Form 3160-3 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

5. Lease Serial No.

BUREAU OF LAND MAN	NMNM0012121				
APPLICATION FOR PERMIT TO D	Ī	6. If Indian, Allotee	or Tribe Name		
1a. Type of work: PDRILL R	REENTER	₹		-	eement, Name and No.
				COTTON DRAW /	NMNM 070928X
	Other			8. Lease Name and	Well No.
1c. Type of Completion: Hydraulic Fracturing S	Single Zon	ne Multiple Zone		COTTON DRAW L	JNIT
				607H	
2. Name of Operator				9. API Well No.	
DEVON ENERGY PRODUCTION COMPANY LP	_			3001547303	
3a. Address		one No. (include area code)	10. Field and Pool, o	
333 West Sheridan Avenue, Oklahoma City, OK 73102	(800) 5	583-3866		PURPLE SAGE-W	OLFCAMP
4. Location of Well (Report location clearly and in accordance	with any	State requirements.*)			Blk. and Survey or Are
At surface NENW / 385 FNL / 2585 FWL / LAT 32.194	15399 / L	ONG -103.7487734		SEC 26/T24S/R31	E/NMP
At proposed prod. zone SWNE / 2310 FNL / 2300 FEL /	LAT 32.	1747297 / LONG -103.7	474897		
14. Distance in miles and direction from nearest town or post off	fice*			12. County or Parish EDDY	13. State NM
15. Distance from proposed* 385 feet	16. No	of acres in lease	17. Spacin	g Unit dedicated to the	nis well
location to nearest property or lease line, ft.	1280		480.0		
(Also to nearest drig. unit line, if any)	1200		400.0		
18. Distance from proposed location*	19. Pro	pposed Depth	20. BLM/I	BIA Bond No. in file	
to nearest well, drilling, completed, 323 feet applied for, on this lease, ft.	12140	feet / 19450 feet	FED: NM	B000801	
	22 1			laa n	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3540 feet	03/31/2	proximate date work will s	tart*	23. Estimated durati 45 days	on
3340 leet	1			45 days	
	24. /	Attachments			
The following, completed in accordance with the requirements of (as applicable)	of Onshor	e Oil and Gas Order No. 1,	, and the H	ydraulic Fracturing r	ule per 43 CFR 3162.3-3
Well plat certified by a registered surveyor. A Drilling Plan.		4. Bond to cover the Item 20 above).	e operations	s unless covered by an	n existing bond on file (so
3. A Surface Use Plan (if the location is on National Forest Syste					
SUPO must be filed with the appropriate Forest Service Office	e).	6. Such other site spe BLM.	ecific infori	nation and/or plans as	may be requested by the
25. Signature	N	Name (Printed/Typed)			Date
(Electronic Submission)	JI	ENNY HARMS / Ph: (80	00) 583-38	366	04/16/2020

Title Regulatory Compliance Professional

Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) Cody Layton / Ph: (575) 234-5959 07/15/2020 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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.



<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u>
811 S. First St., Artesia, NM 88210

Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

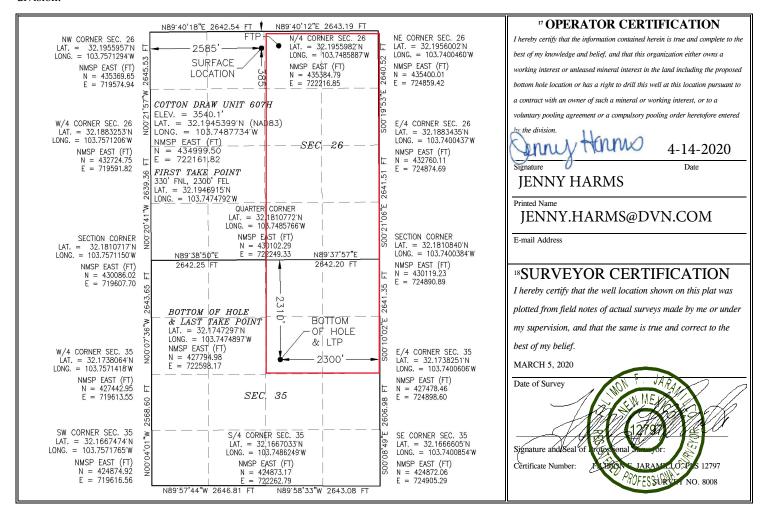
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er 98220 Code	³ Pool Name			
3001547303 98220		Purple Sage Wolfcamp Gas 98220			
⁴ Property Code	⁵ Pr	⁵ Property Name			
300635	COTTO	COTTON DRAW UNIT			
⁷ OGRID No.	8 O _l	8 Operator Name			
6137	DEVON ENERGY PRO	DEVON ENERGY PRODUCTION COMPANY, L.P.			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
C	26	24 S	31 E		385	NORTH	2585	WEST	EDDY	
	" Bottom I		ottom H	ole Location	If Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	35	24 S	31 E		2310	NORTH	2300	EAST	EDDY	
12 Dedicated Acre 480	es 13 Joint	or Infill 14	Consolidation	1 Code	15 Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent	tχ	As Dril	led										
API#													
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.					١		perty N		: AW UNIT	Γ			Well Number 607H
Kick C	Off Point	(KOP)											
UL B	Section 26	Township 24S	Range 31E	Lot	Feet 50 FN	L	From N	I/S	Feet 2300 FEL		n E/W	County EDDY	
Latitu 32.1	ide 1954550	0			Longitu -103		47100)		1		NAD 83	
First 1	Γake Poir	nt (FTP)											
UL B	Section 26	Township 24S	Range 31E	Lot	Feet 330		From NOR		Feet 2300	From	n E/W ST	County EDDY	
Latitu 32.1	ide 194691	5			Longitu 103.7		792					NAD 83	
Last T	ake Poin	t (LTP)	Range	Lot	Feet	Froi	m N/S	Feet	From	ı E/W	Count	.v	
G Latitu	35	24S	31E		2310 Longitu	NO	RTH	230			EDD NAD		
	1 7472 9	7			_	3.7474897 83							
Is this	s well the	defining v	vell for th	e Horiz	zontal Sp	oacin	g Unit?		YES				
Is this	well an	infill well?		NO									
Spacii	ng Unit.	lease prov	ide API if	availab	ole, Oper	rator	Name	and v	vell numbe	er for	Definiı	ng well fo	r Horizontal
API#													
Ope	rator Nai	me:	•			Prop	oerty N	lame					Well Number

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe. NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

GAS	CA	PTI	IRE	PΙ	AN.

Date: April 13, 2020	
□ Original	Devon & OGRID No.: <u>Devon Energy Production Co., L.P.</u> 6137
☐ Amended - Reason for Amendment:	
<u>.</u>	en by the Devon to reduce well/production facility flaring/venting for new completion
(new drill, recomplete to new zone, re-frac) activ	ity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility - Name of facility

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

Well Name	API	Well	Footages	Expected	Flared or	Comments
		Location		MCF/D	Vented	
COTTON DRAW UNIT 601H		LOT D, 26-24S-31E	385 FNL 1130 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 602H		LOT D, 26-24S-31E	385 FNL 1160 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 603H		LOT D, 26-24S-31E	385 FNL 1190 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 604H		LOT D, 26-24S-31E	385 FNL 1220 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 605H		LOT C, 26-24S-31E	385 FNL 2525 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 606H		LOT C, 26-24S-31E	385 FNL 2555 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 607H		LOT C, 26-24S-31E	385 FNL 2585 FWL			COTTON DRAW 26 CTB 2
COTTON DRAW UNIT 608H		LOT C, 26-24S-31E	385 FNL 2615 FWL			COTTON DRAW 26 CTB 2

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if DCP system is in place. The gas produced from production facility is dedicated to <u>DCP</u> and will be connected to <u>DCP</u> low/high pressure gathering system located in Lea County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. <u>Devon</u> provides (periodically) to <u>DCP</u> a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, <u>Devon</u> and <u>DCP</u> have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at <u>DCP</u> Processing Plant located in the reference table. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

• Power Generation – On lease

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

Reference Table:

DCP Plant locations

Artesia Sec. 7, T18S, R28E, Eunice Sec. 5, T21S, R36E Linam Sec. 6, T19S, R37E Zia II Sec. 19, T19S, R32E

Cotton Draw Unit 607H

1. Geologic Formations

TVD of target	12140	Pilot hole depth	N/A
MD at TD:	19450	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	660		
Salt	1010		
Base of Salt	4400		
Delaware	4550		
Bone Spring 1st	9300		
Bone Spring 2nd	9920		
Bone Spring 3rd	11215		
Wolfcamp	11700		

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

2. Casing Program (Primary Design)

		Wt				Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48.0	H40	STC	0	685	0	685
9 7/8	8 5/8	32.0	P110	TLW	0	11215	0	11215
7 7/8	5 1/2	17.0	P110	ВТС	0	19450	0	12140

[•] All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for continengcy casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	534	Surf	13.2	1.44	Lead: Class C Cement + additives
Total	427	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465		13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2 1.44 Squ		Squeeze Lead: Class C Cement + additives
Intermediate	427	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	Squeeze 465		13.2	1.44	Tail: Class H / C + additives
Production	117	9583	9.0	3.3	Lead: Class H /C + additives
Floduction	1041	11583	13.2	1.4	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:				
				Annular		50% of rated working pressure				
Int 1	13-58"	5M		d Ram	X					
IIIt I	15-50	3111		Ram		5M				
				le Ram	X	3111				
			Other*		1					
			Annular (5M)		X	100% of rated working pressure				
5.1.	13-5/8"	403.5	Blind Ram		X	1				
Production		10M	Pipe Ram			101/1				
			Double Ram		X	10M				
			Other*							
			Annular (5M)							
			Blind Ram							
			Pipe Ram]				
	Double Ram]						
			Other*							
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.									
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system									

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

	** - *888 *** - ****-8 * * * * *									
L	Logging, Coring and Testing									
		Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the								
	X	Completion Report and shumitted to the BLM.								
		No logs are planned based on well control or offset log information.								
		Drill stem test? If yes, explain.								
		Coring? If yes, explain.								

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

7. Drilling Conditions

Condition	Specfiy what type and where?				
BH pressure at deepest TVD	6628				
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

encountered	succonnected 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

Cotton Draw Unit 607H

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

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

Attachments	
X	Directional Plan
	Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 26-T24S-R31E Cotton Draw Unit 607H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

26 March, 2020

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

Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E
Well: Cotton Draw Unit 607H

Project:

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

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

Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

stem butum.

Sec 26-T24S-R31E Site 435,369.69 usft Northing: Site Position: Latitude: 32.195596 719,574.99 usft -103.757129 Мар Easting: From: Longitude: Position Uncertainty: Slot Radius: 13-3/16 " 0.31 5.00 ft **Grid Convergence:**

Cotton Draw Unit 607H Well **Well Position** +N/-S 0.00 ft Northing: 434,999.50 usft Latitude: 32.194540 +E/-W 0.00 ft Easting: 722,161.82 usft Longitude: -103.748774 3,540.10 ft **Position Uncertainty** 0.50 ft Wellhead Elevation: **Ground Level:**

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 3/26/2020 59.97 47,616.24017412 IGRF2015 6.73

Permit Plan 1 Design Audit Notes: PROTOTYPE Version: Phase: Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 176.53

Plan Survey Tool Program Date 3/26/2020

Depth From Depth To

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

1 0.00 19,449.90 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

Plan Sections Measured Vertical Dogleg Ruild Turn Inclination +N/-S Depth Azimuth Depth +E/-W Rate Rate Rate TFO (ft) (°) (°) (ft) (ft) (ft) (°/100usft) (°/100usft) (°/100usft) Target (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 2,600.00 0.00 0.00 2,600.00 0.00 0.00 0.00 0.00 0.00 0.00 2.959.48 3.59 50.12 2.959.24 7.23 8.65 1.00 1.00 0.00 50.12 10,993.55 3.59 50.12 10,977.51 330.18 395.23 0.00 0.00 0.00 0.00 11,233.20 0.00 0.00 11,217.00 335.00 401.00 1.50 -1.50 0.00 180.00 11,583.24 0.00 0.00 11,567.04 335.00 401.00 0.00 0.00 0.00 12,483.24 90.00 179.73 12,140.00 -237.95 403.69 10.00 10.00 0.00 179.73 PBHL - Cotton Draw l 19,449.90 90.00 179.73 12,140.00 -7,204.53 436.35 0.00 0.00 0.00 0.00 PBHL - Cotton Draw l

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E
Well: Cotton Draw Unit 607H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
100.00	0.00	0.00	100.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
200.00	0.00	0.00	200.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
300.00	0.00	0.00	300.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
400.00	0.00	0.00	400.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
500.00	0.00	0.00	500.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
600.00	0.00	0.00	600.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
700.00	0.00	0.00	700.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
800.00	0.00	0.00	800.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
900.00	0.00	0.00	900.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,000.00	0.00	0.00	1,000.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,100.00	0.00	0.00	1,100.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,200.00	0.00	0.00	1,200.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,300.00	0.00	0.00	1,300.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,400.00	0.00	0.00	1,400.00	0.00 0.00	0.00	434,999.50 434,999.50	722,161.82 722,161.82	32.194540	-103.748774
1,500.00	0.00	0.00 0.00	1,500.00	0.00	0.00 0.00	434,999.50	722,161.82	32.194540 32.194540	-103.748774 -103.748774
1,600.00 1,700.00	0.00	0.00	1,600.00 1,700.00	0.00	0.00	434,999.50	722,161.82	32.194540 32.194540	-103.748774
1,800.00	0.00	0.00	1,700.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
1,900.00	0.00	0.00	1,900.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,000.00	0.00	0.00	2,000.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,100.00	0.00	0.00	2,100.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,200.00	0.00	0.00	2,200.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,300.00	0.00	0.00	2,300.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,400.00	0.00	0.00	2,400.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,500.00	0.00	0.00	2,500.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,600.00	0.00	0.00	2,600.00	0.00	0.00	434,999.50	722,161.82	32.194540	-103.748774
2,700.00	1.00	50.12	2,699.99	0.56	0.67	435,000.06	722,162.49	32.194542	-103.748771
2,800.00	2.00	50.12	2,799.96	2.24	2.68	435,001.74	722,164.49	32.194546	-103.748765
2,900.00	3.00	50.12	2,899.86	5.03	6.03	435,004.53	722,167.84	32.194554	-103.748754
2,959.48	3.59	50.12	2,959.24	7.23	8.65	435,006.73	722,170.47	32.194560	-103.748746
3,000.00	3.59	50.12	2,999.68	8.86	10.60	435,008.36	722,172.42	32.194564	-103.748739
3,100.00	3.59	50.12	3,099.49	12.88	15.41	435,012.38	722,177.23	32.194575	-103.748724
3,200.00	3.59	50.12	3,199.29	16.90	20.22	435,016.40	722,182.04	32.194586	-103.748708
3,300.00	3.59	50.12	3,299.09	20.92	25.04	435,020.42	722,186.85	32.194597	-103.748692
3,400.00	3.59	50.12	3,398.90	24.94	29.85	435,024.44	722,191.66	32.194608	-103.748677
3,500.00	3.59	50.12	3,498.70	28.96	34.66	435,028.46	722,196.48	32.194619	-103.748661
3,600.00	3.59	50.12	3,598.50	32.98	39.47	435,032.47	722,201.29	32.194630	-103.748645
3,700.00	3.59	50.12	3,698.31	37.00	44.28	435,036.49	722,206.10	32.194641	-103.748630
3,800.00	3.59	50.12	3,798.11	41.01	49.10	435,040.51	722,210.91	32.194652	-103.748614
3,900.00	3.59	50.12	3,897.91	45.03	53.91	435,044.53	722,215.72	32.194663	-103.748599
4,000.00	3.59	50.12	3,997.72	49.05	58.72	435,048.55	722,220.54	32.194674	-103.748583
4,100.00	3.59	50.12	4,097.52	53.07	63.53	435,052.57	722,225.35	32.194685	-103.748567
4,200.00	3.59	50.12	4,197.32	57.09	68.34	435,056.59	722,230.16	32.194696	-103.748552
4,300.00	3.59	50.12	4,297.13	61.11	73.15	435,060.61	722,234.97	32.194707	-103.748536
4,400.00	3.59	50.12	4,396.93	65.13	77.97	435,064.63	722,239.78	32.194718	-103.748520
4,500.00	3.59	50.12	4,496.73	69.15	82.78	435,068.65	722,244.59	32.194729	-103.748505
4,600.00	3.59	50.12	4,596.54	73.17	87.59	435,072.67	722,249.41	32.194740	-103.748489
4,700.00	3.59	50.12	4,696.34	77.19	92.40	435,076.69	722,254.22	32.194751	-103.748474
4,800.00	3.59	50.12	4,796.14	81.21	97.21	435,080.71	722,259.03	32.194762	-103.748458
4,900.00	3.59	50.12	4,895.95	85.23	102.02	435,084.73	722,263.84	32.194773	-103.748442
5,000.00	3.59	50.12	4,995.75	89.25	106.84	435,088.75	722,268.65	32.194784	-103.748427
5,100.00	3.59	50.12	5,095.55	93.27	111.65	435,092.77	722,273.46	32.194795	-103.748411
5,200.00	3.59	50.12 50.12	5,195.36 5,205.16	97.29 101.31	116.46 121.27	435,096.79	722,278.28	32.194806	-103.748395 -103.748380
5,300.00	3.59	50.12	5,295.16	101.31	121.27	435,100.81	722,283.09	32.194817	-103.740380

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E
Well: Cotton Draw Unit 607H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.00	3.59	50.12	5,394.96	105.33	126.08	435,104.83	722,287.90	32.194828	-103.748364
5,500.00	3.59	50.12	5,494.77	109.35	130.90	435,108.85	722,292.71	32.194839	-103.748349
5,600.00	3.59	50.12	5,594.57	113.37	135.71	435,112.87	722,297.52	32.194850	-103.748333
5,700.00	3.59	50.12	5,694.37	117.39	140.52	435,116.89	722,302.33	32.194861	-103.748317
5,800.00	3.59	50.12	5,794.18	121.41	145.33	435,120.91	722,307.15	32.194872	-103.748302
5,900.00	3.59	50.12	5,893.98	125.43	150.14	435,124.93	722,311.96	32.194883	-103.748286
6,000.00	3.59	50.12	5,993.78	129.45	154.95	435,128.95	722,316.77	32.194893	-103.748270
6,100.00	3.59	50.12	6,093.59	133.47	159.77	435,132.97	722,321.58	32.194904	-103.748255
6,200.00	3.59	50.12	6,193.39	137.49	164.58	435,136.99	722,326.39	32.194915	-103.748239
6,300.00	3.59	50.12	6,293.19	141.51	169.39	435,141.01	722,331.21	32.194926	-103.748224
6,400.00	3.59	50.12	6,393.00	145.53	174.20	435,145.03	722,336.02	32.194937	-103.748208
6,500.00	3.59	50.12	6,492.80	149.55	179.01	435,149.05	722,340.83	32.194948	-103.748192
6,600.00	3.59	50.12	6,592.60	153.57	183.82	435,153.07	722,345.64	32.194959	-103.748177
6,700.00	3.59	50.12	6,692.40	157.59	188.64	435,157.09	722,350.45	32.194970	-103.748161
6,800.00	3.59	50.12	6,792.21	161.61	193.45	435,161.11	722,355.26	32.194981	-103.748145
6,900.00	3.59	50.12	6,892.01	165.63	198.26	435,165.13	722,360.08	32.194992	-103.748130
7,000.00	3.59	50.12	6,991.81	169.65	203.07	435,169.15	722,364.89	32.195003	-103.748114
7,100.00	3.59	50.12	7,091.62	173.67	207.88	435,173.17	722,369.70	32.195014	-103.748099
7,200.00	3.59	50.12	7,191.42	177.69	212.70	435,177.19	722,374.51	32.195025	-103.748083
7,300.00	3.59	50.12	7,291.22	181.71	217.51	435,181.21	722,379.32	32.195036	-103.748067
7,400.00	3.59	50.12	7,391.03	185.73	222.32	435,185.23	722,384.13	32.195047	-103.748052
7,500.00	3.59	50.12	7,490.83	189.75	227.13	435,189.25	722,388.95	32.195058	-103.748036
7,600.00	3.59	50.12	7,590.63	193.77	231.94	435,193.27	722,393.76	32.195069	-103.748020
7,700.00	3.59	50.12	7,690.44	197.79	236.75	435,197.29	722,398.57	32.195080	-103.748005
7,800.00	3.59	50.12	7,790.24	201.81	241.57	435,201.31	722,403.38	32.195091	-103.747989
7,900.00	3.59	50.12	7,890.04	205.83	246.38	435,205.33	722,408.19	32.195102	-103.747974 -103.747958
8,000.00	3.59	50.12	7,989.85	209.85	251.19	435,209.35	722,413.01	32.195113	
8,100.00	3.59 3.59	50.12 50.12	8,089.65	213.87 217.89	256.00 260.81	435,213.37	722,417.82 722,422.63	32.195124	-103.747942
8,200.00 8,300.00	3.59	50.12	8,189.45 8,289.26	221.91	265.63	435,217.39 435,221.41	722,427.44	32.195135 32.195146	-103.747927 -103.747911
8,400.00	3.59	50.12	8,389.06	225.93	270.44	435,225.43	722,432.25	32.195157	-103.747911
8,500.00	3.59	50.12	8,488.86	229.95	275.25	435,229.45	722,437.06	32.195168	-103.747880
8,600.00	3.59	50.12	8,588.67	233.97	280.06	435,229.45	722,441.88	32.195179	-103.747864
8,700.00	3.59	50.12	8,688.47	237.99	284.87	435,237.48	722,446.69	32.195190	-103.747849
8,800.00	3.59	50.12	8,788.27	242.01	289.68	435,241.50	722,451.50	32.195201	-103.747833
8,900.00	3.59	50.12	8,888.08	246.03	294.50	435,245.52	722,456.31	32.195212	-103.747817
9,000.00	3.59	50.12	8,987.88	250.04	299.31	435,249.54	722,461.12	32.195223	-103.747802
9,100.00	3.59	50.12	9,087.68	254.06	304.12	435,253.56	722,465.93	32.195234	-103.747786
9,200.00	3.59	50.12	9,187.49	258.08	308.93	435,257.58	722,470.75	32.195245	-103.747770
9,300.00	3.59	50.12	9,287.29	262.10	313.74	435,261.60	722,475.56	32.195256	-103.747755
9,400.00	3.59	50.12	9,387.09	266.12	318.55	435,265.62	722,480.37	32.195267	-103.747739
9,500.00	3.59	50.12	9,486.90	270.14	323.37	435,269.64	722,485.18	32.195278	-103.747724
9,600.00	3.59	50.12	9,586.70	274.16	328.18	435,273.66	722,489.99	32.195289	-103.747708
9,700.00	3.59	50.12	9,686.50	278.18	332.99	435,277.68	722,494.81	32.195300	-103.747692
9,800.00	3.59	50.12	9,786.31	282.20	337.80	435,281.70	722,499.62	32.195311	-103.747677
9,900.00	3.59	50.12	9,886.11	286.22	342.61	435,285.72	722,504.43	32.195322	-103.747661
10,000.00	3.59	50.12	9,985.91	290.24	347.43	435,289.74	722,509.24	32.195333	-103.747645
10,100.00	3.59	50.12	10,085.72	294.26	352.24	435,293.76	722,514.05	32.195344	-103.747630
10,200.00	3.59	50.12	10,185.52	298.28	357.05	435,297.78	722,518.86	32.195355	-103.747614
10,300.00	3.59	50.12	10,285.32	302.30	361.86	435,301.80	722,523.68	32.195366	-103.747599
10,400.00	3.59	50.12	10,385.12	306.32	366.67	435,305.82	722,528.49	32.195377	-103.747583
10,500.00	3.59	50.12	10,484.93	310.34	371.48	435,309.84	722,533.30	32.195387	-103.747567
10,600.00	3.59	50.12	10,584.73	314.36	376.30	435,313.86	722,538.11	32.195398	-103.747552
10,700.00	3.59	50.12	10,684.53	318.38	381.11	435,317.88	722,542.92	32.195409	-103.747536
10,800.00	3.59	50.12	10,784.34	322.40	385.92	435,321.90	722,547.73	32.195420	-103.747520

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E
Well: Cotton Draw Unit 607H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

Grid

Planned Survey	,								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,900.00	3.59	50.12	10,884.14	326.42	390.73	435,325.92	722,552.55	32.195431	-103.747505
10,993.55	3.59	50.12	10,977.51	330.18	395.23	435,329.68	722,557.05	32.195442	-103.747490
11,000.00	3.50	50.12	10,983.94	330.44	395.54	435,329.94	722,557.35	32.195442	-103.747489
11,100.00	2.00	50.12	11,083.83	333.51	399.22	435,333.01	722,561.03	32.195451	-103.747477
11,200.00	0.50	50.12	11,183.80	334.91	400.89	435,334.41	722,562.70	32.195455	-103.747472
11,233.20	0.00	0.00	11,217.00	335.00	401.00	435,334.50	722,562.82	32.195455	-103.747471
11,300.00	0.00	0.00	11,283.80	335.00	401.00	435,334.50	722,562.82	32.195455	-103.747471
11,400.00	0.00	0.00	11,383.80	335.00	401.00	435,334.50	722,562.82	32.195455	-103.747471
11,500.00	0.00	0.00	11,483.80	335.00	401.00	435,334.50	722,562.82	32.195455	-103.747471
11,583.24	0.00	0.00	11,567.04	335.00	401.00	435,334.50	722,562.82	32.195455	-103.747471
KOP @ 1	11583' MD, 50	' FNL, 2300' F	EL						
11,600.00	1.68	179.73	11,583.80	334.75	401.00	435,334.25	722,562.82	32.195454	-103.747471
11,700.00	11.68	179.73	11,682.99	323.14	401.06	435,322.64	722,562.87	32.195422	-103.747472
11,800.00	21.68	179.73	11,778.67	294.49	401.19	435,293.98	722,563.01	32.195343	-103.747472
11,900.00	31.68	179.73	11,867.91	249.65	401.40	435,249.15	722,563.22	32.195220	-103.747472
12,000.00	41.68	179.73	11,948.01	190.00	401.68	435,189.50	722,563.50	32.195056	-103.747472
12,100.00	51.68	179.73	12,016.54	117.34	402.02	435,116.84	722,563.84	32.194857	-103.747472
12,176.00	59.28	179.73	12,059.58	54.77	402.31	435,054.27	722,564.13	32.194685	-103.747472
FTP @ 1:	2176' MD, 330)' FNL, 2300'	FEL						
12,200.00	61.68	179.73	12,071.40	33.89	402.41	435,033.39	722,564.23	32.194627	-103.747472
12,300.00	71.68	179.73	12,110.95	-57.82	402.84	434,941.68	722,564.66	32.194375	-103.747472
12,400.00	81.68	179.73	12,133.96	-155.00	403.30	434,844.50	722,565.11	32.194108	-103.747473
12,483.24	90.00	179.73	12,140.00	-237.95	403.69	434,761.55	722,565.50	32.193880	-103.747473
12,500.00	90.00	179.73	12,140.00	-254.71	403.77	434,744.79	722,565.58	32.193834	-103.747473
12,600.00	90.00	179.73	12,140.00	-354.71	404.23	434,644.79	722,566.05	32.193559	-103.747473
12,700.00	90.00	179.73	12,140.00	-454.71	404.70	434,544.79	722,566.52	32.193284	-103.747473
12,800.00	90.00	179.73	12,140.00	-554.71	405.17	434,444.79	722,566.99	32.193009	-103.747474
12,900.00	90.00	179.73	12,140.00	-654.71	405.64	434,344.80	722,567.46	32.192734	-103.747474
13,000.00	90.00	179.73	12,140.00	-754.70	406.11	434,244.80	722,567.92	32.192459	-103.747474
13,100.00	90.00	179.73	12,140.00	-854.70	406.58	434,144.80	722,568.39	32.192185	-103.747474
13,200.00	90.00	179.73	12,140.00	-954.70	407.05	434,044.80	722,568.86	32.191910	-103.747475
13,300.00	90.00	179.73	12,140.00	-1,054.70	407.52	433,944.80	722,569.33	32.191635	-103.747475
13,400.00	90.00	179.73	12,140.00	-1,154.70	407.98	433,844.80	722,569.80	32.191360	-103.747475
13,500.00	90.00	179.73	12,140.00	-1,254.70	408.45	433,744.80	722,570.27	32.191085	-103.747475
13,600.00	90.00	179.73	12,140.00	-1,354.70	408.92	433,644.80	722,570.74	32.190810	-103.747476
13,700.00	90.00	179.73	12,140.00	-1,454.70	409.39	433,544.81	722,571.21	32.190535	-103.747476
13,800.00	90.00	179.73	12,140.00	-1,554.70	409.86	433,444.81	722,571.68	32.190260	-103.747476
13,900.00	90.00	179.73	12,140.00	-1,654.69	410.33	433,344.81	722,572.14	32.189985	-103.747476
14,000.00	90.00	179.73	12,140.00	-1,754.69	410.80	433,244.81	722,572.61	32.189711	-103.747477
14,100.00	90.00	179.73	12,140.00	-1,854.69	411.27	433,144.81	722,573.08	32.189436	-103.747477
14,200.00	90.00	179.73	12,140.00	-1,954.69	411.74	433,044.81	722,573.55	32.189161	-103.747477
14,300.00	90.00	179.73	12,140.00	-2,054.69	412.20	432,944.81	722,574.02	32.188886	-103.747477
14,400.00	90.00	179.73	12,140.00	-2,154.69	412.67	432,844.81	722,574.49	32.188611	-103.747478
14,500.00	90.00	179.73	12,140.00	-2,254.69	413.14	432,744.82	722,574.96	32.188336	-103.747478
14,600.00	90.00	179.73	12,140.00	-2,354.69	413.61	432,644.82	722,575.43	32.188061	-103.747478
14,700.00	90.00	179.73	12,140.00	-2,454.69	414.08	432,544.82	722,575.90	32.187786	-103.747478
14,800.00	90.00	179.73	12,140.00	-2,554.69	414.55	432,444.82	722,576.36	32.187512	-103.747479
14,900.00	90.00	179.73	12,140.00	-2,654.68	415.02	432,344.82	722,576.83	32.187237	-103.747479
15,000.00	90.00	179.73	12,140.00	-2,754.68	415.49	432,244.82	722,577.30	32.186962	-103.747479
15,100.00	90.00	179.73	12,140.00	-2,854.68	415.96	432,144.82	722,577.77	32.186687	-103.747479
15,200.00	90.00	179.73	12,140.00	-2,954.68	416.42	432,044.82	722,578.24	32.186412	-103.747480
15,300.00	90.00	179.73	12,140.00	-3,054.68	416.89	431,944.83	722,578.71	32.186137	-103.747480
15,400.00	90.00	179.73	12,140.00	-3,154.68	417.36	431,844.83	722,579.18	32.185862	-103.747480
15,500.00	90.00	179.73	12,140.00	-3,254.68	417.83	431,744.83	722,579.65	32.185587	-103.747480

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E
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Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

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
15,600.00	90.00	179.73	12,140.00	-3,354.68	418.30	431,644.83	722,580.12	32.185312	-103.747481
15,700.00	90.00	179.73	12,140.00	-3,454.68	418.77	431,544.83	722,580.58	32.185038	-103.747481
15,800.00	90.00	179.73	12,140.00	-3,554.67	419.24	431,444.83	722,581.05	32.184763	-103.747481
15,900.00	90.00	179.73	12,140.00	-3,654.67	419.71	431,344.83	722,581.52	32.184488	-103.747481
16,000.00	90.00	179.73	12,140.00	-3,754.67	420.18	431,244.84	722,581.99	32.184213	-103.747482
16,100.00	90.00	179.73	12,140.00	-3,854.67	420.64	431,144.84	722,582.46	32.183938	-103.747482
16,200.00	90.00	179.73	12,140.00	-3,954.67	421.11	431,044.84	722,582.93	32.183663	-103.747482
16,300.00	90.00	179.73	12,140.00	-4,054.67	421.58	430,944.84	722,583.40	32.183388	-103.747482
16,400.00	90.00	179.73	12,140.00	-4,154.67	422.05	430,844.84	722,583.87	32.183113	-103.747483
16,500.00	90.00	179.73	12,140.00	-4,254.67	422.52	430,744.84	722,584.34	32.182839	-103.747483
16,600.00	90.00	179.73	12,140.00	-4,354.67	422.99	430,644.84	722,584.80	32.182564	-103.747483
16,700.00	90.00	179.73	12,140.00	-4,454.66	423.46	430,544.84	722,585.27	32.182289	-103.747483
16,800.00	90.00	179.73	12,140.00	-4,554.66	423.93	430,444.85	722,585.74	32.182014	-103.747483
16,900.00	90.00	179.73	12,140.00	-4,654.66	424.40	430,344.85	722,586.21	32.181739	-103.747484
17,000.00	90.00	179.73	12,140.00	-4,754.66	424.86	430,244.85	722,586.68	32.181464	-103.747484
17,100.00	90.00	179.73	12,140.00	-4,854.66	425.33	430,144.85	722,587.15	32.181189	-103.747484
17,145.00	90.00	179.73	12,140.00	-4,899.66	425.54	430,099.85	722,587.36	32.181066	-103.747484
Cross se	ction @ 1714	5' MD, 0' FNL	., 2300' FEL						
17,200.00	90.00	179.73	12,140.00	-4,954.66	425.80	430,044.85	722,587.62	32.180914	-103.747484
17,300.00	90.00	179.73	12,140.00	-5,054.66	426.27	429,944.85	722,588.09	32.180639	-103.747485
17,400.00	90.00	179.73	12,140.00	-5,154.66	426.74	429,844.85	722,588.55	32.180365	-103.747485
17,500.00	90.00	179.73	12,140.00	-5,254.66	427.21	429,744.85	722,589.02	32.180090	-103.747485
17,600.00	90.00	179.73	12,140.00	-5,354.65	427.68	429,644.86	722,589.49	32.179815	-103.747485
17,700.00	90.00	179.73	12,140.00	-5,454.65	428.15	429,544.86	722,589.96	32.179540	-103.747486
17,800.00	90.00	179.73	12,140.00	-5,554.65	428.62	429,444.86	722,590.43	32.179265	-103.747486
17,900.00	90.00	179.73	12,140.00	-5,654.65	429.08	429,344.86	722,590.90	32.178990	-103.747486
18,000.00	90.00	179.73	12,140.00	-5,754.65	429.55	429,244.86	722,591.37	32.178715	-103.747486
18,100.00	90.00	179.73	12,140.00	-5,854.65	430.02	429,144.86	722,591.84	32.178440	-103.747487
18,200.00	90.00	179.73	12,140.00	-5,954.65	430.49	429,044.86	722,592.31	32.178166	-103.747487
18,300.00	90.00	179.73	12,140.00	-6,054.65	430.96	428,944.87	722,592.77	32.177891	-103.747487
18,400.00	90.00	179.73	12,140.00	-6,154.65	431.43	428,844.87	722,593.24	32.177616	-103.747487
18,500.00	90.00	179.73	12,140.00	-6,254.64	431.90	428,744.87	722,593.71	32.177341	-103.747488
18,600.00	90.00	179.73	12,140.00	-6,354.64	432.37	428,644.87	722,594.18	32.177066	-103.747488
18,700.00	90.00	179.73	12,140.00	-6,454.64	432.83	428,544.87	722,594.65	32.176791	-103.747488
18,800.00	90.00	179.73	12,140.00	-6,554.64	433.30	428,444.87	722,595.12	32.176516	-103.747488
18,900.00	90.00	179.73	12,140.00	-6,654.64	433.77	428,344.87	722,595.59	32.176241	-103.747489
19,000.00	90.00	179.73	12,140.00	-6,754.64	434.24	428,244.87	722,596.06	32.175967	-103.747489
19,100.00	90.00	179.73	12,140.00	-6,854.64	434.71	428,144.88	722,596.53	32.175692	-103.747489
19,200.00	90.00	179.73	12,140.00	-6,954.64	435.18	428,044.88	722,596.99	32.175417	-103.747489
19,300.00	90.00	179.73	12,140.00	-7,054.64	435.65	427,944.88	722,597.46	32.175142	-103.747490
19,400.00	90.00	179.73	12,140.00	-7,154.63	436.12	427,844.88	722,597.93	32.174867	-103.747490
19,449.89	90.00	179.73	12,140.00	-7,204.52	436.35	427,794.99	722,598.17	32.174730	-103.747490
PBHL & I	LTP @ 19450'	MD, 2310' FN	NL, 2300' FEL						
19,449.90	90.00	179.73	12,140.00	-7,204.53	436.35	427,794.98	722,598.17	32.174730	-103.747490

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 - Cotton Draw Uni - plan misses target of - Point	0.00 center by 7217	0.00 7.74ft at 0.00	0.00 ft MD (0.00	-7,204.53 TVD, 0.00 N,	436.35 0.00 E)	427,794.98	722,598.17	32.174730	-103.747490

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 26-T24S-R31E

Well: Cotton Draw Unit 607H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Cotton Draw Unit 607H

RKB @ 3565.10ft (Original Well Elev) RKB @ 3565.10ft (Original Well Elev)

Grid

Plan Annotations				
Measured			dinates	
Depth	Depth	+N/-S	+E/-W	Comment
(ft)	(ft)	(ft)	(ft)	
11,583.24	12,059.58	335.00	401.00	KOP @ 11583' MD, 50' FNL, 2300' FEL
12,176.00		54.77	402.31	FTP @ 12176' MD, 330' FNL, 2300' FEL
17,145.00	,	-4,899.66	425.54	Cross section @ 17145' MD, 0' FNL, 2300' FEL
19,449.89		-7,204.52	436.35	PBHL & LTP @ 19450' MD, 2310' FNL, 2300' FEL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

LEASE NO.: | NMNM0012121

LOCATION: | Section 26, T.24 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Cotton Draw Unit 601H

SURFACE HOLE FOOTAGE: 385'/N & 1130'/W **BOTTOM HOLE FOOTAGE** 2314'/N & 400'/W

WELL NAME & NO.: Cotton Draw Unit 602H

SURFACE HOLE FOOTAGE: 385'/N & 1160'/W **BOTTOM HOLE FOOTAGE** 2314'/N & 450'/W

WELL NAME & NO.: Cotton Draw Unit 603H

SURFACE HOLE FOOTAGE: 385'/N & 1190'/W **BOTTOM HOLE FOOTAGE** 2314'/N & 990'/W

WELL NAME & NO.: Cotton Draw Unit 604H

SURFACE HOLE FOOTAGE: 385'/N & 1220'/W **BOTTOM HOLE FOOTAGE** 2314'/N & 1650'/W

WELL NAME & NO.: Cotton Draw Unit 605H

SURFACE HOLE FOOTAGE: 385'/N & 2525'/W **BOTTOM HOLE FOOTAGE** 2310'/N & 1750'/W

WELL NAME & NO.: Cotton Draw Unit 606H

SURFACE HOLE FOOTAGE: 385'/N & 2555'/W **BOTTOM HOLE FOOTAGE** 2310'/N & 2300'/W

WELL NAME & NO.: Cotton Draw Unit 608H

SURFACE HOLE FOOTAGE: 385'/N & 2615'/W **BOTTOM HOLE FOOTAGE** 2310'/N & 2200'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 775 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

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

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

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

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

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. 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 **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

GENERAL REQUIREMENTS

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

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

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

A. CASING

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

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

Hydrogen Sulfide (H₂S) Contingency Plan

For

Cotton Draw Unit 607H

Sec-26 T-24S R-31E 385' FNL & 2585' FWL LAT. = 32.1945399' N (NAD83) LONG = 103.7487734' W

Eddy County NM

Cotton Draw Unit 607H This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor. **Location Road** 23 27 **Cotton Draw Unit 607H** Assumed 100 ppm ROE 3000' (

100 ppm H2S concentration shall trigger activation of this plan.

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit	Hazardous 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:

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

7. Well testing:

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

Devon En	ergy Corp. Company Call List	
Drilling Su	pervisor – Basin – Mark Kramer	405-823-4796
EHS Profe	essional – Laura Wright	405-439-8129
Agency	Call List	
<u>Lea</u>	Hobbs	
County	Lea County Communication Authority	393-3981
<u>(575)</u>	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
Eddy	Carlsbad	
County	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	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	
	Wild Well Control	(281) 784-4700
	Cudd Pressure Control (915) 699- 0139	(915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
GPS position:	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	



