Approved by (Signature)	Name (Printed/Ty	rped)		Date	
	(2 / 1000000 1 / 1)	r - 7			
Title	Office			1	
Application approval does not warrant or certify that the applicant hol	ds legal or equitable	title to those rights	in the subject lease wh	hich would entitle	e the
applicant to conduct operations thereon. Conditions of approval, if any, are attached.					
conditions of approval, it airs, 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

Approval Date: 10/21/2020

GCP Rec 10/29/2020

APPROVED WITH CONDITIONS

of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

10/31/2020

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*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

 $0. \ SHL: \ NWNE \ / \ 225 \ FNL \ / \ 1754 \ FEL \ / \ TWSP: \ 26S \ / \ RANGE: \ 34E \ / \ SECTION: \ 27 \ / \ LAT: \ 32.021056 \ / \ LONG: \ -103.454909 \ (\ TVD: \ 0 \ feet \)$ PPP: \ NENE \ / \ 100 \ FNL \ / \ 1305 \ FEL \ / \ TWSP: \ 26S \ / \ RANGE: \ 34E \ / \ SECTION: \ 27 \ / \ LAT: \ 32.021396 \ / \ LONG: \ -103.45346 \ (\ TVD: \ 12461 \ feet \ MD: \ 12481 \ feet \) BHL: \ SENE \ / \ 20 \ FSL \ / \ 1305 \ FEL \ / \ TWSP: \ 26S \ / \ RANGE: \ 34E \ / \ SECTION: \ 34 \ / \ LAT: \ 32.000335 \ / \ LONG: \ -103.45346 \ (\ TVD: \ 12800 \ feet \ MD: \ 20277 \ feet \)

BLM Point of Contact

Name: Candy Vigil

Title: LIE

Phone: (575) 234-5982 Email: cvigil@blm.gov



(Form 3160-3, page 3)

Approval Date: 10/21/2020

Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.



(Form 3160-3, page 4)



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

Drilling Plan Data Report

10/27/2020

APD ID: 10400047160 **Submission Date:** 03/19/2020

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: BOLL WEEVIL 27-34 FED COM Well Number: 10H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
533218		3267	0	0	OTHER : SURFACE	NONE	N
533219	RUSTLER	2404	863	863	SANDSTONE	NONE	N
533220	SALADO	2066	1201	1202	SALT	NONE	N
533221	BASE OF SALT	-1804	5071	5072	ANHYDRITE	NATURAL GAS, OIL	N
533222	BELL CANYON	-2066	5333	5334	SANDSTONE	NATURAL GAS, OIL	N
533223	CHERRY CANYON	-3109	6376	6379	SANDSTONE	NATURAL GAS, OIL	N
533224	BRUSHY CANYON	-4811	8078	8081	SANDSTONE	NATURAL GAS, OIL	N
533225	BONE SPRING	-6265	9532	9535	SANDSTONE	NATURAL GAS, OIL	N
533227	BONE SPRING 2ND	-7535	10802	10805	SANDSTONE	NATURAL GAS, OIL	N
533228	BONE SPRING 3RD	-8346	11613	11617	SANDSTONE	NATURAL GAS, OIL	N
533229	WOLFCAMP	-9357	12624	12630	SHALE	NATURAL GAS, OIL	Y
533230	PENN	-12018	15285	15290	SHALE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M Rating Depth: 12800

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below intermediate casing, a BOP/BOPE system with a minimum rating of 10M 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. BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with a minimum rating of 5M 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.

Boll Weevil 27-34 Fed Com 10H

1. Geologic Formations

TVD of target	12800	Pilot hole depth	N/A
MD at TD:	20277	Deepest expected fresh water	

Basin

Dasin	1	YYY / /3.51	
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	860		
Salt	1200		
Base of Salt	5070		
Delaware	5330		
Cherry Canyon	6375		
Brushy Canyon	7980		
Bone Spring 1st	10590		
Bone Spring 2nd	11140		
Bone Spring 3rd	12200		
Wolfcamp	12620		
_			

^{*}H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Casing Interval		Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Grade	Colli	Collapse	Burst	Tension
17 1/2	0	885 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	12200 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM N	Ainimum Saf	fety Factor	1.125	1	1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Casing Program (Alternative Design)

Hole Size	Casing Interval		Cog Size Wt		Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Colli	Collapse	Burst	Tension		
17 1/2	0	885 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6		
9 7/8	0	12200 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6		
7 7/8	0	TD	5 1/2	17.0	P110	ВТС	1.125	1.25	1.6		
				BLM N	Ainimum Sat	fety Factor	1.125	1	1.6 Dry 1.8 Wet		

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- A variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing.
- Int casing shoe will be selected based on drilling data/gamma, setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.
- •Variance requested to drill 10.625" hole instead of 9.875" for intermediate 1, the 8.625" connection will change from TLW to BTC.
- A variance is requested to set intermediate casing in the curve if hole conditions dictate that a higher shoe strength is required.

Boll Weevil 27-34 Fed Com 10H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specficition sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading	Y
assumptions, casing design criteria).	
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating	Y
of the casing?	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	11
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous	
casing?	
I III . I' D 111 D 100D40	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	- 1
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	679	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	777	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	961	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	477	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	777	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	62	10240	9.0	3.3	Lead: Class H /C + additives
Floduction	513	12240	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

3. Cementing Program (Alternative Design)

Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	679	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	496	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	564	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w DV @ ~4500	319	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	496	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Int 1 (10.625" Hole Size)	739	Surf	9	3.27	Lead: Class C Cement + additives
int i (10.023 Hole Size)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	117	10240	9.0	3.3	Lead: Class H /C + additives
Production	1064	12240	13.2	1.4	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		✓	Tested to:
			Annular		X	50% of rated working pressure
Int 1	13-58"	5M		d Ram	X	
IIIt I	13 30	JIVI		e Ram		5M
			Doub	le Ram	X	3111
			Other*			
			Annular (5M)		X	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		X	
Troduction		1011	Pipe Ram			10M
			Double Ram		X	10101
			Other*			
			Annul	ar (5M)		
			Blin	d Ram		
			Pipe Ram			
			Double Ram			
			Other*			
N A variance is requested for	the use of a	diverter on	the surface	casing. See a	attached for so	chematic.
Y A variance is requested to r	run a 5 M anı	nular on a	10M system	1	•	

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)		
Surface	FW Gel	8.5-9		
Intermediate	DBE / Cut Brine	10-10.5		
Production	OBM	10-10.5		

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

6. Logging and Testing Procedures

Logging, (Logging, Coring and Testing								
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the								
X	Completion Report and shumitted to the BLM.								
	No logs are planned based on well control or offset log information.								
	Drill stem test? If yes, explain.								
	Coring? If yes, explain.								

Additional	logs planned	Interval			
	Resistivity	Int. shoe to KOP			
	Density	Int. shoe to KOP			
X	CBL	Production casing			
X	Mud log	Intermediate shoe to TD			
	PEX				

7. Drilling Conditions

Condition	Specfiy what type and where?					
BH pressure at deepest TVD	6989					
Abnormal temperature	No					

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- ³ The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments	1
X	Directional Plan
	Other, describe

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 27-T26S-R34E Boll Weevil 27-34 Fed Com 10H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

20 August, 2019

EDM r5000.141_Prod US Database: Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Well:

Sec 27-T26S-R34E

Wellbore:

Boll Weevil 27-34 Fed Com 10H

Wellbore #1 Permit Plan 1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Minimum Curvature

Project Lea County (NAD83 New Mexico East)

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Sec 27-T26S-R34E Site

372,709.44 usft Northing: Site Position: Latitude: 32.021695 810,054.86 usft -103.466280 Мар Easting: From: Longitude: 0.46 Position Uncertainty: Slot Radius: 13-3/16 " 0.00 ft **Grid Convergence:**

Boll Weevil 27-34 Fed Com 10H Well

Well Position +N/-S 0.00 ft Northing: 372,505.61 usft Latitude: 32.021056 +E/-W 0.00 ft Easting: 813,581.17 usft Longitude: -103.454909

0.50 ft **Position Uncertainty** Wellhead Elevation: **Ground Level:** 3,230.30 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 59.87 47,607.83091833 IGRF2015 8/20/2019 6.65

Permit Plan 1 Design Audit Notes: Version: Phase: **PROTOTYPE** Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 176.13

8/20/2019 **Plan Survey Tool Program** Date

> Depth From Depth To

(ft) (ft) Survey (Wellbore)

Tool Name Remarks

0.00 20,277.10 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

Plan Sections Measured Vertical Dogleg Ruild Turn Inclination +N/-S Depth Azimuth Depth +E/-W Rate Rate Rate TFO (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3,000.00 0.00 0.00 3,000.00 0.00 0.00 0.00 0.00 0.00 0.00 3.320.35 3.20 68.71 3.320.18 3.25 8.34 1.00 1.00 0.00 68.71 443.44 11,676.77 3.20 68.71 11,663.55 172.83 0.00 0.00 0.00 0.00 175.00 11,890.34 0.00 0.00 11,877.00 449.00 1.50 -1.50 0.00 180.00 12,240.38 0.00 0.00 12,227.04 175.00 449.00 0.00 0.00 0.00 0.00 13,140.38 90.00 179.55 12,800.00 -397.94 453.53 10.00 10.00 0.00 179.55 PBHL - Boll Weevil 27 -7,534.44 20,277.10 90.00 179.55 12,800.00 509.90 0.00 0.00 0.00 0.00 PBHL - Boll Weevil 27

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 27-T26S-R34E

Well: Boll Weevil 27-34 Fed Com 10H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
100.00	0.00	0.00	100.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
200.00	0.00	0.00	200.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
300.00	0.00	0.00	300.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
400.00	0.00	0.00	400.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
500.00	0.00	0.00	500.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
600.00	0.00	0.00	600.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
700.00	0.00	0.00	700.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
800.00	0.00	0.00	800.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
900.00	0.00	0.00	900.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,000.00	0.00	0.00	1,000.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,100.00	0.00	0.00	1,100.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,200.00	0.00	0.00	1,200.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,300.00	0.00	0.00	1,300.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,400.00	0.00	0.00	1,400.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,500.00	0.00	0.00	1,500.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,600.00	0.00	0.00	1,600.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,700.00	0.00	0.00	1,700.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,800.00	0.00	0.00	1,800.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
1,900.00	0.00	0.00	1,900.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,000.00	0.00	0.00	2,000.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,100.00	0.00	0.00	2,100.00	0.00	0.00	372,505.61	813,581.17	32.021056 32.021056	-103.454909
2,200.00	0.00	0.00 0.00	2,200.00	0.00 0.00	0.00 0.00	372,505.61	813,581.17	32.021056	-103.454909 -103.454909
2,300.00 2,400.00	0.00	0.00	2,300.00 2,400.00	0.00	0.00	372,505.61 372,505.61	813,581.17 813,581.17	32.021056	-103.454909
2,500.00	0.00	0.00	2,500.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,600.00	0.00	0.00	2,600.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,700.00	0.00	0.00	2,700.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,800.00	0.00	0.00	2,800.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
2,900.00	0.00	0.00	2,900.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
3,000.00	0.00	0.00	3,000.00	0.00	0.00	372,505.61	813,581.17	32.021056	-103.454909
3,100.00	1.00	68.71	3,099.99	0.32	0.81	372,505.93	813,581.98	32.021057	-103.454906
3,200.00	2.00	68.71	3,199.96	1.27	3.25	372,506.88	813,584.42	32.021059	-103.454898
3,300.00	3.00	68.71	3,299.86	2.85	7.32	372,508.46	813,588.48	32.021064	-103.454885
3,320.35	3.20	68.71	3,320.18	3.25	8.34	372,508.86	813,589.51	32.021065	-103.454882
3,400.00	3.20	68.71	3,399.71	4.87	12.49	372,510.48	813,593.66	32.021069	-103.454868
3,500.00	3.20	68.71	3,499.55	6.90	17.70	372,512.51	813,598.86	32.021075	-103.454851
3,600.00	3.20	68.71	3,599.40	8.93	22.90	372,514.53	813,604.07	32.021080	-103.454835
3,700.00	3.20	68.71	3,699.24	10.96	28.11	372,516.56	813,609.28	32.021085	-103.454818
3,800.00	3.20	68.71	3,799.08	12.99	33.32	372,518.59	813,614.48	32.021091	-103.454801
3,900.00	3.20	68.71	3,898.93	15.01	38.52	372,520.62	813,619.69	32.021096	-103.454784
4,000.00	3.20	68.71	3,998.77	17.04	43.73	372,522.65	813,624.90	32.021102	-103.454767
4,100.00	3.20	68.71	4,098.61	19.07	48.94	372,524.68	813,630.10	32.021107	-103.454750
4,200.00	3.20	68.71	4,198.46	21.10	54.14	372,526.71	813,635.31	32.021113	-103.454734
4,300.00	3.20	68.71	4,298.30	23.13	59.35	372,528.74	813,640.52	32.021118	-103.454717
4,400.00	3.20	68.71	4,398.15	25.16	64.56	372,530.77	813,645.72	32.021124	-103.454700
4,500.00	3.20	68.71	4,497.99	27.19	69.76	372,532.80	813,650.93	32.021129	-103.454683
4,600.00	3.20	68.71	4,597.83	29.22	74.97	372,534.83	813,656.14	32.021135	-103.454666
4,700.00	3.20	68.71	4,697.68	31.25	80.18	372,536.86	813,661.34	32.021140	-103.454649
4,800.00	3.20	68.71	4,797.52	33.28	85.38	372,538.89	813,666.55	32.021146	-103.454632
4,900.00	3.20	68.71	4,897.36	35.31	90.59	372,540.92	813,671.76	32.021151	-103.454616
5,000.00	3.20	68.71	4,997.21	37.34	95.80	372,542.95	813,676.96	32.021156	-103.454599
5,100.00	3.20	68.71	5,097.05	39.37	101.00	372,544.97	813,682.17	32.021162	-103.454582
5,200.00	3.20	68.71	5,196.90	41.40	106.21	372,547.00	813,687.38	32.021167	-103.454565
5,300.00	3.20	68.71	5,296.74	43.43	111.42	372,549.03	813,692.59	32.021173	-103.454548

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 27-T26S-R34E

Well: Boll Weevil 27-34 Fed Com 10H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.00	3.20	68.71	5,396.58	45.45	116.62	372,551.06	813,697.79	32.021178	-103.454531
5,500.00	3.20	68.71	5,496.43	47.48	121.83	372,553.09	813,703.00	32.021184	-103.454514
5,600.00		68.71	5,596.27	49.51	127.04	372,555.12	813,708.21	32.021189	-103.454498
5,700.00		68.71	5,696.11	51.54	132.24	372,557.15	813,713.41	32.021195	-103.454481
5,800.00		68.71	5,795.96	53.57	137.45	372,559.18	813,718.62	32.021200	-103.454464
5,900.00		68.71	5,895.80	55.60	142.66	372,561.21	813,723.83	32.021206	-103.454447
6,000.00		68.71	5,995.65	57.63	147.86	372,563.24	813,729.03	32.021211	-103.454430
6,100.00		68.71	6,095.49	59.66	153.07	372,565.27	813,734.24	32.021217	-103.454413
6,200.00		68.71	6,195.33	61.69	158.28	372,567.30	813,739.45	32.021222	-103.454397
6,300.00		68.71	6,295.18	63.72	163.48	372,569.33	813,744.65	32.021227	-103.454380
6,400.00		68.71	6,395.02	65.75	168.69	372,571.36	813,749.86	32.021233	-103.454363
6,500.00		68.71	6,494.86	67.78	173.90	372,573.39	813,755.07	32.021238	-103.454346
6,600.00 6,700.00		68.71 68.71	6,594.71 6,694.55	69.81 71.84	179.10 184.31	372,575.42 372,577.44	813,760.27 813,765.48	32.021244 32.021249	-103.454329 -103.454312
6,800.00		68.71	6,794.40	73.87	189.52	372,579.47	813,770.69	32.021249	-103.454295
6,900.00	3.20	68.71	6,894.24	75.90	194.72	372,581.50	813,775.89	32.021260	-103.454279
7,000.00		68.71	6,994.08	77.92	199.93	372,583.53	813,781.10	32.021266	-103.454262
7,100.00		68.71	7,093.93	79.95	205.14	372,585.56	813,786.31	32.021271	-103.454245
7,200.00		68.71	7,193.77	81.98	210.35	372,587.59	813,791.51	32.021277	-103.454228
7,300.00		68.71	7,293.61	84.01	215.55	372,589.62	813,796.72	32.021282	-103.454211
7,400.00		68.71	7,393.46	86.04	220.76	372,591.65	813,801.93	32.021288	-103.454194
7,500.00		68.71	7,493.30	88.07	225.97	372,593.68	813,807.13	32.021293	-103.454177
7,600.00		68.71	7,593.15	90.10	231.17	372,595.71	813,812.34	32.021298	-103.454161
7,700.00		68.71	7,692.99	92.13	236.38	372,597.74	813,817.55	32.021304	-103.454144
7,800.00	3.20	68.71	7,792.83	94.16	241.59	372,599.77	813,822.75	32.021309	-103.454127
7,900.00	3.20	68.71	7,892.68	96.19	246.79	372,601.80	813,827.96	32.021315	-103.454110
8,000.00	3.20	68.71	7,992.52	98.22	252.00	372,603.83	813,833.17	32.021320	-103.454093
8,100.00		68.71	8,092.36	100.25	257.21	372,605.86	813,838.37	32.021326	-103.454076
8,200.00		68.71	8,192.21	102.28	262.41	372,607.88	813,843.58	32.021331	-103.454059
8,300.00		68.71	8,292.05	104.31	267.62	372,609.91	813,848.79	32.021337	-103.454043
8,400.00		68.71	8,391.90	106.34	272.83	372,611.94	813,853.99	32.021342	-103.454026
8,500.00	3.20	68.71	8,491.74	108.36	278.03	372,613.97	813,859.20	32.021348	-103.454009
8,600.00		68.71	8,591.58	110.39	283.24	372,616.00	813,864.41	32.021353	-103.453992
8,700.00		68.71	8,691.43	112.42	288.45	372,618.03	813,869.61	32.021359	-103.453975
8,800.00		68.71	8,791.27	114.45	293.65	372,620.06	813,874.82	32.021364	-103.453958
8,900.00		68.71	8,891.11	116.48	298.86	372,622.09	813,880.03	32.021369	-103.453942
9,000.00	3.20	68.71	8,990.96	118.51	304.07	372,624.12	813,885.23	32.021375	-103.453925 -103.453908
9,100.00		68.71 68.71	9,090.80	120.54 122.57	309.27 314.48	372,626.15	813,890.44	32.021380 32.021386	-103.453891
9,200.00 9,300.00	3.20 3.20	68.71	9,190.65 9,290.49	122.57	314.46	372,628.18 372,630.21	813,895.65 813,900.85	32.021391	-103.453874
9,400.00		68.71	9,390.33	124.60	324.89	372,632.24	813,906.06	32.021397	-103.453857
9,500.00		68.71	9,490.18	128.66	330.10	372,634.27	813,911.27	32.021402	-103.453840
9,600.00		68.71	9,590.02	130.69	335.31	372,636.30	813,916.47	32.021408	-103.453824
9,700.00		68.71	9,689.86	132.72	340.51	372,638.32	813,921.68	32.021413	-103.453807
9,800.00		68.71	9,789.71	134.75	345.72	372,640.35	813,926.89	32.021419	-103.453790
9,900.00		68.71	9,889.55	136.78	350.93	372,642.38	813,932.09	32.021424	-103.453773
10,000.00		68.71	9,989.40	138.80	356.13	372,644.41	813,937.30	32.021430	-103.453756
10,100.00		68.71	10,089.24	140.83	361.34	372,646.44	813,942.51	32.021435	-103.453739
10,200.00		68.71	10,189.08	142.86	366.55	372,648.47	813,947.71	32.021440	-103.453722
10,300.00		68.71	10,288.93	144.89	371.75	372,650.50	813,952.92	32.021446	-103.453706
10,400.00		68.71	10,388.77	146.92	376.96	372,652.53	813,958.13	32.021451	-103.453689
10,500.00	3.20	68.71	10,488.61	148.95	382.17	372,654.56	813,963.33	32.021457	-103.453672
10,600.00		68.71	10,588.46	150.98	387.37	372,656.59	813,968.54	32.021462	-103.453655
10,700.00		68.71	10,688.30	153.01	392.58	372,658.62	813,973.75	32.021468	-103.453638
10,800.00	3.20	68.71	10,788.15	155.04	397.79	372,660.65	813,978.95	32.021473	-103.453621

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 27-T26S-R34E

Well: Boll Weevil 27-34 Fed Com 10H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,900.00	3.20	68.71	10,887.99	157.07	402.99	372,662.68	813,984.16	32.021479	-103.453604
11,000.00	3.20	68.71	10,987.83	159.10	408.20	372,664.71	813,989.37	32.021484	-103.453588
11,100.00	3.20	68.71	11,087.68	161.13	413.41	372,666.74	813,994.58	32.021490	-103.453571
11,200.00	3.20	68.71	11,187.52	163.16	418.61	372,668.77	813,999.78	32.021495	-103.453554
11,300.00	3.20	68.71	11,287.36	165.19	423.82	372,670.79	814,004.99	32.021501	-103.453537
11,400.00	3.20	68.71	11,387.21	167.22	429.03	372,672.82	814,010.20	32.021506	-103.453520
11,500.00	3.20	68.71	11,487.05	169.25	434.23	372,674.85	814,015.40	32.021511	-103.453503
11,600.00	3.20 3.20	68.71	11,586.90	171.27 172.83	439.44 443.44	372,676.88	814,020.61	32.021517	-103.453487
11,676.77 11,700.00	2.86	68.71 68.71	11,663.55 11,686.74	172.03	443.44 444.58	372,678.44 372,678.89	814,024.61 814,025.75	32.021521 32.021522	-103.453474 -103.453470
11,800.00	1.36	68.71	11,786.67	173.26	448.00	372,680.22	814,029.17	32.021526	-103.453470
11,890.34	0.00	0.00	11,877.00	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
11,900.00	0.00	0.00	11,886.66	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
12,000.00	0.00	0.00	11,986.66	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
12,100.00	0.00	0.00	12,086.66	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
12,200.00	0.00	0.00	12,186.66	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
12,240.38	0.00	0.00	12,227.04	175.00	449.00	372,680.61	814,030.17	32.021527	-103.453456
KOP @ 1	2240' MD, 50'	FNL, 1305' F	EL						
12,300.00	5.96	179.55	12,286.56	171.90	449.02	372,677.51	814,030.19	32.021518	-103.453456
12,400.00	15.96	179.55	12,384.61	152.91	449.17	372,658.52	814,030.34	32.021466	-103.453456
12,481.52	24.11	179.55	12,461.13	125.00	449.39	372,630.61	814,030.56	32.021389	-103.453456
FTP @ 1:	2482' MD, 100	' FNL, 1305'	FEL						
12,500.00	25.96	179.55	12,477.87	117.18	449.46	372,622.79	814,030.62	32.021368	-103.453456
12,600.00	35.96	179.55	12,563.51	65.80	449.86	372,571.41	814,031.03	32.021227	-103.453456
12,700.00	45.96	179.55	12,638.93	0.33	450.38	372,505.94	814,031.55	32.021047	-103.453456
12,800.00	55.96	179.55	12,701.83	-77.24	450.99	372,428.36	814,032.16	32.020834	-103.453456
12,900.00	65.96	179.55	12,750.31	-164.56	451.68	372,341.05	814,032.85	32.020594	-103.453456
13,000.00	75.96	179.55	12,782.89	-258.97	452.43	372,246.64	814,033.60	32.020334	-103.453456
13,100.00	85.96	179.55	12,798.58	-357.60	453.21	372,148.01	814,034.37	32.020063	-103.453456
13,140.38	90.00	179.55	12,800.00	-397.94	453.53	372,107.67	814,034.69	32.019952	-103.453456
13,200.00 13,300.00	90.00 90.00	179.55 179.55	12,800.00 12,800.00	-457.56 -557.56	454.00 454.79	372,048.05 371,948.05	814,035.16 814,035.95	32.019788 32.019513	-103.453456 -103.453456
13,400.00	90.00	179.55	12,800.00	-657.55	454.79 455.58	371,848.05	814,036.74	32.019313	-103.453456
13,500.00	90.00	179.55	12,800.00	-757.55	456.37	371,748.06	814,037.53	32.018963	-103.453456
13,600.00	90.00	179.55	12,800.00	-857.55	457.16	371,648.06	814,038.32	32.018689	-103.453456
13,700.00	90.00	179.55	12,800.00	-957.55	457.95	371,548.06	814,039.11	32.018414	-103.453456
13,800.00	90.00	179.55	12,800.00	-1,057.54	458.74	371,448.07	814,039.90	32.018139	-103.453457
13,900.00	90.00	179.55	12,800.00	-1,157.54	459.53	371,348.07	814,040.69	32.017864	-103.453457
14,000.00	90.00	179.55	12,800.00	-1,257.54	460.32	371,248.07	814,041.48	32.017589	-103.453457
14,100.00	90.00	179.55	12,800.00	-1,357.53	461.11	371,148.08	814,042.27	32.017314	-103.453457
14,200.00	90.00	179.55	12,800.00	-1,457.53	461.90	371,048.08	814,043.06	32.017039	-103.453457
14,300.00	90.00	179.55	12,800.00	-1,557.53	462.69	370,948.08	814,043.85	32.016764	-103.453457
14,400.00	90.00	179.55	12,800.00	-1,657.52	463.48	370,848.09	814,044.64	32.016490	-103.453457
14,500.00	90.00	179.55	12,800.00	-1,757.52	464.27	370,748.09	814,045.43	32.016215	-103.453457
14,600.00	90.00	179.55	12,800.00	-1,857.52	465.06	370,648.09	814,046.22	32.015940	-103.453457
14,700.00	90.00	179.55	12,800.00	-1,957.51	465.85	370,548.10	814,047.01	32.015665	-103.453457
14,800.00	90.00	179.55	12,800.00	-2,057.51	466.64	370,448.10	814,047.80	32.015390	-103.453457
14,900.00	90.00	179.55	12,800.00	-2,157.51	467.43	370,348.10	814,048.59	32.015115	-103.453457
15,000.00	90.00	179.55	12,800.00	-2,257.51	468.22	370,248.11	814,049.38	32.014840	-103.453457
15,100.00	90.00	179.55	12,800.00	-2,357.50	469.01	370,148.11	814,050.17	32.014565	-103.453458
15,200.00	90.00	179.55 170.55	12,800.00	-2,457.50 -2,557.50	469.80 470.59	370,048.11 369,948.12	814,050.96 814,051.75	32.014291 32.014016	-103.453458
15,300.00 15,400.00	90.00 90.00	179.55 179.55	12,800.00 12,800.00	-2,557.50 -2,657.49	470.59 471.38	369,848.12 369,848.12	814,051.75 814,052.54	32.013741	-103.453458 -103.453458
15,500.00	90.00	179.55	12,800.00	-2,057.49 -2,757.49	471.36 472.17	369,748.12	814,053.33	32.013446	-103.453458
13,300.00	90.00	119.00	12,000.00	-2,101.43	714.11	505,740.1Z	017,000.00	JZ.U 1J4UU	-100.400400

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 27-T26S-R34E

Well: Boll Weevil 27-34 Fed Com 10H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Planned Survey									
Measured			Vertical			Мар	Мар		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
15,600.00	90.00	179.55	12,800.00	-2,857.49	472.96	369,648.13	814,054.12	32.013191	-103.453458
15,700.00	90.00	179.55	12,800.00	-2,957.48	473.75	369,548.13	814,054.91	32.012916	-103.453458
15,800.00	90.00	179.55	12,800.00	-3,057.48	474.54	369,448.13	814,055.70	32.012641	-103.453458
15,900.00	90.00	179.55	12,800.00	-3,157.48	475.33	369,348.14	814,056.49	32.012366	-103.453458
16,000.00	90.00	179.55	12,800.00	-3,257.47	476.11	369,248.14	814,057.28	32.012092	-103.453458
16,100.00	90.00	179.55	12,800.00	-3,357.47	476.90	369,148.14	814,058.07	32.011817	-103.453458
16,200.00	90.00	179.55	12,800.00	-3,457.47	477.69	369,048.15	814,058.86	32.011542	-103.453458
16,300.00	90.00	179.55	12,800.00	-3,557.46	478.48	368,948.15	814,059.65	32.011267	-103.453458
16,400.00	90.00	179.55	12,800.00	-3,657.46	479.27	368,848.15	814,060.44	32.010992	-103.453459
16,500.00	90.00	179.55	12,800.00	-3,757.46	480.06	368,748.16	814,061.23	32.010717	-103.453459
16,600.00	90.00	179.55	12,800.00	-3,857.46	480.85	368,648.16	814,062.02	32.010442	-103.453459
16,700.00	90.00	179.55	12,800.00	-3,957.45	481.64	368,548.16	814,062.81	32.010167	-103.453459
16,800.00	90.00	179.55	12,800.00	-4,057.45	482.43	368,448.17	814,063.60	32.009893	-103.453459
16,900.00	90.00	179.55	12,800.00	-4,157.45	483.22	368,348.17	814,064.39	32.009618	-103.453459
17,000.00	90.00	179.55	12,800.00	-4,257.44	484.01	368,248.17	814,065.18	32.009343	-103.453459
17,100.00	90.00	179.55	12,800.00	-4,357.44	484.80	368,148.18	814,065.97	32.009068	-103.453459
17,200.00	90.00	179.55	12,800.00	-4,457.44	485.59	368,048.18	814,066.76	32.008793	-103.453459
17,300.00	90.00	179.55	12,800.00	-4,557.43	486.38	367,948.18	814,067.55	32.008518	-103.453459
17,400.00	90.00	179.55	12,800.00	-4,657.43	487.17	367,848.19	814,068.34	32.008243	-103.453459
17,500.00	90.00	179.55	12,800.00	-4,757.43	487.96	367,748.19	814,069.13	32.007968	-103.453459
17,600.00	90.00	179.55	12,800.00	-4,857.42	488.75	367,648.19	814,069.92	32.007694	-103.453460
17,700.00	90.00	179.55	12,800.00	-4,957.42	489.54	367,548.20	814,070.71	32.007419	-103.453460
17,798.00	90.00	179.55	12,800.00	-5,055.42	490.32	367,450.20	814,071.49	32.007149	-103.453460
Cross se	ction @ 1779	8' MD, 0' FNL	., 1305' FEL						
17,800.00	90.00	179.55	12,800.00	-5,057.42	490.33	367,448.20	814,071.50	32.007144	-103.453460
17,900.00	90.00	179.55	12,800.00	-5,157.41	491.12	367,348.20	814,072.29	32.006869	-103.453460
18,000.00	90.00	179.55	12,800.00	-5,257.41	491.91	367,248.21	814,073.08	32.006594	-103.453460
18,100.00	90.00	179.55	12,800.00	-5,357.41	492.70	367,148.21	814,073.87	32.006319	-103.453460
18,200.00	90.00	179.55	12,800.00	-5,457.41	493.49	367,048.21	814,074.66	32.006044	-103.453460
18,300.00	90.00	179.55	12,800.00	-5,557.40	494.28	366,948.22	814,075.45	32.005769	-103.453460
18,400.00	90.00	179.55	12,800.00	-5,657.40	495.07	366,848.22	814,076.24	32.005495	-103.453460
18,500.00	90.00	179.55	12,800.00	-5,757.40	495.86	366,748.22	814,077.03	32.005220	-103.453460
18,600.00	90.00	179.55	12,800.00	-5,857.39	496.65	366,648.23	814,077.82	32.004945	-103.453460
18,700.00	90.00	179.55	12,800.00	-5,957.39	497.44	366,548.23	814,078.61	32.004670	-103.453460
18,800.00	90.00	179.55	12,800.00	-6,057.39	498.23	366,448.23	814,079.40	32.004395	-103.453460
18,900.00	90.00	179.55	12,800.00	-6,157.38	499.02	366,348.24	814,080.19	32.004120	-103.453461
19,000.00	90.00	179.55	12,800.00	-6,257.38	499.81	366,248.24	814,080.98	32.003845	-103.453461
19,100.00	90.00	179.55	12,800.00	-6,357.38	500.60	366,148.24	814,081.77	32.003570	-103.453461
19,200.00	90.00	179.55	12,800.00	-6,457.37	501.39	366,048.25	814,082.56	32.003296	-103.453461
19,300.00	90.00	179.55	12,800.00	-6,557.37	502.18	365,948.25	814,083.35	32.003021	-103.453461
19,400.00	90.00	179.55	12,800.00	-6,657.37	502.97	365,848.25	814,084.14	32.002746	-103.453461
19,500.00	90.00	179.55	12,800.00	-6,757.36	503.76	365,748.26	814,084.93	32.002471	-103.453461
19,600.00	90.00	179.55	12,800.00	-6,857.36	504.55	365,648.26	814,085.72	32.002196	-103.453461
19,700.00	90.00	179.55	12,800.00	-6,957.36	505.34	365,548.26	814,086.51	32.001921	-103.453461
19,800.00	90.00	179.55	12,800.00	-7,057.36	506.13	365,448.27	814,087.30	32.001646	-103.453461
19,900.00	90.00	179.55	12,800.00	-7,157.35	506.92	365,348.27	814,088.09	32.001371	-103.453461
20,000.00	90.00	179.55	12,800.00	-7,257.35	507.71	365,248.27	814,088.88	32.001097	-103.453461
20,100.00	90.00	179.55	12,800.00	-7,357.35	508.50	365,148.28	814,089.67	32.000822	-103.453461
20,197.08	90.00	179.55	12,800.00	-7,454.42	509.27	365,051.20	814,090.44	32.000555	-103.453462
	0197' MD, 100	,		7.457.04	500.00	205 040 00	044.000.40	20 2025 47	400 450 400
20,200.00	90.00	179.55	12,800.00	-7,457.34	509.29	365,048.28	814,090.46	32.000547	-103.453462
20,277.08	90.00	179.55	12,800.00	-7,534.42	509.90	364,971.20	814,091.07	32.000335	-103.453462
	0' FSL, 1305' I		12 000 00	7 524 44	500.00	264 074 40	914 004 07	22 000225	102 452400
20,277.10	90.00	179.55	12,800.00	-7,534.44	509.90	364,971.19	814,091.07	32.000335	-103.453462

Database: EDM r5000.141_Prod US Company: WCDSC Permian NM

Project: Lea County (NAD83 New Mexico East)

Site: Sec 27-T26S-R34E

Well: Boll Weevil 27-34 Fed Com 10H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Boll Weevil 27-34 Fed Com 10H

RKB @ 3255.30ft RKB @ 3255.30ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Boll Weevil 27-3- - plan misses target of a Point	0.00 center by 755	0.00 1.67ft at 0.00	0.00 ft MD (0.00	-7,534.44 TVD, 0.00 N,	509.90 0.00 E)	364,971.19	814,091.07	32.000335	-103.453462

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coor +N/-S (ft)	dinates +E/-W (ft)	Comment	
12,240.38	12,227.04	175.00	449.00	KOP @ 12240' MD, 50' FNL, 1305' FEL	
12,481.52	12,461.13	125.00	449.39	FTP @ 12482' MD, 100' FNL, 1305' FEL	
17,798.00	12,800.00	-5,055.42	490.32	Cross section @ 17798' MD, 0' FNL, 1305' FEL	
20,197.08	12,800.00	-7,454.42	509.27	LTP @ 20197' MD, 100' FSL, 1305' FEL	
20,277.08	12,800.00	-7,534.42	509.90	PBHL; 20' FSL, 1305' FEL	



Devon Energy Center 333 West Sheridan Avenue Oklahoma City, Oklahoma 73102-5015

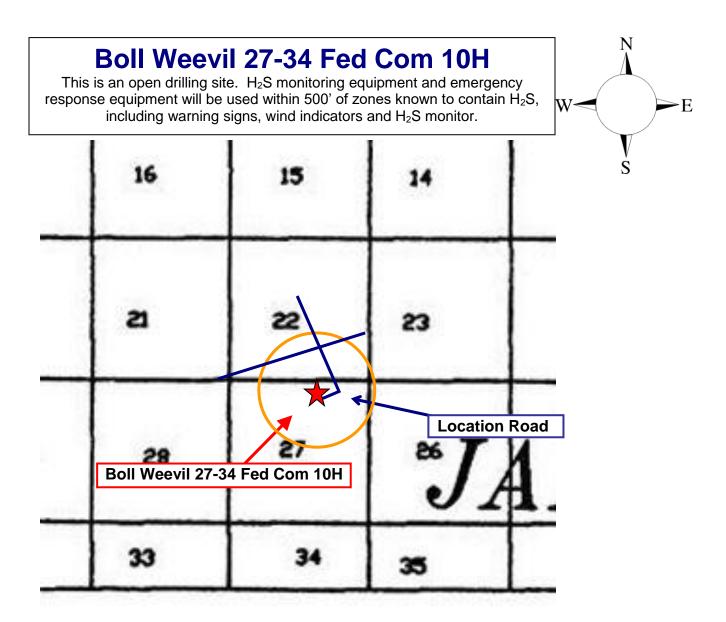
Hydrogen Sulfide (H₂S) Contingency Plan

For

Boll Weevil 27-34 Fed Com 10H

Sec-27 T-26S R-34E 225' FNL & 1754' FEL LAT. = 32.021056' N (NAD83) LONG = 103.454909' W

Lea County NM



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Il Specific Threst Gravity Limit		Hazardous Limit	Lethal Concentration	
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm	
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm	

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

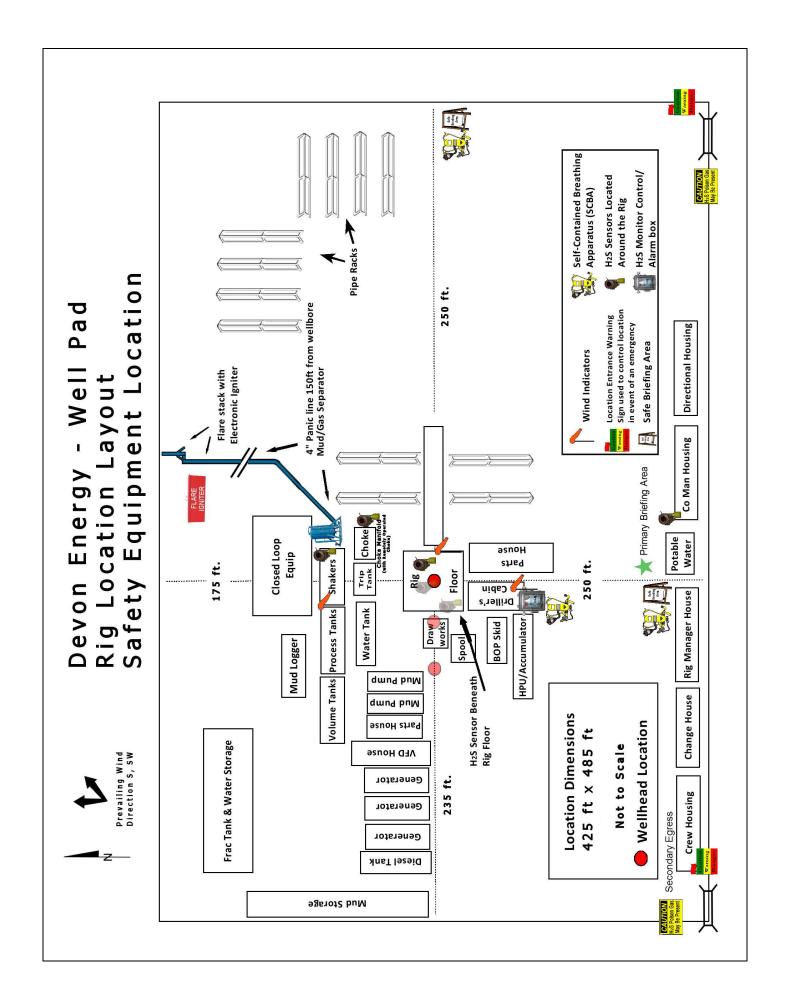
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
<u>Agency</u>	Call List	
<u>Lea</u>	Hobbs	
County	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Edd <u>y</u>	Carlsbad	
<u>County</u>	State Police	885-3137
(575 <u>)</u>	City Police	885-2111
<u>,</u>	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	(000) 200-7110
	Wild Well Control	(201) 704 4700
		(281) 784-4700
	Cudd Pressure Control (915) 699-0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs (TX & NM)	(800) 642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366

Prepared in conjunction with Dave Small



PECOS DISTRICT SURFACE USE

CONDITIONS OF APPROVAL

						_	-		
Boll Weevil 27 Surface Bottom Hole	Section	27 34		Well R34E R34E	225	FNL, FSL,	1161 360		Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section Section	27 34	2H T26S, T26S,	Well R34E R34E	225	FNL, FSL,	1191 1010	,	Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section Section	27	T26S,	Well R34E R34E	225	FNL, FSL,			Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27	T26S,	Well R34E R34E	225	FNL, FSL,	2508 2310		Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27	T26S,	Well R34E R34E	225	FNL, FSL,	1814 2300		Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27 34	T26S,	Well R34E R34E	225	FNL, FSL,	1784 1660		Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27 34		Well R34E R34E	372	FNL, FSL,			Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27	T26S,	Well R34E R34E	372	FNL, FSL,	447 360		Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27		Well R34E R34E	225	FNL, FSL,	2448 1305	FWL, FWL,	Lea County Lea County
Boll Weevil 27 Surface Bottom Hole	Section	27 34		Well R34E R34E		FNL, FSL,	1754 1305	FEL, FEL,	Lea County Lea County

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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V. SPECIAL REQUIREMENT(S)

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Timing Limitation Exceptions:

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

Hydrology

TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Livestock Watering Requirement

Any damage to structures that provide water to livestock throughout the life of the well, caused by operations from the well site, must be immediately corrected by the operator. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

The operator must contact the allotment holder prior to construction to identify the location of the pipeline. The operator must take measures to protect the pipeline from compression or other damages. If the pipeline is damaged or compromised in any way near the proposed project as a result of oil and gas activity, the operator is responsible for repairing the pipeline immediately. The operator must notify the BLM office (575-234-5972) and the private surface landowner or the grazing allotment holder if any damage occurs to structures that provide water to livestock.

Fence Requirement

Where entry is granted across a fence line, the fence must be braced and tied off on both sides of the passageway with H-braces prior to cutting. Once the work is completed, the fence will be restored to its prior condition, or better. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

During construction, the proponent shall minimize disturbance to existing fences, water lines, troughs, windmills, and other improvements on public lands. The proponent is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the grazing permittee/allottee prior to disturbing any range improvement projects. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s). Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations. A gate shall be constructed on one side of the cattleguard and fastened securely to H-braces.

Tank Battery COAs Only: TANK BATTERY:

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain $1\frac{1}{2}$ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

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Approval Date: 10/21/2020

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

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Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

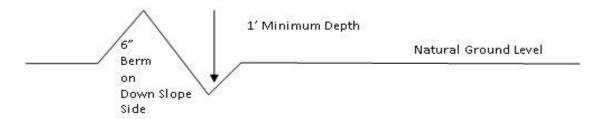
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%} + 100' = 200'$$
 lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil4. Revegetate slopes

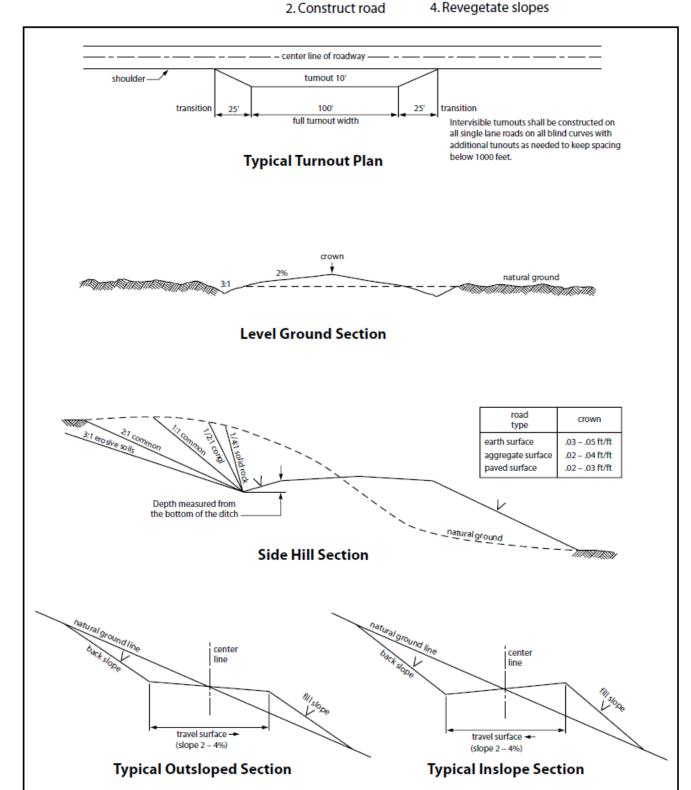


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

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Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

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4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.
6. The pipeline will be buried with a minimum cover of _36_ inches between the top of the pipe and ground level.
7. The maximum allowable disturbance for construction in this right-of-way will be $\underline{30}$ feet:
• Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (<i>Blading is defined as the complete removal of brush and ground vegetation.</i>)
• Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
• The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
11. In those areas where erosion control structures are required to stabilize soil conditions, the

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holder will install such structures as are suitable for the specific soil conditions being encountered

and which are in accordance with sound resource management practices.

seeding requir	rements, using the following seed i	mix	X.
	() seed mixture 1	() seed mixture 3
	(X) seed mixture 2	() seed mixture 4
	() seed mixture 2/LPC	() Aplomado Falcon Mixture
to blend with		Tl	ety requirements shall be painted by the holder he paint used shall be color which simulates Munsell Soil Color No. 5Y 4/2.
way and at all number, and the	road crossings. At a minimum, si he product being transported. All	ign sig	point of origin and completion of the right-of- is will state the holder's name, BLM serial gas and information thereon will be posted in a tained in a legible condition for the life of the
maintenance a before mainten pipeline route	as determined necessary by the Au nance begins. The holder will take is not used as a roadway. As dete	tho e w rm	a road for purposes other than routine orized Officer in consultation with the holder whatever steps are necessary to ensure that the nined necessary during the life of the pipeline, truct temporary deterrence structures.
discovered by immediately re immediate are Authorized Of determine app holder will be	the holder, or any person working eported to the Authorized Officer. a of such discovery until written a fficer. An evaluation of the discoveropriate actions to prevent the loss	g or H uth very s of tion	(historic or prehistoric site or object) In his behalf, on public or Federal land shall be lolder shall suspend all operations in the norization to proceed is issued by the y will be made by the Authorized Officer to f significant cultural or scientific values. The n and any decision as to proper mitigation after consulting with the holder.
of operations. which include of weeds due to	Weed control shall be required on s associated roads, pipeline corrido to this action. The operator shall co	th or a	ous weeds become established within the areas the disturbed land where noxious weeds exist, and adjacent land affected by the establishment stult with the Authorized Officer for acceptable PA and BLM requirements and policies.
otherwise fend	ced, screened, or netted to prevent	liv	nd maintain pipeline/utility trenches that are not restock, wildlife, and humans from becoming ruct and maintain escape ramps, ladders, or

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached

other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the

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reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

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- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

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Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

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Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus) Sand love grass (Eragrostis trichodes) Plains bristlegrass (Setaria macrostachya)	1.0 1.0 2.0

^{*}Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | **Devon Energy Production Company LP**

LEASE NO.: NMNM100569

LOCATION: | Section 27, T.26 S., R.34 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: Boll Weevil 27-34 Fed Com 1H

SURFACE HOLE FOOTAGE: 225'/N & 1161'/W **BOTTOM HOLE FOOTAGE** 20'/S & 360'/W

WELL NAME & NO.: Boll Weevil 27-34 Fed Com 2H

SURFACE HOLE FOOTAGE: 225'/N & 1191'/W **BOTTOM HOLE FOOTAGE** 20'/S & 1010'/W

WELL NAME & NO.: Boll Weevil 27-34 Fed Com 3H

SURFACE HOLE FOOTAGE: 225'/N & 2478'/W **BOTTOM HOLE FOOTAGE** 20'/S & 1660'/W

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 4H

SURFACE HOLE FOOTAGE: 225'/N & 2508'/W **BOTTOM HOLE FOOTAGE** 20'/S & 2310'/W

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 5H

SURFACE HOLE FOOTAGE: 225'/N & 1814'/E **BOTTOM HOLE FOOTAGE** 20'/S & 2300'/E

WELL NAME & NO.: Boll Weevil 27-34 Fed Com 6H

SURFACE HOLE FOOTAGE: 225'/N & 1784'/E BOTTOM HOLE FOOTAGE 20'/S & 1660'/E

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 7H

SURFACE HOLE FOOTAGE: 372'/N & 477'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1010'/E

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 8H

SURFACE HOLE FOOTAGE: 372'/N & 447'/E **BOTTOM HOLE FOOTAGE** 20'/S & 360'/E

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 9H

SURFACE HOLE FOOTAGE: 225'/N & 2448'/W **BOTTOM HOLE FOOTAGE** 20'/S & 1305'/W

WELL NAME & NO.: | Boll Weevil 27-34 Fed Com 10H

SURFACE HOLE FOOTAGE: 225'/N & 1754'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1305'/E

COA

H2S	☑ Yes	□ No	
Potash	■ None	☐ Secretary	R -111-P
Cave/Karst Potential	© Low	☐ Medium	☐ High
Cave/Karst Potential	Critical		
Variance	None	☑ Flex Hose	C Other
Wellhead	Conventional	Multibowl	© Both
Other	□4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled	▼ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	▼ COM	□ Unit

OPERATOR IS ONLY APPROVED FOR THE FOLLOWING DESIGN, OTHER DESIGNS SUBMITTED WILL BE VOID.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Wolfcamp** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Alternate Casing Design:

- 1. The 13-3/8 inch surface casing shall be set at approximately 1055 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

- after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

- 1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

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Approval Date: 10/21/2020

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

 - Lea County
 Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

- hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Page 9 of 9



Operator Certification Data Report 10/27/2020

DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Revised August 1, 2011

Revised August 1, 2011

OCD - HOBDSchmit one copy to appropriate

District Occ. 10|29|2020 RECEIVED

Form C-102

□ AMENDED REPORT

Date

08/03/19

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

	WELL LOCATION AND	ACREAGE DEDICATION PLAT				
API Number 30-025-47957	Pool Code	Pool Code Pool Name				
30-025-4/95/	96776	JABALINA; WOLFCAMP, SOUTHWEST				
Property Code	Prop	erty Name	Well Number			
329772	BOLL WEEVIL	27-34 FED COM	10H			
OGRID No.	Opera	Operator Name				
6137	DEVON ENERGY PROI	DEVON ENERGY PRODUCTION COMPANY, L.P.				

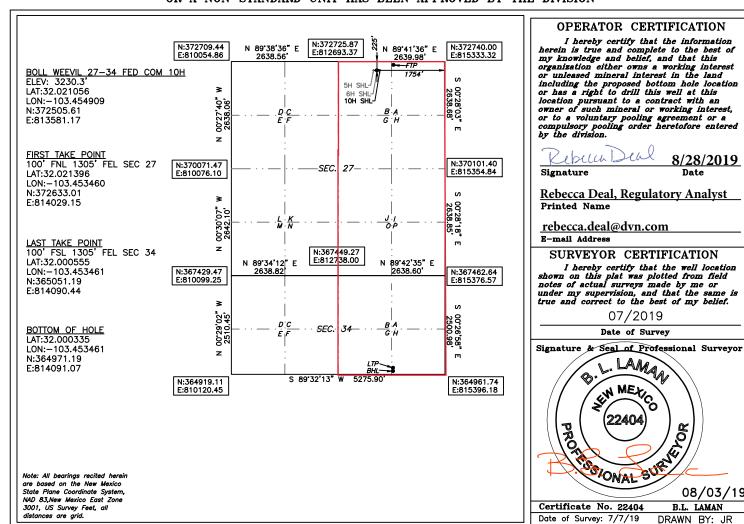
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	27	26-S	34-E		225	NORTH	1754	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	eet from the East/West line	
Н	34	26-S	34−E		20	SOUTH	1305	EAST	LEA
Dedicated Acres Joint or 1		r Infill	Consolidation (Code Or	der No.				
471.68									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Inten	t	As Dril	led											
API#	30-025-47	7957												
Ope	rator Nar		Property Name:								Well Number			
Kick C	Off Point ((KOP)												
UL	Section	Township	Range	Lot	Feet		From N	N/S	Feet		From	n E/W	County	
Latitu	ıde				Longitu	ıde							NAD	
First 1	Гake Poin				•									
UL	Section	Township	Range	Lot	Feet		From N	N/S	Feet		From	n E/W	County	
Latitu	ıde			•	Longitu	ıde			•	1			NAD	
Last T	ake Poin	t (LTP)	Range	Lot	Feet	Fro	m N/S	Feet		From E	=/w	Count	v	
Latitu			80		Longitu						-,	NAD		
Latite	iuc .				Longite	iuc .						IVAD		
Is this	Is this well the defining well for the Horizontal Spacing Unit?													
Is this	well an i	infill well?												
	ng Unit.	ease provi	de API if	availak	ole, Opei	rator	Name	and v	vell nu	umber	for [Definir	ng well fo	r Horizontal
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 to Appropriate
to Appropriate
OCD - HOBB District Office
10/29/2020
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Submit Original

GAS CAPTURE PLAN

x Original	Operator & OGRID No.: _	Devon Production Co., L.P. (6137)		
☐ Amended	•	Date:_	8/29/2019	
Reason for Amendment:				

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: A C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule 19.15.18.12.A

Well(s)/Production Facility – Boll Weevil 27 CTB 2

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (STR)	Footages	Expected MCF/D	Flared or Vented	Comments
				MCF/D	vented	
Boll Weevil 27-34 Fed Con	n 5H	Sec 27-T26S-R34E	225' FNL & 2300' FEL		,	Will connect to Boll Weevil 27 CTB 2
Boll Weevil 27-34 Fed Co	m 6H	Sec 27-T26S-R34E	225' FNL & 1660' FEL			Will connect to Boll Weevil 27 CTB 2
Boll Weevil 27-34 Fed Con	n 10H 3 0	Sec 27-T26-R34E -025-47957	225' FNL & 1754' FEL			Will connect to Boll Weevil 27 CTB

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Energy Transfer and will be connected to Energy Transfer low/high pressure gathering system located in Reeves Co. TX. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. Devon provides (periodically) to Energy Transfer a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Devon and Energy Transfer have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at the Red Bluff Processing Plant located in Section 35 of Blk 57, T2, T&P RR Co. Reeves Co. TX. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Energy Transfer's system at that time. Based on current information, it is Devon's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - o Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines