Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

RECEIVED

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

1
5. Lease Serial No.
6. If Indian, Allotee or Tribe Name

BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Gas Well Oil Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone [328253] 2. Name of Operator 9. API Well No. 30-025-47209 [6137]3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 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. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. 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 work will start* 23. Estimated duration 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable) 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) Title Office Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction GCP Rec 06/01/2020

SL

PPROVED WITH CONDITIONS Approval Date: 05/27/2020

*(Instructions on page 2)

Right Meow 31-6 Fed Com 234H

1. Geologic Formations

TVD of target	10678	Pilot hole depth	N/A
MD at TD:	20800	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	861		
Salt	1229		
Base of Salt	4447		
Delaware	4597		
Bell Canyon	4640		
Cherry Canyon	5499		
Brushy Canyon	6777		
Bone Spring 1st	8374		
Bone Spring 2nd	10118		
Bone Spring 3rd	10677		
		-	
			_

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

2. Casing Program

Hole Size	Casing	Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Com	Collapse	Burst	Tension
17 1/2	0	886 TVD	13 3/8	48.0	H40	BTC	1.125	1.25	1.6
12 1/4	0	4572 TVD	9 5/8	40.0	J-55	ВТС	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	ВТС	1.125	1.25	1.6
				BLM M	linimum Safe	ety 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, and flows experienced while drilling. Setting depth with be revised accordingly if needed.
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

Casing Program (Alternative Design)

Hole Size	Casing	Interval	Cag Sina	Csg. Size Wt	Grade	Grade Conn	Min SF	Min SF	Min SF
Hole Size	From	То	Csg. Size	(PPF)	Grade	Colli	Collapse	Burst	Tension
17 1/2	0	886 TVD	13 3/8	48.0	H40	ВТС	1.125	1.25	1.6
12 1/4	0	8,300' TVD	9 5/8	40.0	J-55	ВТС	1.125	1.25	1.6
8 3/4	0	TD	5 1/2	17.0	P110	ВТС	1.125	1.25	1.6
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet

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- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth with be
- A variance is requested to wave the centralizer requirement for the Intermediate casing and production casing.

Right Meow 31-6 Fed Com 234H

	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 assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
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?	
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?	•
(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 strings cemented to surface?	

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	680	Surf	13.2	1.4	Lead: Class C Cement + additives
Total	499	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	488	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	486	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	499	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	517	500' Tieback	9.0	3.3	Lead: Class H /C + additives
roduction	2057	КОР	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	30%
Production	10%

Cementing Program (3-String Alternative Design)

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	680	Surf	13.2	1.4	Lead: Class C Cement + additives
Int	963	Surf	9.0	3.3	Lead: Class C Cement + additives
IIII	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
	934	Surf	9.0	3.3	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	136	500' above shoe	13.2	1.4	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	386	Surf	9.0	3.3	2nd stage Lead: Class C Cement + additives
	136	500' above DV	13.2	1.4	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.4	Squeeze Lead: Class C Cement + additives
Intermediate	499	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	243	500' Tieback	9.0	3.3	Lead: Class H /C + additives
1 Toduction	2057	КОР	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	30%
Production	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:																								
			Anı	nular	X	50% of rated working pressure																								
Int 1	13-58"	5M	Bline	d Ram	X																									
	13-36	JIVI	Pipe	Ram		5M																								
			Doub	le Ram	X	3101																								
			Other*																											
	4.2. 7.(0.1)	5M	Annular		X	50% of rated working pressure																								
B 1 .:			5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	5M	Bline	d Ram	X
Production	13-5/8"																											5M	3M	SIVI
															Doub	le Ram	X	5M												
			Other*																											
			Annul	ar (5M)																										
			Blind Ram																											
			Pipe Ram																											
			Double Ram																											
			Other*																											

5. Mud Program (Three String Design)

Section	Туре	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	Brine	10-10.5
Production	WBM	8.5-9

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
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6. Logging and Testing Procedures

Logging, Co	oring 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 sbumitted 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	
	Density	
X	CBL	Production casing

X	Mud log	KOP to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4997
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

Right Meow 31-6 Fed Com 234H

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 pad.
- 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. At 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.

	Other, describe
X	Directional Plan
Attachmen	ts

WCDSC Permian NM

Lea County (NAD83 New Mexico East) Sec 31-T23S-R32E Right Meow 31-6 Fed Com 234H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

11 December, 2019

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

Grid

Minimum Curvature

Project Lea County (NAD83 New Mexico East)

Map System: US State Plane 1983 System:
Geo Datum: North American Datum 1983

Geo Datum: North American Datum 198
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Sec 31-T23S-R32E

461,832.00 usft Northing: Site Position: Latitude: 32.268176 729,990.21 usft -103.722975 Мар Easting: From: Longitude: Position Uncertainty: Slot Radius: 13-3/16 " 0.33 0.00 ft **Grid Convergence:**

Well Right Meow 31-6 Fed Com 234H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 461,521.27 usft
 Latitude:
 32.267259

 +E/-W
 0.00 ft
 Easting:
 734,000.67 usft
 Longitude:
 -103.710006

Position Uncertainty 0.50 ft Wellhead Elevation: Ground Level: 3,597.50 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 60.05 47,692.79225025 IGRF2015 12/10/2019 6.75

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 0.00 175.97

Plan Survey Tool Program Date 12/11/2019

Depth From Depth To

(ft) (ft) Survey (Wellbore) Tool Name Remarks

1 0.00 20,799.50 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 (°/100usft) (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,000.00 0.00 0.00 2,000.00 0.00 0.00 0.00 0.00 0.00 0.00 2.548.90 5.49 77.65 2.548.06 5.62 25.66 1.00 1.00 0.00 77.65 5.49 9.421.98 77.65 9,389.62 146.25 667.89 0.00 0.00 0.00 0.00 9,787.92 0.00 0.00 9,755.00 150.00 685.00 1.50 -1.50 0.00 180.00 10,137.96 0.00 0.00 10,105.04 150.00 685.00 0.00 0.00 0.00 11,037.96 90.00 179.82 10,678.00 -422.96 686.84 10.00 10.00 0.00 179.82 PBHL - Right Meow 3 20,799.50 90.00 179.82 10,678.00 -10,184.45 718.11 0.00 0.00 0.00 0.00 PBHL - Right Meow 3

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

Grid

Measured Depth Inclination Azimuth Portical Popth (t) (t	Planned Survey	,								
100.00	Depth			Depth			Northing	Easting	Latitude	Longitude
200.00	0.00	0.00	0.00	0.00	0.00	0.00	461,521.27	734,000.67	32.267259	-103.710006
300.00	100.00	0.00	0.00	100.00	0.00	0.00	461,521.27	734,000.67	32.267259	-103.710006
400.00	200.00	0.00	0.00	200.00	0.00	0.00	461,521.27	734,000.67	32.267259	-103.710006
500.00	300.00	0.00	0.00	300.00	0.00	0.00	461,521.27		32.267259	-103.710006
600.00		0.00	0.00				461,521.27	734,000.67	32.267259	-103.710006
700.00										
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3,300.00 5.49 77.65 3,295.72 20.99 95.85 461,542.26 734,096.51 32.267315 -103.709696 3,400.00 5.49 77.65 3,395.26 23.03 105.19 461,544.30 734,105.86 32.267320 -103.709665 3,500.00 5.49 77.65 3,494.80 25.08 114.54 461,546.35 734,115.20 32.267331 -103.709635 3,600.00 5.49 77.65 3,693.88 29.17 133.22 461,550.44 734,133.89 32.267337 -103.709674 3,800.00 5.49 77.65 3,793.42 31.22 142.57 461,552.49 734,143.23 32.267342 -103.709574 3,900.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709544 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709434 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,560.67 734,180.61 32.267364 -103.709432 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267364 -103.709393 4,500.00 5.49 77.65 4,590.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709393 4,500.00 5.49 77.65 4,590.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,699.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709363 4,500.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267397 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267397 -103.709302 4,700.00 5.49 77.65 4,888.38 53.73 226.66 461,570.90 734,227.33 32.267397 -103.709302 4,900.00 5.49 77.65 4,888.38 53.73 226.66 461,570.90 734,227.33 32.267397 -103.709302 4,900.00 5.49 77.65 4,888.38 53.73 226.66 461,570.90 734,227.33 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 226.66 461,570.90 734,225.36 32.267403 -103.709212 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,225.36 32.267403 -103.709161 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,225.36 32.267413 -103.709161 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,226.471 32.267419 -103.709161 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,226.71 32.2	3,100.00	5.49	77.65	3,096.63	16.90	77.16	461,538.17	734,077.83	32.267304	-103.709756
3,400.00 5.49 77.65 3,395.26 23.03 105.19 461,544.30 734,105.86 32.267320 -103.709665 3,500.00 5.49 77.65 3,494.80 25.08 114.54 461,546.35 734,115.20 32.267326 -103.709635 3,600.00 5.49 77.65 3,594.34 27.13 123.88 461,548.40 734,124.55 32.267331 -103.709605 3,700.00 5.49 77.65 3,693.88 29.17 133.22 461,550.44 734,133.89 32.267337 -103.709574 3,800.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,132.38 32.267342 -103.709544 4,000.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709544 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,556.58 734,161.92 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709453 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,500.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.87 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267397 -103.709302 4,700.00 5.49 77.65 4,888.38 53.73 245.35 461,570.90 734,227.33 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,246.02 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,227.33 32.267397 -103.709272 4,800.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,225.36 32.267403 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,226.50 32.267413 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.00 734,226.50 32.267419 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,224.05 32.267413 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,224.05 32.267419 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,224.05 32.267419 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,224.05 32.2	3,200.00	5.49	77.65	3,196.18	18.94	86.50	461,540.21	734,087.17	32.267309	-103.709726
3,500.00 5.49 77.65 3,494.80 25.08 114.54 461,546.35 734,115.20 32.267326 -103.709635 3,600.00 5.49 77.65 3,594.34 27.13 123.88 461,548.40 734,124.55 32.267331 -103.709605 3,700.00 5.49 77.65 3,693.88 29.17 133.22 461,550.44 734,133.89 32.267337 -103.709574 3,800.00 5.49 77.65 3,793.42 31.22 142.57 461,552.49 734,143.23 32.267342 -103.709544 4,000.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709544 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,180.61 32.267364 -103.709393 4,300.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709393 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267386 -103.709302 4,700.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709302 4,800.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709302 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.90 734,227.33 32.267397 -103.709302 1,000.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,226.02 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,226.67 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,226.67 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,226.67 32.267397 -103.709211 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,226.471 32.267408 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,226.471 32.267403 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,226.471 32.267419 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.90 734,264.71 32.267419 -103.709120 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,579.90 734,264.71 3	3,300.00	5.49	77.65	3,295.72	20.99	95.85	461,542.26	734,096.51	32.267315	-103.709696
3,600.00 5.49 77.65 3,594.34 27.13 123.88 461,548.40 734,124.55 32.267331 -103.709605 3,700.00 5.49 77.65 3,693.88 29.17 133.22 461,550.44 734,133.89 32.267337 -103.709574 3,800.00 5.49 77.65 3,793.42 31.22 142.57 461,552.49 734,143.23 32.267342 -103.709544 3,900.00 5.49 77.65 3,892.97 33.27 151.91 461,556.58 734,152.58 32.267348 -103.709514 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709423 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,562.72 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267367 -103.709393	3,400.00	5.49	77.65	3,395.26	23.03	105.19	461,544.30	734,105.86	32.267320	-103.709665
3,700.00 5.49 77.65 3,693.88 29.17 133.22 461,550.44 734,133.89 32.267337 -103.709574 3,800.00 5.49 77.65 3,793.42 31.22 142.57 461,552.49 734,143.23 32.267342 -103.709544 3,900.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709514 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267397 -103.709272 4,800.00 5.49 77.65 4,888.84 51.68 236.01 461,570.90 734,227.33 32.267397 -103.709272 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,570.90 734,255.36 32.267403 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,087.46 57.82 264.04 461,570.90 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120	3,500.00	5.49	77.65	3,494.80	25.08	114.54	461,546.35	734,115.20	32.267326	-103.709635
3,800.00 5.49 77.65 3,793.42 31.22 142.57 461,552.49 734,143.23 32.267342 -103.709544 3,900.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709514 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709322 4,600.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,888.44 51.68 236.01 461,570.90 734,226.33 32.267392 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,570.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.09 734,264.71 32.267413 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.09 734,264.71 32.267413 -103.709121 5,000.00 5.49 77.65 5,087.46 57.82 264.04 461,570.09 734,264.71 32.267419 -103.709120	3,600.00	5.49	77.65	3,594.34		123.88	461,548.40	734,124.55	32.267331	-103.709605
3,900.00 5.49 77.65 3,892.97 33.27 151.91 461,554.54 734,152.58 32.267348 -103.709514 4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709322 4,700.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709272	3,700.00	5.49	77.65	3,693.88	29.17	133.22	461,550.44	734,133.89	32.267337	-103.709574
4,000.00 5.49 77.65 3,992.51 35.31 161.26 461,556.58 734,161.92 32.267353 -103.709484 4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267397 -103.709212										
4,100.00 5.49 77.65 4,092.05 37.36 170.60 461,558.63 734,171.27 32.267359 -103.709453 4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267403 -103.709212										
4,200.00 5.49 77.65 4,191.59 39.40 179.94 461,560.67 734,180.61 32.267364 -103.709423 4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267397 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709121										
4,300.00 5.49 77.65 4,291.13 41.45 189.29 461,562.72 734,189.95 32.267370 -103.709393 4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267397 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709151										
4,400.00 5.49 77.65 4,390.67 43.50 198.63 461,564.77 734,199.30 32.267375 -103.709363 4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267397 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709181 5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709120										
4,500.00 5.49 77.65 4,490.21 45.54 207.98 461,566.81 734,208.64 32.267381 -103.709332 4,600.00 5.49 77.65 4,589.76 47.59 217.32 461,568.86 734,217.99 32.267386 -103.709302 4,700.00 5.49 77.65 4,689.30 49.63 226.66 461,570.90 734,227.33 32.267392 -103.709272 4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267397 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709181 5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120										
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4,800.00 5.49 77.65 4,788.84 51.68 236.01 461,572.95 734,236.67 32.267397 -103.709242 4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709181 5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120				,			,			
4,900.00 5.49 77.65 4,888.38 53.73 245.35 461,575.00 734,246.02 32.267403 -103.709211 5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709181 5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120							,			
5,000.00 5.49 77.65 4,987.92 55.77 254.70 461,577.04 734,255.36 32.267408 -103.709181 5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120										
5,100.00 5.49 77.65 5,087.46 57.82 264.04 461,579.09 734,264.71 32.267413 -103.709151 5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120										
5,200.00 5.49 77.65 5,187.00 59.87 273.39 461,581.14 734,274.05 32.267419 -103.709120										
	5,300.00	5.49	77.65	5,167.00	61.91	282.73	461,583.18	734,274.05	32.267424	-103.709090

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

Grid

Planned Survey									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,400.00	5.49	77.65	5,386.09	63.96	292.07	461,585.23	734,292.74	32.267430	-103.709060
5,500.00	5.49	77.65	5,485.63	66.00	301.42	461,587.27	734,302.08	32.267435	-103.709030
5,600.00	5.49	77.65	5,585.17	68.05	310.76	461,589.32	734,311.43	32.267441	-103.708999
5,700.00	5.49	77.65	5,684.71	70.10	320.11	461,591.37	734,320.77	32.267446	-103.708969
5,800.00	5.49	77.65	5,784.25	72.14	329.45	461,593.41	734,330.12	32.267452	-103.708939
5,900.00	5.49	77.65	5,883.79	74.19	338.79	461,595.46	734,339.46	32.267457	-103.708909
6,000.00	5.49	77.65	5,983.34	76.23	348.14	461,597.50	734,348.80	32.267463	-103.708878
6,100.00	5.49	77.65	6,082.88	78.28	357.48	461,599.55	734,358.15	32.267468	-103.708848
6,200.00	5.49	77.65	6,182.42	80.33	366.83	461,601.60	734,367.49	32.267474	-103.708818
6,300.00	5.49	77.65	6,281.96	82.37	376.17	461,603.64	734,376.84	32.267479	-103.708788
6,400.00	5.49	77.65	6,381.50	84.42	385.51	461,605.69	734,386.18	32.267485	-103.708757
6,500.00	5.49	77.65	6,481.04	86.47	394.86	461,607.74	734,395.52	32.267490	-103.708727
6,600.00	5.49	77.65	6,580.58	88.51	404.20	461,609.78	734,404.87	32.267496	-103.708697
6,700.00	5.49	77.65	6,680.13	90.56	413.55	461,611.83	734,414.21	32.267501	-103.708666
6,800.00	5.49	77.65	6,779.67	92.60	422.89	461,613.87	734,423.56	32.267507	-103.708636
6,900.00	5.49	77.65	6,879.21	94.65	432.23	461,615.92	734,432.90	32.267512	-103.708606
7,000.00	5.49	77.65	6,978.75	96.70	441.58	461,617.97	734,442.24	32.267517	-103.708576
7,100.00	5.49	77.65	7,078.29	98.74	450.92	461,620.01	734,451.59	32.267523	-103.708545
7,200.00	5.49	77.65	7,177.83	100.79	460.27	461,622.06	734,460.93	32.267528	-103.708515
7,300.00	5.49	77.65	7,277.38	102.83	469.61	461,624.10	734,470.28	32.267534	-103.708485
7,400.00	5.49	77.65	7,376.92	104.88	478.95	461,626.15	734,479.62	32.267539	-103.708455
7,500.00	5.49	77.65	7,476.46	106.93	488.30	461,628.20	734,488.96	32.267545	-103.708424
7,600.00	5.49	77.65	7,576.00	108.97	497.64	461,630.24	734,498.31	32.267550	-103.708394
7,700.00	5.49	77.65	7,675.54	111.02	506.99	461,632.29	734,507.65	32.267556	-103.708364
7,800.00	5.49	77.65	7,775.08	113.07	516.33	461,634.34	734,517.00	32.267561	-103.708333
7,900.00	5.49	77.65	7,874.62	115.11	525.68	461,636.38	734,526.34	32.267567	-103.708303
8,000.00	5.49	77.65	7,974.17	117.16	535.02	461,638.43	734,535.68	32.267572	-103.708273
8,100.00	5.49	77.65	8,073.71	119.20	544.36	461,640.47	734,545.03	32.267578	-103.708243
8,200.00	5.49	77.65	8,173.25	121.25	553.71	461,642.52	734,554.37	32.267583	-103.708212
8,300.00	5.49	77.65	8,272.79	123.30	563.05	461,644.57	734,563.72	32.267589	-103.708182
8,400.00	5.49	77.65	8,372.33	125.34	572.40	461,646.61	734,573.06	32.267594	-103.708152
8,500.00	5.49	77.65	8,471.87	127.39	581.74	461,648.66	734,582.41	32.267600	-103.708122
8,600.00	5.49	77.65	8,571.41	129.43	591.08	461,650.70	734,591.75	32.267605	-103.708091
8,700.00	5.49	77.65	8,670.96	131.48	600.43	461,652.75	734,601.09	32.267611	-103.708061
8,800.00	5.49	77.65	8,770.50	133.53	609.77	461,654.80	734,610.44	32.267616	-103.708031
8,900.00	5.49	77.65	8,870.04	135.57	619.12	461,656.84	734,619.78	32.267622	-103.708001
9,000.00	5.49	77.65	8,969.58	137.62	628.46	461,658.89	734,629.13	32.267627	-103.707970
9,100.00	5.49	77.65	9,069.12	139.67	637.80	461,660.94	734,638.47	32.267632	-103.707940
9,200.00	5.49	77.65	9,168.66	141.71	647.15	461,662.98	734,647.81	32.267638	-103.707910
9,300.00	5.49	77.65	9,268.20	143.76	656.49	461,665.03	734,657.16	32.267643	-103.707879
9,400.00	5.49	77.65	9,367.75	145.80	665.84	461,667.07	734,666.50	32.267649	-103.707849
9,421.98	5.49	77.65	9,389.62	146.25	667.89	461,667.52	734,668.56	32.267650	-103.707843
9,500.00	4.32	77.65	9,467.36	147.68	674.41	461,668.95	734,675.07	32.267654	-103.707821
9,600.00	2.82	77.65	9,567.16	149.01	680.49	461,670.28	734,681.15	32.267657	-103.707802
9,700.00	1.32	77.65	9,667.09	149.78	684.01	461,671.05	734,684.68	32.267660	-103.707790
9,787.92	0.00	0.00	9,755.00	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
9,800.00	0.00	0.00	9,767.09	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
9,900.00	0.00	0.00	9,867.09	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
10,000.00	0.00	0.00	9,967.09	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
10,100.00	0.00	0.00	10,067.09	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
10,137.95	0.00	0.00	10,105.04	150.00	685.00	461,671.27	734,685.67	32.267660	-103.707787
	TP @ 10138' I	•	•						
10,200.00	6.20	179.82	10,166.96	146.64	685.01	461,667.91	734,685.68	32.267651	-103.707787
10,300.00	16.20	179.82	10,264.93	127.24	685.07	461,648.51	734,685.74	32.267598	-103.707787

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

Grid

Planned Survey	,								
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
10,400.00	26.20	179.82	10,358.05	91.11	685.19	461,612.38	734,685.85	32.267498	-103.707788
10,500.00	36.20	179.82	10,443.47	39.37	685.35	461,560.64	734,686.02	32.267356	-103.707788
10,600.00	46.20	179.82	10,518.61	-26.42	685.57	461,494.85	734,686.23	32.267175	-103.707789
10,700.00	56.20	179.82	10,581.18	-104.26	685.81	461,417.01	734,686.48	32.266961	-103.707789
10,800.00	66.20	179.82	10,629.29	-191.78	686.10	461,329.49	734,686.76	32.266721	-103.707790
10,900.00	76.20	179.82	10,661.47	-286.33	686.40	461,234.94	734,687.06	32.266461	-103.707791
11,000.00	86.20	179.82	10,676.74	-385.03	686.71	461,136.24	734,687.38	32.266189	-103.707792
11,037.96	90.00	179.82	10,678.00	-422.96	686.84	461,098.32	734,687.50	32.266085	-103.707792
11,100.00	90.00	179.82	10,678.00	-485.00	687.03	461,036.27	734,687.70	32.265915	-103.707793
11,200.00	90.00	179.82	10,678.00	-585.00	687.35	460,936.27	734,688.02	32.265640	-103.707793
11,300.00	90.00	179.82	10,678.00	-685.00	687.68	460,836.27	734,688.34	32.265365	-103.707794
11,400.00	90.00	179.82	10,678.00	-785.00	688.00	460,736.27	734,688.66	32.265090	-103.707795
11,500.00	90.00	179.82	10,678.00	-885.00	688.32	460,636.28	734,688.98	32.264815	-103.707796
11,600.00	90.00	179.82	10,678.00	-985.00	688.64	460,536.28	734,689.30	32.264540	-103.707797
11,700.00	90.00	179.82	10,678.00	-1,085.00	688.96	460,436.28	734,689.62	32.264265	-103.707798
11,800.00	90.00	179.82	10,678.00	-1,185.00	689.28	460,336.28	734,689.94	32.263991	-103.707798
11,900.00	90.00	179.82	10,678.00	-1,284.99	689.60	460,236.28	734,690.26	32.263716	-103.707799
12,000.00	90.00	179.82	10,678.00	-1,384.99	689.92	460,136.28	734,690.58	32.263441	-103.707800
12,100.00	90.00	179.82	10,678.00	-1,484.99	690.24	460,036.28	734,690.90	32.263166	-103.707801
12,200.00	90.00	179.82	10,678.00	-1,584.99	690.56	459,936.28	734,691.22	32.262891	-103.707802
12,300.00	90.00	179.82	10,678.00	-1,684.99	690.88	459,836.28	734,691.54	32.262616	-103.707803
12,400.00	90.00	179.82	10,678.00	-1,784.99	691.20	459,736.28	734,691.86	32.262341	-103.707804
12,500.00	90.00	179.82	10,678.00	-1,884.99	691.52	459,636.28	734,692.19	32.262066	-103.707804
12,600.00	90.00	179.82	10,678.00	-1,984.99	691.84	459,536.28	734,692.51	32.261792	-103.707805
12,700.00	90.00	179.82	10,678.00	-2,084.99	692.16	459,436.28	734,692.83	32.261517	-103.707806
12,800.00	90.00	179.82	10,678.00	-2,184.99	692.48	459,336.28	734,693.15	32.261242	-103.707807
12,900.00	90.00	179.82	10,678.00	-2,284.99	692.80	459,236.29	734,693.47	32.260967	-103.707808
13,000.00	90.00	179.82	10,678.00	-2,384.99	693.12	459,136.29	734,693.79	32.260692	-103.707809
13,100.00	90.00	179.82	10,678.00	-2,484.99	693.44	459,036.29	734,694.11	32.260417	-103.707810
13,200.00	90.00	179.82	10,678.00	-2,584.99	693.76	458,936.29	734,694.43	32.260142	-103.707810
13,300.00	90.00	179.82	10,678.00	-2,684.99	694.08	458,836.29	734,694.75	32.259867	-103.707811
13,400.00	90.00	179.82	10,678.00	-2,784.99	694.40	458,736.29	734,695.07	32.259593	-103.707812
13,500.00	90.00	179.82	10,678.00	-2,884.99	694.72	458,636.29	734,695.39	32.259318	-103.707813
13,600.00	90.00	179.82	10,678.00	-2,984.99	695.04	458,536.29	734,695.71	32.259043	-103.707814
13,700.00	90.00	179.82	10,678.00	-3,084.99	695.36	458,436.29	734,696.03	32.258768	-103.707815
13,800.00	90.00	179.82	10,678.00	-3,184.99	695.69	458,336.29	734,696.35	32.258493	-103.707815
13,900.00	90.00	179.82	10,678.00	-3,284.98	696.01	458,236.29	734,696.67	32.258218	-103.707816
14,000.00	90.00	179.82	10,678.00	-3,384.98	696.33	458,136.29	734,696.99	32.257943	-103.707817
14,100.00	90.00	179.82	10,678.00	-3,484.98	696.65	458,036.29	734,697.31	32.257668	-103.707818
14,200.00	90.00	179.82	10,678.00	-3,584.98	696.97	457,936.29	734,697.63	32.257394	-103.707819
14,300.00		179.82	10,678.00	-3,684.98	697.29	457,836.29	734,697.95	32.257119	-103.707820
14,400.00	90.00	179.82	10,678.00	-3,784.98	697.61	457,736.30	734,698.27	32.256844	-103.707821
14,500.00	90.00	179.82	10,678.00	-3,884.98	697.93	457,636.30	734,698.59	32.256569	-103.707821
14,600.00	90.00	179.82	10,678.00	-3,984.98	698.25	457,536.30	734,698.91	32.256294	-103.707822
14,700.00	90.00	179.82	10,678.00	-4,084.98	698.57	457,436.30	734,699.23	32.256019	-103.707823
14,800.00	90.00	179.82	10,678.00	-4,184.98	698.89	457,336.30	734,699.55	32.255744	-103.707824
14,900.00	90.00	179.82	10,678.00	-4,284.98	699.21	457,236.30	734,699.87	32.255469	-103.707825
15,000.00	90.00	179.82	10,678.00	-4,384.98	699.53	457,136.30	734,700.20	32.255194	-103.707826
15,100.00	90.00	179.82	10,678.00	-4,484.98	699.85	457,036.30	734,700.52	32.254920	-103.707826
15,200.00	90.00	179.82	10,678.00	-4,584.98	700.17	456,936.30	734,700.84	32.254645	-103.707827
15,300.00		179.82	10,678.00	-4,684.98	700.49	456,836.30	734,701.16	32.254370	-103.707828
15,400.00	90.00	179.82	10,678.00	-4,784.98	700.81	456,736.30	734,701.48	32.254095	-103.707829
15,500.00	90.00	179.82	10,678.00	-4,884.98	701.13	456,636.30	734,701.80	32.253820	-103.707830

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

Grid

Planned Survey									
			M. C. I			••	••		
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
15,544.00	90.00	179.82	10,678.00	-4,928.98	701.27	456,592.30	734,701.94	32.253699	-103.707830
Cross se	ection @ 1554	4' MD, 0' FNL	., 800' FEL						
15,600.00	90.00	179.82	10,678.00	-4,984.98	701.45	456,536.30	734,702.12	32.253545	-103.707831
15,700.00	90.00	179.82	10,678.00	-5,084.98	701.77	456,436.30	734,702.44	32.253270	-103.707832
15,800.00	90.00	179.82	10,678.00	-5,184.98	702.09	456,336.31	734,702.76	32.252995	-103.707832
15,900.00	90.00	179.82	10,678.00	-5,284.97	702.41	456,236.31	734,703.08	32.252721	-103.707833
16,000.00	90.00	179.82	10,678.00	-5,384.97	702.73	456,136.31	734,703.40	32.252446	-103.707834
16,100.00	90.00	179.82	10,678.00	-5,484.97	703.05	456,036.31	734,703.72	32.252171	-103.707835
16,200.00	90.00	179.82	10,678.00	-5,584.97	703.37	455,936.31	734,704.04	32.251896	-103.707836
16,300.00	90.00	179.82	10,678.00	-5,684.97	703.70	455,836.31	734,704.36	32.251621	-103.707837
16,400.00	90.00	179.82	10,678.00	-5,784.97	704.02	455,736.31	734,704.68	32.251346	-103.707837
16,500.00	90.00	179.82	10,678.00	-5,884.97	704.34	455,636.31	734,705.00	32.251071	-103.707838
16,600.00	90.00	179.82	10,678.00	-5,984.97	704.66	455,536.31	734,705.32	32.250796	-103.707839
16,700.00	90.00	179.82	10,678.00	-6,084.97	704.98	455,436.31	734,705.64	32.250522	-103.707840
16,800.00	90.00	179.82	10,678.00	-6,184.97	705.30	455,336.31	734,705.96	32.250247	-103.707841
16,900.00 17,000.00	90.00 90.00	179.82 179.82	10,678.00 10,678.00	-6,284.97 -6,384.97	705.62 705.94	455,236.31 455,136.31	734,706.28 734,706.60	32.249972 32.249697	-103.707842 -103.707843
17,100.00	90.00	179.82	10,678.00	-6,484.97	705.94	455,036.31	734,706.92	32.249422	-103.707843
17,100.00	90.00	179.82	10,678.00	-6,584.97	706.58	454,936.32	734,707.24	32.249147	-103.707844
17,300.00	90.00	179.82	10,678.00	-6,684.97	706.90	454,836.32	734,707.56	32.248872	-103.707845
17,400.00	90.00	179.82	10,678.00	-6,784.97	707.22	454,736.32	734,707.88	32.248597	-103.707846
17,500.00	90.00	179.82	10,678.00	-6,884.97	707.54	454,636.32	734,708.20	32.248323	-103.707847
17,600.00	90.00	179.82	10,678.00	-6,984.97	707.86	454,536.32	734,708.53	32.248048	-103.707848
17,700.00	90.00	179.82	10,678.00	-7,084.97	708.18	454,436.32	734,708.85	32.247773	-103.707849
17,800.00	90.00	179.82	10,678.00	-7,184.96	708.50	454,336.32	734,709.17	32.247498	-103.707849
17,900.00	90.00	179.82	10,678.00	-7,284.96	708.82	454,236.32	734,709.49	32.247223	-103.707850
18,000.00	90.00	179.82	10,678.00	-7,384.96	709.14	454,136.32	734,709.81	32.246948	-103.707851
18,100.00	90.00	179.82	10,678.00	-7,484.96	709.46	454,036.32	734,710.13	32.246673	-103.707852
18,200.00	90.00	179.82	10,678.00	-7,584.96	709.78	453,936.32	734,710.45	32.246398	-103.707853
18,300.00	90.00	179.82	10,678.00	-7,684.96	710.10	453,836.32	734,710.77	32.246124	-103.707854
18,400.00	90.00	179.82	10,678.00	-7,784.96	710.42	453,736.32	734,711.09	32.245849	-103.707854
18,500.00	90.00	179.82	10,678.00	-7,884.96	710.74	453,636.32	734,711.41	32.245574	-103.707855
18,600.00	90.00	179.82	10,678.00	-7,984.96	711.06	453,536.33	734,711.73	32.245299	-103.707856
18,700.00	90.00	179.82	10,678.00	-8,084.96	711.38	453,436.33	734,712.05	32.245024	-103.707857
18,800.00	90.00	179.82	10,678.00	-8,184.96	711.71	453,336.33	734,712.37	32.244749	-103.707858
18,900.00	90.00	179.82	10,678.00	-8,284.96	712.03	453,236.33	734,712.69	32.244474	-103.707859
19,000.00 19,100.00	90.00 90.00	179.82 179.82	10,678.00 10,678.00	-8,384.96 8,484.96	712.35 712.67	453,136.33 453,036.33	734,713.01 734,713.33	32.244199 32.243925	-103.707860 -103.707860
19,100.00	90.00	179.82	10,678.00	-8,484.96 -8,584.96	712.67	452,936.33	734,713.33 734,713.65	32.243925 32.243650	-103.707861
19,300.00	90.00	179.82	10,678.00	-8,684.96	712.99	452,836.33	734,713.97	32.243375	-103.707862
19,400.00	90.00	179.82	10,678.00	-8,784.96	713.63	452,736.33	734,713.97	32.243100	-103.707863
19,500.00	90.00	179.82	10,678.00	-8,884.96	713.05	452,636.33	734,714.61	32.242825	-103.707864
19,600.00	90.00	179.82	10,678.00	-8,984.96	714.27	452,536.33	734,714.93	32.242550	-103.707865
19,700.00	90.00	179.82	10,678.00	-9,084.96	714.59	452,436.33	734,715.25	32.242275	-103.707865
19,800.00	90.00	179.82	10,678.00	-9,184.95	714.91	452,336.33	734,715.57	32.242000	-103.707866
19,900.00	90.00	179.82	10,678.00	-9,284.95	715.23	452,236.33	734,715.89	32.241726	-103.707867
20,000.00	90.00	179.82	10,678.00	-9,384.95	715.55	452,136.34	734,716.21	32.241451	-103.707868
20,100.00	90.00	179.82	10,678.00	-9,484.95	715.87	452,036.34	734,716.54	32.241176	-103.707869
20,200.00	90.00	179.82	10,678.00	-9,584.95	716.19	451,936.34	734,716.86	32.240901	-103.707870
20,300.00	90.00	179.82	10,678.00	-9,684.95	716.51	451,836.34	734,717.18	32.240626	-103.707871
20,400.00	90.00	179.82	10,678.00	-9,784.95	716.83	451,736.34	734,717.50	32.240351	-103.707871
20,500.00	90.00	179.82	10,678.00	-9,884.95	717.15	451,636.34	734,717.82	32.240076	-103.707872
20,600.00	90.00	179.82	10,678.00	-9,984.95	717.47	451,536.34	734,718.14	32.239801	-103.707873
20,700.00	90.00	179.82	10,678.00	-10,084.95	717.79	451,436.34	734,718.46	32.239527	-103.707874

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

Project: Lea County (NAD83 New Mexico East)

Site: Sec 31-T23S-R32E

Well: Right Meow 31-6 Fed Com 234H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Right Meow 31-6 Fed Com 234H

RKB @ 3622.50ft RKB @ 3622.50ft

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
20,719.49	90.00	179.82	10,678.00	-10,104.44	717.86	451,416.85	734,718.52	32.239473	-103.707874
LTP @ 20	719' MD, 100	' FSL, 800' FE	EL						
20,799.49	90.00	179.82	10,678.00	-10,184.44	718.11	451,336.85	734,718.78	32.239253	-103.707875
PBHL; 20)' FSL, 800' FI	EL							
20,799.50	90.00	179.82	10,678.00	-10,184.45	718.11	451,336.84	734,718.78	32.239253	-103.707875

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 - Right Meow 31-6 - plan misses target - Point		0.00 09.74ft at 0.0	0.00 Oft MD (0.0	-10,184.45 0 TVD, 0.00 N	718.11 , 0.00 E)	451,336.84	734,718.78	32.239253	-103.707875

Plan Annotations				
Measured	Vertical	Local Cod	ordinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
10,137.9	10,105.04	150.00	685.00	KOP & FTP @ 10138' MD, 200' FNL, 800' FEL
15,544.0	10,678.00	-4,928.98	701.27	Cross section @ 15544' MD, 0' FNL, 800' FEL
20,719.4	9 10,678.00	-10,104.44	717.86	LTP @ 20719' MD, 100' FSL, 800' FEL
20,799.4	9 10,678.00	-10,184.44	718.11	PBHL; 20' FSL, 800' FEL

Devon Energy WELL DETAILS: Right Meow 31-6 Fed Com 234H RKB @ 3622.50ft West(-)/East(+) (400 ft/in) 3597.50 -3200 -2800 -2400 -2000 -1600 -1200 -800 1200 1600 2000 Longitude Northing Easting Latittude 32.267259 -103.710006 461521.27 734000.67 Right Meow 31-6 Fed Com 234H SECTION DETAILS Permit Plan 1 KOP & FTP @ 10138' MD, 200' FNL, 800' FEL MD Inc Azi TVD +N/-S +E/-W VSect Annotation Dleg SDE 31 Fed #2 (Active) SDE 31 Fed #1 (Active) 0.00 0.00 0.00 0.00 0.00 0.00 2000.00 0.00 0.00 2000.00 0.00 0.00 0.00 0.00 2548.90 5.49 77.65 2548.06 5.62 25.66 1.00 -3.80 9421.98 5.49 9389.62 146.25 667.89 0.00 -98.91 -800 9787.91 0.00 0.00 9755.00 150.00 685.00 -101.45 10137.95 0.00 10105.04 150.00 685.00 -101.45 KOP & FTP @ 10138' MD, 200' FNL, 800' FEL 10.00 11037.96 90.00 179.82 10678.00 -422.96 686.84 470.22 20799.50 90.00 10678.00 0.00 10209.74 PBHL; 20' FSL, 800' FEL 179.82 -10184.45 718.11 --1200 SDE 31 Fed #004 (Active) --1600 -2000 devon **--2400** 1200--2800 SDE 31 Fed #08 (Active) 1600--3200 2000--3600 2400 -4000 SDE Fed #16 (Active) 2800 -4400 3200-Sec. 31-23S-32E ft/in) Cross section @ 15544' MD, 0' FNL, 800' FEL (400 Mesa Verde 6 Fed #14 (Active) Mesa Verde 6 Fed #7 (Active) **Azimuths to Grid North** True North: -0.33° Magnetic North: 6.42° Magnetic Field Strength: 47692.8snT Dip Angle: 60.05° Date: 12/10/2019 Model: IGRF2015 **--6400** 5200 -6800 Mesa Verde 6 Fed #5 (Active) Zia 6 Fed #1 (P&A) Mesa Verde 6 Fed #8 (Active) 5600 **--7200** 6000 Sec. 06-24S-32E **--7600** 6400 -8000 Mesa Verde 6 Fed #6 (Active) Mesa Verde 6 Fed #2 (Active) 6800 7200 -8800 7600 **--9200** Mesa Verde 6 Fed #3 (Active) Mesa Verde 6 Fed #11 (Active) 8000 Mesa Verde 6 Fed #9 (Active) 8400 LTP @ 20719' MD, 100' FSL, 800' FEL --10000 8800 --10400 PBHL; 20' FSL, 800' FEL Mesa Verde 7 Fed #7 (Active) 9200 --10800 Mesa Verde 7 Fed #2 (Active) 9600-10000 KOP & FTP @ 10138' MD, 200' FNL, 800' FEL LTP @ 20719' MD, 100' FSL, 800' FEL 10400

Cross section @ 15544' MD, 0' FNL, 800' FEL

Vertical Section at 175.97° (400 ft/in)

6800

3200

10800-

-800

PBHL; 20' FSL, 800' FEL

PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

Right Meow 31	I- 7	FED	233H		Right Meo	w 31 W	ell Pad 7	,	
Surface	Section	31	T23S,	R32E	350	FNL,	1515	FEL,	Lea County
Bottom Hole	Section	7	T24S,	R32E	2620	FNL,	2000	FEL,	Lea County
									-
Right Meow 31	l -6	FED	234H		Right Meo	w 31 W	ell Pad 7	,	
Surface	Section	31	T23S.	R32F	350	FNL.	1485	FEL.	Lea County
O di l'acco	Section	0.	1200,	INDZL	550	1 IVL,	1700	,	Lou County

TABLE OF CONTENTS

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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No Grading all Pad build	as you Go ONLY
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Ground-level Abandoned V	Vell Marker
Hydrology	
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Approval Date: 05/27/2020

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)

No Grading all Pad build as you Go ONLY!!!!!!!

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, 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.

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.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: 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.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects

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within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility. The berm would be maintained through the life of the wells and after IR has been completed.

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.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

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.

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).

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.

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.

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

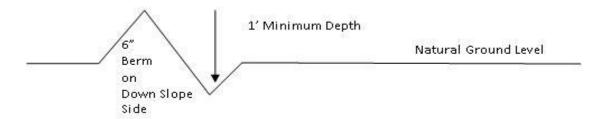
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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

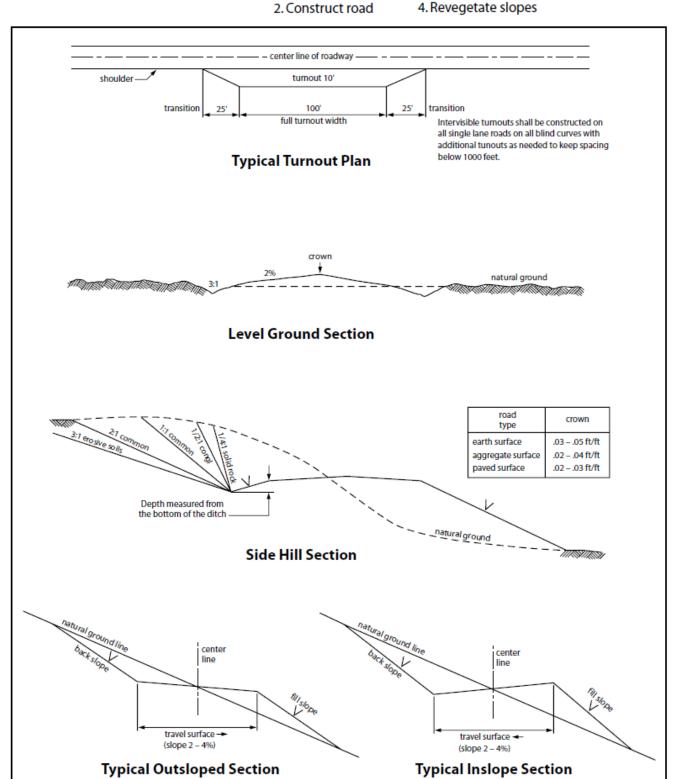


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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.

VRM Facility Requirement 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 <u>36</u> 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 <u>20</u> 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 30 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 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.					

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	r will reseed all disturbed areas. Sements, using the following seed	Seeding will be done according to the attached mix.			
	() seed mixture 1	() seed mixture 3			
	() seed mixture 2	() seed mixture 4			
	X seed mixture 2/LPC	() Aplomado Falcon Mixture			
13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – Shale Green , Munsell Soil Color No. 5Y 4/2.					
way and at all number, and the	road crossings. At a minimum, sine product being transported. All	ne point of origin and completion of the right-of- igns will state the holder's name, BLM serial signs and information thereon will be posted in a an anintained in a legible condition for the life of the			
15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.					
16. Any cultural and/or paleontological resources (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.					
of operations. which includes of weeds due to	Weed control shall be required on a associated roads, pipeline corrid to this action. The operator shall c	xious weeds become established within the areas a the disturbed land where noxious weeds exist, or and adjacent land affected by the establishment onsult with the Authorized Officer for acceptable EPA and BLM requirements and policies.			
18. Escape Ra	amps - The operator will construct	and maintain pipeline/utility trenches that are not			

otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or

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.

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.

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:

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- 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.
- 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.
- 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.

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.

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.

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.

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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.

Seed Mixture for LPC Sand/Shinnery Sites

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 no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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>	<u>lb/acre</u>
Plains Bristlegrass Sand Bluestem Little Bluestem Big Bluestem Plains Coreopsis Sand Dropseed	5lbs/A 5lbs/A 3lbs/A 6lbs/A 2lbs/A 1lbs/A
Sand Dropseed	I IDS/A

^{*}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:
LEASE NO.:
LOCATION:
COUNTY:
Devon Energy Production Company LP
NMNM018848
Section 31, T.23 S., R.32 E., NMPM
Lea County, New Mexico

WELL NAME & NO.: Right Meow 31-7 Fed Com 233H
SURFACE HOLE FOOTAGE: 350'/N & 1515'/E
BOTTOM HOLE FOOTAGE 2620'/N & 2000'/E

WELL NAME & NO.: Right Meow 31-6 Fed Com 234H
SURFACE HOLE FOOTAGE: 350'/N & 1485'/E
BOTTOM HOLE FOOTAGE 20'/S & 800'/E

COA

H2S	☐ Yes	☑ No	
Potash	■ None	☐ Secretary	C 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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1085 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 9-5/8 inch intermediate casing shall be set at approximately 4685 feet 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 9-5/8" annulus. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 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.
 Cement excess is less than 25%, more cement might be required.

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. 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 **3000** (**3M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

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- 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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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)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
 - 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.

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

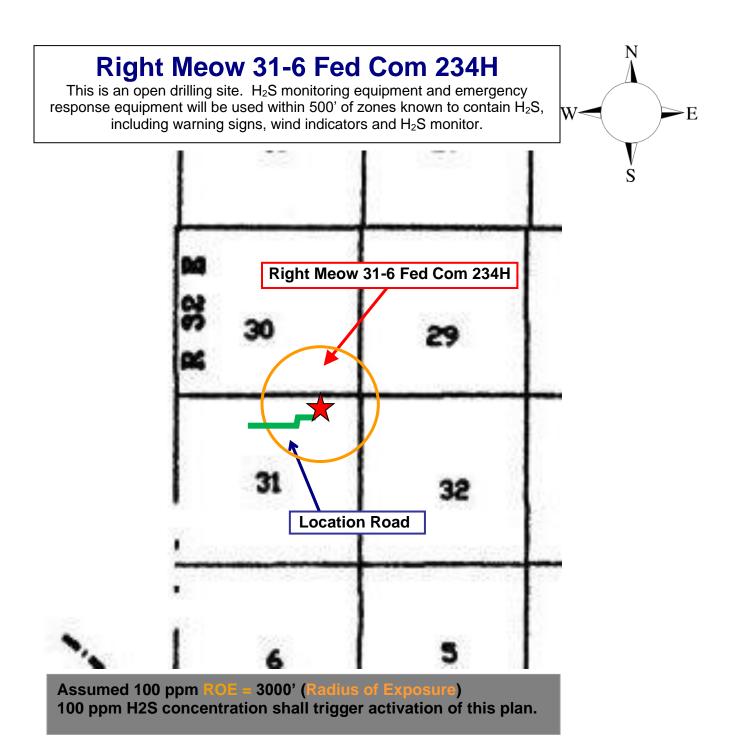
Hydrogen Sulfide (H₂S) Contingency Plan

For

Right Meow 31-6 Fed Com 234H

Sec-31 T-23S R-32E 350 FNL & 1485' FEL LAT. = 32.2672587' N (NAD83) LONG = 103.7100058' W

Lea County NM



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

J	5 1 d. d. c.					
Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal	
Name	Formula	Gravity	Limit		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:

- 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
Agency	Call List	
Lea	Hobbs	
County	Lea County Communication Authority	393-3981
(575)	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
Eddy	Carlsbad	
<u>County</u>	State Police	885-3137
<u>(575)</u>	City Police	885-211
(010)	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) 200-1110
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699-	(915) 563-3356
	0139	(913) 303-3330
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs (NM and TX)	(800)642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-991
position:	Aerocare - Lubbock, TX	(806) 747-8923
peoraem	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-311
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	(222) 221 1000

Prepared in conjunction with Dave Small