Form 3160-3 (June 2015)

# LIMITED STATES

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 201

UNITED STATES
DEPARTMENT OF THE INTERIOR
DUDEAU OF LAND MANACEMENT

NMNM112269	

5. Lease Serial No.

BUKEAU OF LAND MANA	AGEMEN.	I		INIVIINIVI I 12203			
APPLICATION FOR PERMIT TO D	6. If Indian, Allotee or Tribe Name						
a. Type of work:	EENTER			7. If Unit or CA Agre	ement, Na	me and No.	
b. Type of Well: Oil Well Gas Well 🗸 Ot	ther OTH			0.7			
	ngle Zone	Multiple Zone		8. Lease Name and W		214	
c. Type of Completion Hydraulic Fracturing Sil	ngie Zone [	Multiple Zone		WYATT EARP 20-1	/ FED CO	JM	
				dans.			
. Name of Operator				9. API Well No.			
DEVON ENERGY PRODUCTION COMPANY LP				3001547507		Willow Lake	
a. Address	3b. Phone N	No. (include area cod	le)	10. Field and Pool, or	Explorato	ory Spring West	
333 West Sheridan Avenue, Oklahoma City, OK 73102	(800) 583-3			PURPLE SAGE WO			
Location of Well (Report location clearly and in accordance w	vith any State	requirements.*)		11. Sec., T. R. M. or I	Blk. and Su	urvey or Area	
At surface SESE / 364 FSL / 572 FEL / LAT 32.1964 /	LONG -104	205896		SEC 20/T24S/R27E	/NMP		
At proposed prod. zone NENE / 20 FNL / 1310 FEL / LAT	Г 32.224437	/ LONG -104.2082	299				
4. Distance in miles and direction from nearest town or post offi	.ce*			12. County or Parish EDDY		3. State	
5. Distance from proposed* 364 feet	16. No of a	cres in lease	17. Spaci	ng Unit dedicated to the	is well		
location to nearest 364 feet property or lease line, ft.	2080		640.0				
(Also to nearest drig. unit line, if any)	2000		040.0				
8. Distance from proposed location*	19. Propose	ed Depth	20. BLM.	M/BIA Bond No. in file			
to nearest well, drilling, completed, applied for, on this lease, ft.	8880 feet /	19205 feet	FED: NN	/IB000801			
1. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*			23. Estimated duration			
3298 feet	08/31/2020		45 days				
	24. Attac	chments					
The following, completed in accordance with the requirements of as applicable)	Onshore Oil	and Gas Order No.	1, and the I	Hydraulic Fracturing ru	le per 43 C	CFR 3162.3-3	
. Well plat certified by a registered surveyor. . A Drilling Plan.		4. Bond to cover the Item 20 above).	ne operation	ns unless covered by an	existing bo	ond on file (see	
A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office		<ul><li>5. Operator certific</li><li>6. Such other site sp</li><li>BLM.</li></ul>		rmation and/or plans as r	nay be requ	uested by the	
5. Signature		(Printed/Typed)			Date		
Electronic Submission)	ERIN	WORKMAN / Ph:	(800) 583	-3866	08/27/201	19	
litle							
Regulatory Compliance Professional				1			
approved by (Signature) (Electronic Submission)		(Printed/Typed)	224 5050		Date 09/09/202	20	
LICUIUIIU SUDIIIISSIUII)	I CODV	Lavion / Pn: (5/5)	Z34-5959		しざけしざけとしと	<u>.</u> U	

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.

Carlsbad Field Office

Office

Conditions of approval, if any, are attached.

Assistant Field Manager Lands & Minerals

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.

Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel close

Will require a directional survey with the C-104

(Continued on page 2)

Title

Approval Date: 09/09/2020

Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string

KP 9/24/2020 GEO Review

\*(Instructions on page 2)

Entered - KMS NMOCD

DISTRICT I
1625 N. FEENCH DR., HOBBS, NM 88240
Phone: (676) 393-6161 Fax: (676) 393-6720
DISTRICT II
811 S. FIRST ST., ARTESIA, NM 88210
Phone: (676) 748-1283 Fax: (576) 748-9720

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

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

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

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PL	WELL	LOCATION	AND	ACREAGE	DEDICATION	PLAT
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	WEEL BOOMING THIS	HONDRIGH DEDICHTION I DAN					
API Number	Pool Code	Pool Name					
3001547507	96415	WILLOW LAKE; BONE SPRING, WEST					
Property Code	Prop	erty Name	Well Number				
329720	WYATT EARP	20-17 FED COM	333H				
OGRID No.	Oper	ator Name	Elevation				
6137	DEVON ENERGY PRO	DUCTION COMPANY, L.P.	3297.5'				

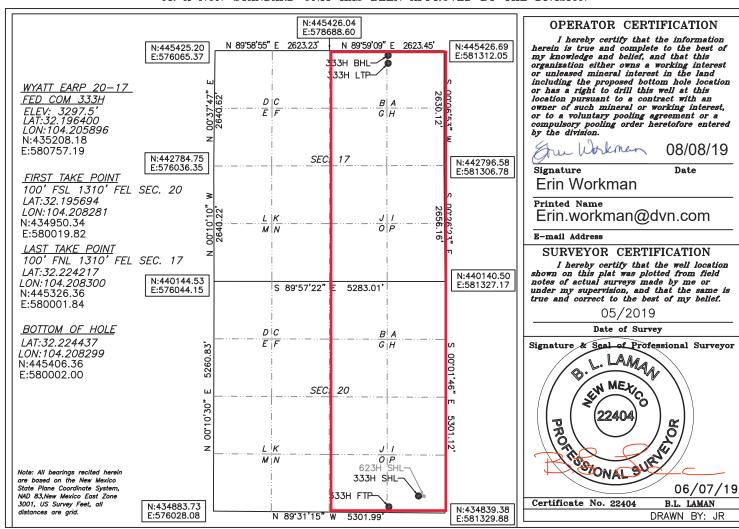
#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Р	20	24-S	27-E		364	SOUTH	572.5	EAST	EDDY

#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Townshi	p Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Α	17	24-9	S 27-	Ξ	20	NORTH	1310	EAST	EDDY
Dedicated Acre	s Joint o	r Infill	Consolidatio	n Code 0	rder 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



Inten	t	As Dril	led											
API#														
DE\	rator Nar /ON EN MPANY	IERGY F	PRODUC	CTION	l		perty Nar ATT EA			-17 F	ED (	СОМ		Well Number 333H
w.l.c	S.C. D	(VOD)												
UL	Off Point Section		Dange	Lot	Foot		From N/S		Feet		- Fran	n E/W	Country	
UL	20	Township 24S	Range 27E	Lot	Feet 50		SOUT		131	10		ST	County	EDDY
Latitu	ide 32.195	5540			Longitu		.208821				•		NAD	83
First 7	Γake Poir	nt (FTP)												
UL P	Section 20	Township 24-S	Range 27-E	Lot	Feet 100		From N/S		Feet 1310	)	Fron	n E/W ST	County	,
Latitu	ide 195694	1			Longitu 104.2		281						NAD 83	
Last T	ake Poin	Township	Range	Lot	Feet		,	eet		From		Count		
A Latitu	17	24-S	27-E		100 Longitu		DRTH 1	31	0	EAS	T	ED[	DY	
	224217	7			104.		300					83		
Is this	s well the	defining v	vell for th	e Horiz	ontal S <sub>i</sub>	pacin	g Unit?	ſ	YES	]		I		
								_		_				
Is this	well an	infill well?		NO	]									
	l is yes p ng Unit.	lease prov	ide API if	availab	le, Ope	rator	Name an	d v	vell nı	umbe	r for I	Definir	ng well fo	r Horizontal
API#														
Ope	rator Nai	me:	ı			Pro	perty Nai	me:						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 CAPTURE PLAN

Date: <u>08/15/2019</u>		
x Original	Devon & OGRID No.: <u>Devon Energy Prod Co., LP</u>	(6137)

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

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 Location (ULSTR)	Footages	Expect ed MCE/D	Flared/ Vented	Comments
Wyatt Earp 20-17 Fed Com 331H		Sec 20, T24S, R27E	342 FNL, 263 FWL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 332H		Sec 29, T24S, R27E	514 FNL, 1995FEL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 333H		Sec 20, T24S, R27E	364 FSL572.5 FEL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 621H		Sec 20, T24S, R27E	342 FSL, 266 FWL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 622H		Sec 29, T24S, R27E	514 FNL, 1965 FEL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 623H		Sec 20, T24S, R27E	364 FSL, 542.5 FEL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 733H		Sec 29, T24S, R27E	664 FNL, 1995 FEL			Huckleberry 29 CTB 2
Wyatt Earp 20-17 Fed Com 734H		Sec 29, T24S, R27E	664 FNL, 1965 FEL			Huckleberry 29 CTB 2

#### **Gathering System and Pipeline Notification**

#### 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 <u>Devon's</u>

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
  - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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

Devon proposes using 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.

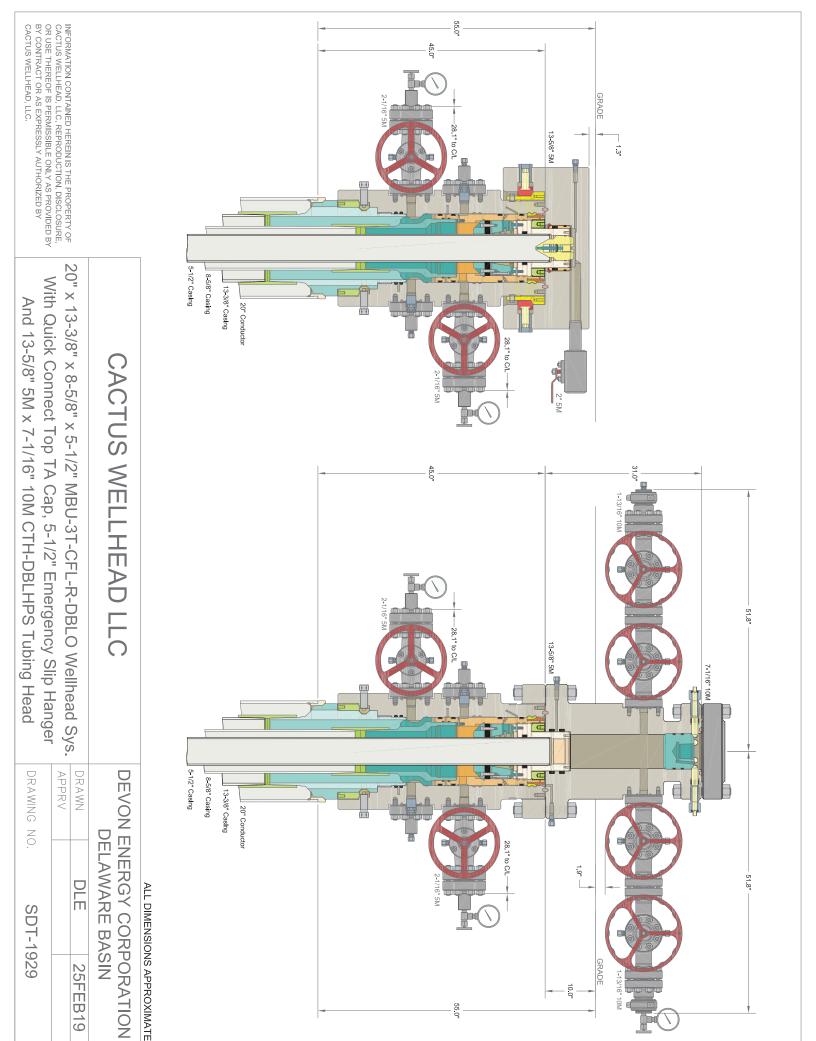
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.



### Devon Energy APD VARIANCE DATA

**OPERATOR NAME:** Devon Energy

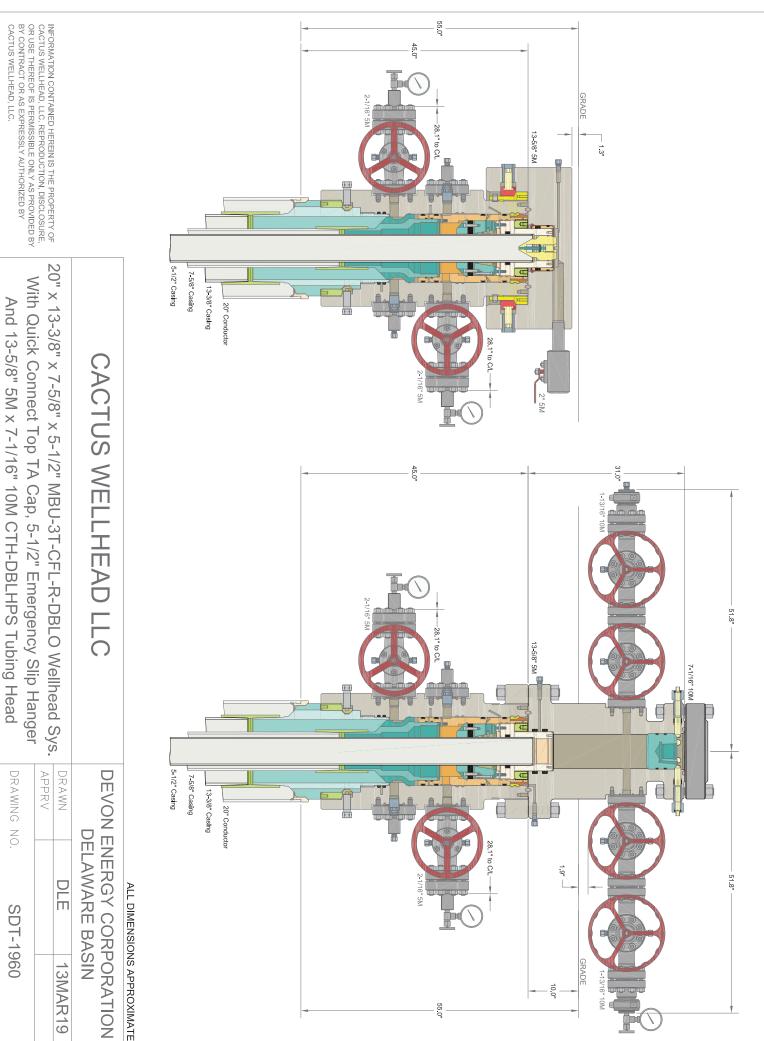
#### 1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

#### 2. Description of Operations

- 1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
  - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
  - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- **5.** Drilling operation will be performed with the big 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 BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.



OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY BY CONTRACT OR AS EXPRESSLY AUTHORIZED BY

# Wyatt Earp 20-17 Fed Com 333H

### 1. Geologic Formations

TVD of target	8880	Pilot hole depth	N/A
MD at TD:	19205	Deepest expected fresh water	

#### Basin

Donth	Weter/Mineral	
		Hazards*
from KB	Zone?	
188		
492		
2012		
2200		
7343		
8595		
8932		
	492 2012 2200 7343 8595	(TVD) Bearing/Target

<sup>\*</sup>H2S, water flows, loss of circulation, abnormal pressures, etc.

2. Casing Program (Primary Design)

Hole Size	Casing	Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Conn	Collapse	Burst	Tension
17 1/2	0	213 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	8595 TVD	7 5/8	29.7	P110	Flushmax III	1.125	1.25	1.6
6 3/4	0	TD	5 1/2	20.0	P110	Vam SG	1.125	1.25	1.6
				BLM N	Minimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet

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

Casing Program (Alternative Design)

Hole Size		Interval	Csg. Size	Wt	Grade	Conn	Min SF	Min SF	Min SF
Hole Size	From	To	Csg. Size	(PPF)	Graue	Conn	Collapse	Burst	Tension
17 1/2	0	213 TVD	13 3/8	48.0	H40	STC	1.125	1.25	1.6
9 7/8	0	8595 TVD	8 5/8	32.0	P110	TLW	1.125	1.25	1.6
7 7/8	0	TD	5 1/2	17.0	P110	BTC	1.125	1.25	1.6
				BLM Minimum Safety Factor		1.125	1	1.6 Dry 1.8 Wet	

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

## Wyatt Earp 20-17 Fed Com 333H

	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
or the easing.	
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 <sup>rd</sup> 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 <sup>nd</sup> 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 (Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	193	Surf	13.2	1.44	Lead: Class C Cement + additives
T 4.1	411	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
	665	Surf	9	3.27	1st stage Lead: Class C Cement + additives
Int 1 Two Stage	93	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives
w/ DV @ TVD of Delaware	159	Surf	9	3.27	2nd stage Lead: Class C Cement + additives
	93	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives
Int 1	As Needed	Surf	9	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	411	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	783	4000' above shoe	13.2	1.44	Tail: Class H / C + additives
Production	63	6365	9.0	3.3	Lead: Class H /C + additives
Production	692	8365	13.2	1.4	Tail: Class H / C + additives

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

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

3. Cementing Program (Alternative Design)

3. Cementing Frogram (	nm (Alternative Design)							
Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description			
Surface	193	Surf	13.2	1.44	Lead: Class C Cement + additives			
T 4.1	251	Surf	9	3.27	Lead: Class C Cement + additives			
Int 1	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives			
	390	Surf	9	3.27	1st stage Lead: Class C Cement + additives			
Int 1 Two Stage	55	500' above shoe	13.2	1.44	1st stage Tail: Class H / C + additives			
w DV @ ∼4500	103	Surf	9	3.27	2nd stage Lead: Class C Cement + additives			
	55	500' above DV	13.2	1.44	2nd stage Tail: Class H / C + additives			
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives			
Intermediate	251	Surf	9	3.27	Lead: Class C Cement + additives			
Squeeze	465	4000' above shoe	13.2	1.44	Tail: Class H / C + additives			
Int 1 (10.625" Hole Size)	397	Surf	9	3.27	Lead: Class C Cement + additives			
int 1 (10.025 110te Size)	768	4000' above shoe	13.2	1.44	Tail: Class H / C + additives			
Duo directions	117	6365	9.0	3.3	Lead: Class H /C + additives			
Production	1435	8365	13.2	1.4	Tail: Class H / C + additives			

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

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Require d WP	Туре		<b>✓</b>	Tested to:	
			Annular		X	50% of rated working pressure	
Int 1	13-58"	5M	Bline	d Ram	X		
IIIt I	13-36	J1V1		Ram		5M	
			Doub	le Ram	X	3101	
			Other*				
			Annular (5M)		X	50% of rated working pressure	
Production	13-5/8"	5M	Blind Ram		X		
Troduction		3101	Pipe Ram			5M	
			Doub	le Ram	X	J1 <b>V1</b>	
			Other*				
			Annular (5M)				
			Blind Ram				
			Pipe Ram				
			Double Ram				
			Other*				
N A variance is requested for					attached for so	chematic.	
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

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 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.

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

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4848
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.

encountered	measured values and formations will be provided to the BLIVI.
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).
- The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments	1
X	Directional Plan
	Other, describe

# **WCDSC Permian NM**

Eddy County (NAD 83 NM Eastern) Sec 20-T24S-R27E Wyatt Earp 20-17 Fed Com 333H

Wellbore #1

Plan: Permit Plan 1

# **Standard Planning Report - Geographic**

08 July, 2019

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

Eddy County (NAD 83 NM Eastern)

Site: Sec 20-T24S-R27E

Project:

Site

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

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

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Sec 20-T24S-R27E

440,144.53 usft Northing: Site Position: Latitude: 32.209984 576,044.15 usft -104.221116 Мар Easting: From: Longitude: Slot Radius: 13-3/16 " 0.06 **Position Uncertainty:** 0.00 ft **Grid Convergence:** 

Well Wyatt Earp 20-17 Fed Com 333H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 435,208.18 usft
 Latitude:
 32.196400

 +E/-W
 0.00 ft
 Easting:
 580,757.19 usft
 Longitude:
 -104.205896

Position Uncertainty 0.50 ft Wellhead Elevation: Ground Level: 3,297.50 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 59.91 IGRF2015 7/2/2019 7.02 47,645.61641355

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 0.00 355.76

Plan Survey Tool Program Date 7/8/2019

Depth From Depth To

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

1 0.00 19,204.57 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

**Plan Sections** Vertical Measured Dogleg Build Turn Inclination Depth +N/-S Rate Rate Rate Depth Azimuth +E/-W 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 2,000.00 0.00 0.00 2,000.00 0.00 0.00 0.00 0.00 0.00 0.00 2.871.45 8.71 246.94 2.868.09 -25.91 -60.86 1.00 1.00 0.00 246.94 7,434.30 8.71 246.94 7,378.27 -296.73 -696.93 0.00 0.00 0.00 0.00 8,015.27 0.00 0.00 7,957.00 -314.00 -737.50 1.50 -1.50 0.00 180.00 8,365.31 0.00 0.00 8,307.04 -314.00 -737.50 0.00 0.00 0.00 9,265.31 90.00 359.90 8,880.00 258.96 -738.46 10.00 10.00 0.00 359.90 PBHL - Wyatt Earp 20 19,204.57 -755.19 0.00 PBHL - Wyatt Earp 20 90.00 359.90 8,880.00 10,198.20 0.00 0.00 0.00

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

Project: Eddy County (NAD 83 NM Eastern)

**Site:** Sec 20-T24S-R27E

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

Planned Survey	1								
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	435,208.18	580,757.19	32.196400	-104.205896
100.00	0.00	0.00	100.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
200.00	0.00	0.00	200.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
300.00	0.00	0.00	300.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
400.00	0.00	0.00	400.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
500.00	0.00	0.00	500.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
600.00	0.00	0.00	600.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
700.00	0.00	0.00	700.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
800.00	0.00	0.00	800.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
900.00	0.00	0.00	900.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,000.00	0.00	0.00	1,000.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,100.00	0.00	0.00	1,100.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,200.00	0.00	0.00	1,200.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,300.00		0.00	1,300.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,400.00	0.00	0.00	1,400.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,500.00	0.00	0.00	1,500.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,600.00		0.00	1,600.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,700.00	0.00	0.00	1,700.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,800.00	0.00	0.00	1,800.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
1,900.00	0.00	0.00	1,900.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
2,000.00	0.00	0.00	2,000.00	0.00	0.00	435,208.18	580,757.19	32.196400	-104.205896
2,100.00	1.00	246.94	2,099.99	-0.34	-0.80	435,207.84	580,756.39	32.196400	-104.205899
2,200.00	2.00	246.94	2,199.96	-1.37	-3.21 -7.22	435,206.81	580,753.98	32.196397	-104.205906
2,300.00	3.00 4.00	246.94 246.94	2,299.86 2,399.68	-3.08 -5.47	-7.22 -12.84	435,205.10	580,749.97 580,744.35	32.196392 32.196385	-104.205919 -104.205938
2,400.00 2,500.00		246.94	2,399.00	-5.4 <i>1</i> -8.54	-12.0 <del>4</del> -20.06	435,202.71 435,199.64	580,737.13	32.196377	-104.205961
2,600.00		246.94	2,499.37	-12.30	-28.88	435,195.88	580,728.31	32.196367	-104.205989
2,700.00		246.94	2,698.26	-12.30	-39.29	435,191.45	580,717.90	32.196355	-104.206023
2,800.00		246.94	2,797.40	-21.84	-51.30	435,186.34	580,705.89	32.196341	-104.206062
2,871.45		246.94	2,868.09	-25.91	-60.86	435,182.27	580,696.33	32.196329	-104.206093
2,900.00	8.71	246.94	2,896.31	-27.61	-64.84	435,180.57	580,692.36	32.196325	-104.206106
3,000.00		246.94	2,995.16	-33.54	-78.78	435,174.64	580,678.41	32.196309	-104.206151
3,100.00		246.94	3,094.01	-39.48	-92.72	435,168.70	580,664.47	32.196292	-104.206196
3,200.00		246.94	3,192.85	-45.41	-106.66	435,162.77	580,650.53	32.196276	-104.206241
3,300.00		246.94	3,291.70	-51.35	-120.60	435,156.83	580,636.59	32.196260	-104.206286
3,400.00	8.71	246.94	3,390.54	-57.28	-134.54	435,150.90	580,622.65	32.196243	-104.206331
3,500.00	8.71	246.94	3,489.39	-63.22	-148.48	435,144.96	580,608.71	32.196227	-104.206376
3,600.00	8.71	246.94	3,588.23	-69.15	-162.42	435,139.03	580,594.77	32.196211	-104.206421
3,700.00	8.71	246.94	3,687.08	-75.09	-176.36	435,133.09	580,580.83	32.196195	-104.206466
3,800.00	8.71	246.94	3,785.92	-81.02	-190.30	435,127.16	580,566.89	32.196178	-104.206512
3,900.00	8.71	246.94	3,884.77	-86.96	-204.24	435,121.22	580,552.95	32.196162	-104.206557
4,000.00	8.71	246.94	3,983.62	-92.89	-218.18	435,115.29	580,539.01	32.196146	-104.206602
4,100.00	8.71	246.94	4,082.46	-98.83	-232.12	435,109.35	580,525.07	32.196130	-104.206647
4,200.00	8.71	246.94	4,181.31	-104.76	-246.06	435,103.42	580,511.13	32.196113	-104.206692
4,300.00	8.71	246.94	4,280.15	-110.70	-260.00	435,097.48	580,497.19	32.196097	-104.206737
4,400.00		246.94	4,379.00	-116.63	-273.94	435,091.55	580,483.25	32.196081	-104.206782
4,500.00		246.94	4,477.84	-122.57	-287.88	435,085.61	580,469.31	32.196064	-104.206827
4,600.00		246.94	4,576.69	-128.50	-301.82	435,079.68	580,455.37	32.196048	-104.206872
4,700.00		246.94	4,675.53	-134.44	-315.76	435,073.74	580,441.43	32.196032	-104.206917
4,800.00		246.94	4,774.38	-140.37	-329.70	435,067.81	580,427.49	32.196016	-104.206962
4,900.00		246.94	4,873.23	-146.31	-343.64	435,061.87	580,413.55	32.195999	-104.207008
5,000.00		246.94	4,972.07	-152.25	-357.58	435,055.94	580,399.61	32.195983	-104.207053
5,100.00		246.94	5,070.92	-158.18	-371.52	435,050.00	580,385.67	32.195967	-104.207098
5,200.00		246.94	5,169.76	-164.12	-385.46	435,044.06	580,371.73	32.195951	-104.207143
5,300.00	8.71	246.94	5,268.61	-170.05	-399.40	435,038.13	580,357.79	32.195934	-104.207188

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 20-T24S-R27E

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

Planned S	urvey									
Measu Dept (ft)	th [	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
	00.00	8.71	246.94	5,367.45	-175.99	-413.34	435,032.19	580,343.85	32.195918	-104.207233
	00.00	8.71	246.94	5,466.30	-181.92	-427.28	435,026.26	580,329.91	32.195902	-104.207278
5,60	00.00	8.71	246.94	5,565.14	-187.86	-441.22	435,020.32	580,315.97	32.195885	-104.207323
	00.00	8.71	246.94	5,663.99	-193.79	-455.16	435,014.39	580,302.03	32.195869	-104.207368
1	00.00	8.71	246.94	5,762.84	-199.73	-469.10	435,008.45	580,288.09	32.195853	-104.207413
	00.00	8.71	246.94	5,861.68	-205.66	-483.04	435,002.52	580,274.15	32.195837	-104.207458
1	00.00	8.71	246.94	5,960.53	-211.60	-496.98	434,996.58	580,260.21	32.195820	-104.207504
1	00.00	8.71	246.94	6,059.37	-217.53	-510.92	434,990.65	580,246.27	32.195804	-104.207549
1	00.00	8.71	246.94	6,158.22	-223.47	-524.86	434,984.71	580,232.33	32.195788	-104.207594
1	00.00	8.71	246.94	6,257.06	-229.40	-538.80	434,978.78	580,218.39	32.195772	-104.207639
	00.00	8.71	246.94	6,355.91	-235.34	-552.74	434,972.84	580,204.45	32.195755	-104.207684
1	00.00	8.71	246.94	6,454.75	-241.27	-566.68	434,966.91	580,190.51	32.195739	-104.207729
	00.00	8.71	246.94	6,553.60	-247.21	-580.62	434,960.97	580,176.57	32.195723	-104.207774
1	00.00	8.71	246.94 246.94	6,652.45	-253.14 -259.08	-594.56 -608.51	434,955.04	580,162.63	32.195707	-104.207819
1	00.00	8.71		6,751.29			434,949.10	580,148.69 580,134.75	32.195690	-104.207864 -104.207909
	00.00	8.71 8.71	246.94 246.94	6,850.14 6,948.98	-265.01 -270.95	-622.45 -636.39	434,943.17 434,937.23	580,120.81	32.195674 32.195658	-104.207954
	00.00	8.71	246.94	7,047.83	-276.88	-650.33	434,931.30	580,120.81	32.195641	-104.207999
	00.00	8.71	246.94	7,047.63	-282.82	-664.27	434,925.36	580,092.93	32.195625	-104.208045
	00.00	8.71	246.94	7,146.67	-288.75	-678.21	434,919.43	580,092.93	32.195609	-104.208090
	00.00	8.71	246.94	7,245.52	-200.75 -294.69	-676.21 -692.15	434,913.49	580,065.05	32.195593	-104.208090
	34.30	8.71	246.94	7,344.30	-294.09	-696.93	434,911.45	580,060.27	32.195587	-104.208150
	00.00	7.73	246.94	7,443.29	-300.41	-705.57	434,907.77	580,051.62	32.195577	-104.208178
	00.00	6.23	246.94	7,542.55	-305.17	-716.75	434,903.01	580,040.44	32.195564	-104.208214
	00.00	4.73	246.94	7,642.09	-308.91	-725.54	434,899.27	580,031.66	32.195554	-104.208243
	00.00	3.23	246.94	7,741.85	-311.62	-731.92	434,896.56	580,025.27	32.195546	-104.208263
	00.00	1.73	246.94	7,841.75	-313.32	-735.90	434,894.86	580,021.29	32.195542	-104.208276
	00.00	0.23	246.94	7,941.73	-313.99	-737.47	434,894.19	580,019.72	32.195540	-104.208281
	15.27	0.00	0.00	7,957.00	-314.00	-737.50	434,894.18	580,019.69	32.195540	-104.208281
	00.00	0.00	0.00	8,041.73	-314.00	-737.50	434,894.18	580,019.69	32.195540	-104.208281
	00.00	0.00	0.00	8,141.73	-314.00	-737.50	434,894.18	580,019.69	32.195540	-104.208281
	00.00	0.00	0.00	8,241.73	-314.00	-737.50	434,894.18	580,019.69	32.195540	-104.208281
	35.31	0.00	0.00	8,307.04	-314.00	-737.50	434,894.18	580,019.69	32.195540	-104.208281
ко	P @ 83	65' MD. 50' I	FSL, 1310' FE	L						
	00.00	3.47	359.90	8,341.71	-312.95	-737.50	434,895.23	580,019.69	32.195543	-104.208281
	00.00	13.47	359.90	8,440.49	-298.24	-737.53	434,909.94	580,019.67	32.195583	-104.208281
8,60	00.00	23.47	359.90	8,535.22	-266.60	-737.58	434,941.58	580,019.61	32.195670	-104.208282
8,60	06.00	24.07	359.90	8,540.71	-264.18	-737.58	434,944.00	580,019.61	32.195677	-104.208282
FTI	P @ 860	06' MD, 100'	FSL, 1310' FI	EL						
	00.00	33.47	359.90	8,623.02	-218.99	-737.66	434,989.19	580,019.53	32.195801	-104.208282
	00.00	43.47	359.90	8,701.21	-156.86	-737.76	435,051.32	580,019.43	32.195972	-104.208282
8,90	00.00	53.47	359.90	8,767.43	-82.10	-737.89	435,126.08	580,019.30	32.196177	-104.208282
9,00	00.00	63.47	359.90	8,819.66	3.03	-738.03	435,211.21	580,019.16	32.196411	-104.208282
9,10	00.00	73.47	359.90	8,856.32	95.93	-738.19	435,304.11	580,019.00	32.196667	-104.208282
9,20	00.00	83.47	359.90	8,876.28	193.79	-738.35	435,401.97	580,018.84	32.196936	-104.208282
9,26	35.31	90.00	359.90	8,880.00	258.96	-738.46	435,467.14	580,018.73	32.197115	-104.208282
9,30	00.00	90.00	359.90	8,880.00	293.65	-738.52	435,501.83	580,018.67	32.197210	-104.208282
9,40	00.00	90.00	359.90	8,880.00	393.65	-738.69	435,601.83	580,018.50	32.197485	-104.208283
9,50	00.00	90.00	359.90	8,880.00	493.65	-738.86	435,701.83	580,018.34	32.197760	-104.208283
9,60	00.00	90.00	359.90	8,880.00	593.65	-739.03	435,801.83	580,018.17	32.198035	-104.208283
	00.00	90.00	359.90	8,880.00	693.65	-739.20	435,901.83	580,018.00	32.198310	-104.208283
	00.00	90.00	359.90	8,880.00	793.65	-739.36	436,001.82	580,017.83	32.198584	-104.208283
	00.00	90.00	359.90	8,880.00	893.65	-739.53	436,101.82	580,017.66	32.198859	-104.208283
10,00	00.00	90.00	359.90	8,880.00	993.65	-739.70	436,201.82	580,017.49	32.199134	-104.208284

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 20-T24S-R27E

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
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North Reference:

Survey Calculation Method:

Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

Measured   Depth   Inclination   Azimuth   Depth   HA/-S   H	Planned Survey									
10,200,00 90,00 359,90 8,880,00 1,193,65 7-40,01 436,401,82 580,017.69 32,199595 104,0208244 10,500,00 90,00 359,90 8,880,00 1,293,65 7-40,27 436,601,82 580,016,82 32,200234 104,208245 10,500,00 90,00 359,90 8,880,00 1,493,65 7-40,37 436,601,82 580,016,82 32,200599 104,208245 10,700,00 90,00 359,90 8,880,00 1,493,65 7-40,37 436,601,82 580,016,82 32,200794 104,208245 10,700,00 90,00 359,90 8,880,00 1,783,65 7-40,37 436,601,82 580,016,82 32,200794 104,208245 10,700,00 90,00 359,90 8,880,00 1,893,65 7-40,38 436,901,82 580,016,32 32,201599 104,208245 10,900,00 90,00 359,90 8,880,00 1,893,65 7-41,22 437,019,82 580,016,32 32,201599 104,208245 11,000,00 90,00 359,90 8,880,00 1,893,65 7-41,22 437,019,82 580,015,88 32,201833 104,208255 11,000,00 90,00 359,90 8,880,00 1,893,65 7-41,32 437,019,82 580,015,81 32,201883 104,000,00 90,00 359,90 8,880,00 1,893,65 7-41,32 437,401,82 580,015,84 32,201883 11,000,00 90,00 359,90 8,880,00 2,983,64 7-41,55 437,91,82 580,015,84 32,201883 11,000,00 90,00 359,90 8,880,00 2,983,64 7-41,55 437,91,82 580,015,41 32,202435 104,000,00 10,00 359,90 8,880,00 2,983,64 7-41,55 437,91,82 580,015,41 32,202435 104,000,00 359,90 8,880,00 2,293,64 7-41,59 437,91,82 580,015,41 32,202835 104,000,00 359,90 8,880,00 2,293,64 7-41,59 437,91,82 580,015,41 32,202835 104,000,00 359,90 8,880,00 2,293,64 7-42,23 437,91,82 580,015,41 32,202835 104,000,00 359,90 8,880,00 2,483,64 7-42,23 437,91,82 580,014,47 32,202835 104,000,00 359,90 8,880,00 2,483,64 7-42,23 437,91,82 580,014,47 32,202835 104,000,00 359,90 8,880,00 3,880,84 7-42,23 438,91,84 580,014,34 32,203536 104,202826 11,900,00 90,00 359,90 8,880,00 3,880,84 7-42,23 438,91,84 580,014,34 32,203537 104,202826 11,900,00 90,00 359,90 8,880,00 3,880,84 7-42,34 438,91,84 580,014,34 32,204362 104,202826 11,900,00 90,00 359,90 8,880,00 3,880,84 7-44,24 439,91,84 580,014,34 32,204363 12,204,000 90,00 359,90 8,880,00 3,880,84 7-44,24 439,91,84 580,014,34 32,204363 12,204,000 90,00 359,90 8,880,00 3,880,00 3,880,00 3,880,00 3,880,00 3,880,00 3,880,00 3,880,00 3,880	Depth			Depth			Northing	Easting	Latitude	Longitude
10,000	10,100.00	90.00	359.90	8,880.00	1,093.65	-739.87	436,301.82	580,017.33	32.199409	-104.208284
10,500 0	10,200.00	90.00	359.90	8,880.00	1,193.65	-740.04	436,401.82	580,017.16	32.199684	-104.208284
10,500 00 90,00 359,90 8,880 00 1,896,65 740,74 445,6701 82 580,016,86 32,200599 1-04,202825 10,700 00 90,00 359,90 8,880 00 1,896,65 740,74 8445,801 82 580,016,83 23,200599 1-04,202825 10,800 00 90,00 359,90 8,880 00 1,793,85 5 741,25 477,018 2580,016,32 32,201333 1-04,202825 11,000 00 90,00 359,90 8,880 00 1,896,85 6,741,25 477,018 2580,016,31 82,201383 1-04,202825 11,000 00 90,00 359,90 8,880 00 1,896,85 6,741,25 477,018 2580,016,38 32,201883 1-04,202825 11,000 00 90,00 359,90 8,880 00 1,896,85 6,741,35 477,018 2580,015,81 32,20183 1-04,202825 11,200 00 90,00 359,90 8,880 00 2,396,64 741,55 477,018 2580,015,81 32,20183 1-04,202825 11,200 00 90,00 359,90 8,880 00 2,396,64 741,55 477,018 2580,015,84 32,20183 1-04,202825 11,200 00 90,00 359,90 8,880 00 2,396,64 741,89 437,501 82 580,015,84 32,202433 1-04,202826 11,200 00 90,00 359,90 8,880 00 2,396,64 741,89 437,501 82 580,015,81 32,202788 1-04,202826 11,400 00 90,00 359,90 8,880 00 2,396,64 741,89 437,501 82 580,015,31 32,202788 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,26 437,501 82 580,015,31 32,202788 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,26 437,501 82 580,015,31 32,202788 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,26 437,501 82 580,015,31 32,202788 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,23 437,501 82 580,015,49 32,202333 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,23 437,501 82 580,014,67 32,202333 1-04,202826 11,500 00 90,00 359,90 8,880 00 2,396,64 742,23 437,501 82 580,014,63 32,203377 1-04,202827 11,800 00 90,00 359,90 8,880 00 2,396,64 742,23 437,501 82 580,014,63 32,203377 1-04,202827 12,200 00 90,00 359,90 8,880 00 2,396,64 742,23 437,501 82 580,014,63 32,203337 1-04,202827 12,200 00 90,00 359,90 8,880 00 2,396,64 742,23 443,501 82 580,014,63 32,203377 1-04,202827 12,200 00 90,00 359,90 8,880 00 2,396,64 744,23 443,501 82 580,014,63 32,204,64 74,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40,40 84,40	10,300.00			8,880.00	1,293.65	-740.21	436,501.82	580,016.99	32.199959	-104.208284
10,000 0	10,400.00			8,880.00	1,393.65		436,601.82	580,016.82	32.200234	-104.208284
10,700.00 90.00 399.90 8,880.00 1,739.66 7-40.88 436,001.82 580,016.32 32,01059 1-104,202825 10,800.00 90.00 399.90 8,880.00 1,739.66 7-41.26 437,010.82 580,016.15.88 32,01608 1-04,202825 11,000.00 90.00 399.90 8,880.00 1,939.65 7-41.28 437,010.82 580,016.15.88 32,021608 1-04,202825 11,000.00 90.00 399.90 8,880.00 1,936.65 7-41.28 437,010.82 580,016.14 32,021683 1-04,202825 11,200.00 90.00 399.90 8,880.00 2,139.64 7-41.55 437,301.82 580,016.64 32,022158 1-04,202825 11,200.00 90.00 399.90 8,880.00 2,139.64 7-41.55 437,301.82 580,016.54 32,022158 1-04,202825 11,400.00 90.00 399.90 8,880.00 2,139.64 7-42.23 437,610.82 580,016.54 32,022708 1-104,202826 11,400.00 90.00 399.90 8,880.00 2,139.64 7-42.23 437,610.82 580,016.54 32,022708 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,139.64 7-42.23 437,701.82 580,016.54 32,02258 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,139.64 7-42.23 437,701.82 580,016.54 32,02258 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,139.64 7-42.23 437,701.82 580,016.47 32,02258 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,010.82 580,016.45 32,020353 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,010.82 580,014.67 32,020353 1-104,202826 11,800.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,010.82 580,014.63 32,020357 1-104,202827 11,800.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,010.82 580,014.83 32,020357 1-104,202827 12,000.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,018.2 580,014.30 32,020357 1-104,202827 12,000.00 90.00 359.90 8,880.00 2,138.64 7-42.25 437,018.2 580,014.30 32,020357 1-104,202827 12,000.00 90.00 359.90 8,880.00 3,139.84 7-42.33 438,301.82 580,014.30 32,020357 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,139.84 7-43.25 438,018.2 580,013.96 32,02097 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,139.84 7-43.43 438,018.2 580,013.96 32,02097 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,139.84 7-43.43 438,018.2 580,013.96 32,02097 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,139.84 7-43.43 438,018.2 580,013.94 32,02097 1-04,2028	10,500.00	90.00	359.90	8,880.00	1,493.65	-740.54	436,701.82	580,016.65	32.200509	-104.208284
10,800.00 90.00 359.90 8,880.00 1,836.50 741.25 437,018.2 580,016.15 32,201333 1-104,202825 11,000.00 90.00 359.90 8,880.00 1,836.50 741.22 437,018.2 580,015.81 32,201883 1-104,202825 11,100.00 90.00 359.90 8,880.00 2,236.44 -741.55 437,201.82 580,015.81 32,201883 1-104,202825 11,200.00 90.00 359.90 8,880.00 2,236.44 -741.55 437,201.82 580,015.61 32,202433 1-104,202826 11,300.00 90.00 359.90 8,880.00 2,236.44 -741.87 437,401.82 580,015.47 32,202433 1-104,202826 11,400.00 90.00 359.90 8,880.00 2,236.44 -741.26 437,401.82 580,015.47 32,202433 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,236.44 -742.26 437,601.82 580,015.14 32,202983 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,236.44 -742.26 437,601.82 580,015.14 32,202983 1-104,202826 11,500.00 90.00 359.90 8,880.00 2,236.44 -742.26 437,601.82 580,014.80 32,203533 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,236.44 -742.26 437,601.82 580,014.80 32,203533 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,236.44 -742.26 437,601.82 580,014.80 32,203533 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,336.44 -742.26 437,601.82 580,014.80 32,203633 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,336.44 -742.26 437,601.82 580,014.80 32,204357 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,336.44 -743.27 438,011.82 580,014.80 32,204357 1-04,202826 11,500.00 90.00 359.90 8,880.00 2,393.64 -743.27 438,011.82 580,014.30 32,204357 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,393.64 -743.27 438,011.82 580,014.30 32,204357 1-04,202827 12,000.00 90.00 359.90 8,880.00 3,393.64 -743.37 438,011.82 580,013.82 580,013.82 32,204357 1-04,202827 12,200.00 90.00 359.90 8,880.00 3,393.64 -743.37 438,011.82 580,013.82 32,204357 1-04,202828 12,500.00 90.00 359.90 8,880.00 3,393.64 -743.37 438,011.82 580,013.82 32,205637 1-04,202828 12,500.00 90.00 359.90 8,880.00 3,393.64 -743.37 438,011.85 580,013.82 32,205651 1-04,202828 12,200.00 90.00 359.90 8,880.00 3,393.64 -743.37 438,011.85 580,013.82 32,205651 1-04,202828 13,200.00 90.00 359.90 8,880.00 3,393.64 -744.24 438,011.85 580,013.85 32,2056	10,600.00				1,593.65		436,801.82	580,016.48	32.200784	
11,000 0 90,00 359 90 8,880 00 1938 56 7-41 22 437,018 2 580,015 88 32,021608 1-104,020285 11,000 0 90,00 359 90 8,880 00 1938 65 7-41 38 437,2018 2 580,015 64 32,02158 1-104,020285 11,200 00 90,00 359 90 8,880 00 2,136 4 7-41,55 437,301.82 580,015 64 32,02158 1-104,020285 11,200 00 90,00 359 90 8,880 00 2,136 4 7-41,100 40 90,00 359 90 8,880 00 2,136 4 7-41,100 40 90,00 359 90 8,880 00 2,136 4 7-41,100 40 90,00 359 90 8,800 00 2,436 4 7-41,20 437,601.82 580,015 14 32,02288 11,500 00 90,00 359 90 8,800 00 2,436 4 7-42,20 437,601.82 580,015 14 32,02288 1-104,200286 11,500 00 90,00 359 90 8,800 00 2,436 4 7-42,20 437,601.82 580,015 14 32,02288 1-104,200286 11,500 00 90,00 359 90 8,800 00 2,436 4 7-42,20 437,601.82 580,014 80 32,203533 1-104,200286 11,700 00 90,00 359 90 8,800 00 2,536 4 7-42,20 437,601.82 580,014 80 32,203533 1-104,200287 11,800 00 90,00 359 90 8,800 00 2,536 4 7-42,20 438,018 2 580,014 80 32,204082 11,400 00 90,00 359 90 8,800 00 2,636 4 7-42,20 438,018 2 580,014 80 32,204082 11,400 00 90,00 359 90 8,800 00 2,636 4 7-42,20 438,018 2 580,014 33 32,003807 1-104,200287 12,000 00 90,00 359 90 8,800 00 3,036 4 7-43,30 4 38,018 2 580,014 33 32,004632 1-104,200287 12,000 00 90,00 359 90 8,800 00 3,036 4 7-43,30 4 38,018 2 580,014 30 32,204632 1-104,200287 12,200 00 90,00 359 90 8,800 00 3,036 4 7-43,30 4 38,018 2 580,013 39 32,204632 1-104,200287 12,200 00 90,00 359 90 8,800 00 3,036 4 7-43,30 4 38,018 2 580,013 39 32,204632 1-104,200287 12,200 00 90,00 359 90 8,800 00 3,036 4 7-43,30 4 38,018 2 580,013 39 32,205457 1-104,200287 12,200 00 90,00 359 90 8,800 00 3,039 64 7-43,30 4 38,018 2 580,013 45 32,205457 1-104,200287 12,200 00 90,00 359 90 8,800 00 3,039 90 8,800										
11,100.00 90.00 359.90 8,880.00 2,936.56 741.58 437.201.82 580,015.81 32.201883 -1.04.208285 11,200.00 90.00 359.90 8,880.00 2,936.64 741.72 437.401.82 580,015.47 32.202433 -1.04.208285 11,300.00 90.00 359.90 8,880.00 2,936.64 741.72 437.401.82 580,015.41 32.202708 -1.04.208286 11,400.00 90.00 359.90 8,880.00 2,336.64 742.60 437.601.82 580,015.14 32.202358 -1.04.208286 11,500.00 90.00 359.90 8,880.00 2,336.64 742.60 437.601.82 580,015.14 32.202358 -1.04.208286 11,500.00 90.00 359.90 8,880.00 2,336.64 742.60 437.601.82 580,015.14 32.202358 -1.04.208286 11,500.00 90.00 359.90 8,880.00 2,336.64 742.50 437.601.82 580,015.14 32.202358 -1.04.208286 11,500.00 90.00 359.90 8,880.00 2,336.64 742.50 437.601.82 580,015.40 32.203333 -1.04.208286 11,500.00 90.00 359.90 8,880.00 2,336.64 742.50 437.601.82 580,015.40 32.203333 -1.04.208287 11,800.00 90.00 359.90 8,880.00 2,336.64 742.50 437.601.82 580,015.40 32.203333 -1.04.208287 11,800.00 90.00 359.90 8,880.00 2,383.64 742.50 437.601.82 580,015.43 32.203333 -1.04.208287 12,200.00 90.00 359.90 8,880.00 2,383.64 743.07 438.201.82 580,015.43 32.20452 -1.04.208287 12,200.00 90.00 359.90 8,880.00 2,383.64 743.37 743.82 580,015.30 580,013.30 59.00 8,800.00 2,303.64 743.37 438.201.82 580,013.30 52.204507 -1.04.208287 12,200.00 90.00 359.90 8,880.00 3,393.64 743.37 438.201.82 580,013.96 32.204507 -1.04.208287 12,200.00 90.00 359.90 8,880.00 3,393.64 743.47 43.86 618.25 580,013.96 32.204507 -1.04.208287 12,200.00 90.00 359.90 8,880.00 3,393.64 743.47 43.86 618.25 580,013.62 32.204507 -1.04.208287 12,200.00 90.00 359.90 8,880.00 3,393.64 743.47 43.86 618.25 580,013.62 32.205457 -1.04.208287 12,200.00 90.00 359.90 8,880.00 3,393.64 744.44 43.80.601.82 580,013.25 32.205457 -1.04.208288 12,200.00 90.00 359.90 8,880.00 3,393.64 744.44 43.80.601.85 580,013.25 32.205457 -1.04.208288 12,200.00 90.00 359.90 8,880.00 3,393.64 744.44 43.80.601.85 580,013.25 32.205457 -1.04.208280 13,200.00 90.00 359.90 8,880.00 3,393.64 744.54 43.80.601.85 580,013.25 32.205457 -1.04.208280 13,200.00 90.00 359.										
11,100.00   90.00   359.90   8,880.00   2,093.64   7-741.55   437,301.82   580,015.64   32,202158   1-104,208228   11,300.00   90.00   359.90   8,880.00   2,293.64   7-741.89   437,501.82   580,015.31   32,202708   1-104,208228   11,500.00   90.00   359.90   8,880.00   2,493.64   7-742.29   437,701.82   580,015.14   32,202708   1-104,208228   11,500.00   90.00   359.90   8,880.00   2,593.64   7-742.39   437,701.82   580,014.87   32,202538   1-104,208228   11,500.00   90.00   359.90   8,880.00   2,593.64   7-742.39   437,801.82   580,014.83   32,203507   1-104,208228   11,500.00   90.00   359.90   8,880.00   2,793.64   7-742.39   437,801.82   580,014.83   32,203507   1-104,208228   11,500.00   90.00   359.90   8,880.00   2,793.64   7-742.30   438,101.82   580,014.45   32,204632   1-104,208228   12,000.00   90.00   359.90   8,880.00   2,993.64   7-743.07   438,101.82   580,014.45   32,204632   1-104,208227   12,000.00   90.00   359.90   8,880.00   2,993.64   7-743.07   438,201.82   580,014.30   32,204632   1-104,208227   12,000.00   90.00   359.90   8,880.00   3,993.64   7-743.27   438,301.82   580,013.96   32,204632   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,933.64   7-743.73   438,501.82   580,013.96   32,204632   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,933.64   7-743.74   438,601.82   580,013.79   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,933.64   7-743.74   438,601.82   580,013.45   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,593.64   7-744.08   438,701.82   580,013.45   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,593.64   7-744.08   438,701.82   580,013.15   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,593.64   7-744.08   438,701.82   580,013.15   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,593.64   7-744.08   438,701.82   580,013.15   32,205182   1-104,208228   12,000.00   90.00   359.90   8,880.00   3,593.64   7-744.08   438,701.82   580,013.15   3										
11,200.00   90.00   359.90   8,880.00   2,193.64   7-41.72   437,401.82   580,015.47   32,202433   1-104,208286   11,500.00   90.00   359.90   8,880.00   2,393.64   7-41.82   437,501.82   580,015.14   32,202833   1-104,208286   11,500.00   90.00   359.90   8,880.00   2,593.64   7-42.29   437,701.82   580,014.87   32,203533   1-104,208286   11,500.00   90.00   359.90   8,880.00   2,593.64   7-42.29   437,701.82   580,014.87   32,203533   1-104,208286   11,500.00   90.00   359.90   8,880.00   2,593.64   7-42.29   437,701.82   580,014.87   32,204862   1-104,208287   11,800.00   90.00   359.90   8,880.00   2,793.64   7-42.73   438,001.82   580,014.65   32,204862   1-104,208287   11,900.00   90.00   359.90   8,880.00   2,893.64   7-42.30   438,101.82   580,014.45   32,204862   1-104,208287   12,000.00   90.00   359.90   8,880.00   2,993.64   7-43.27   438,001.82   580,014.30   32,204357   1-104,208287   12,000.00   90.00   359.90   8,880.00   3,033.64   7-43.24   438,018.82   580,014.30   32,204357   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,033.64   7-43.24   438,018.82   580,013.96   32,204697   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,293.64   7-43.27   438,018.82   580,013.96   32,204697   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,293.64   7-43.57   438,601.82   580,013.62   32,204557   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,293.64   7-43.57   438,601.82   580,013.62   32,205657   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,493.64   7-43.44   438,601.82   580,013.12   32,205607   1-104,208287   12,200.00   90.00   359.90   8,880.00   3,493.64   7-44.24   438,901.82   580,013.12   32,205607   1-104,208288   12,200.00   90.00   359.90   8,880.00   3,493.64   7-44.24   438,901.82   580,013.12   32,205687   1-104,208288   12,200.00   90.00   359.90   8,880.00   3,493.64   7-44.24   438,901.81   580,012.18   580,012.18   32,205686   1-104,208289   13,000.00   90.00   359.90   8,880.00   3,493.64   7-44.24   438,901.81   580,012.18   580,01										
11,300.00   90.00   359.90   8,880.00   2,293.64   -741.89   437,501.82   580.015.11   32,202783   -104,202828   11,500.00   90.00   359.90   8,880.00   2,493.64   -742.23   437,701.82   580.015.14   32,202833   -104,202828   11,500.00   90.00   359.90   8,880.00   2,593.64   -742.23   437,701.82   580.014.97   32,203533   -104,202828										
11,400.00 90.00 \$59.90 8,880.00 2,393.64 -742.06 437,601.82 \$60.014.97 32.202365 -104.202826   11,600.00 90.00 359.90 8,880.00 2,593.64 -742.23 437,701.82 \$60.014.97 32.202365 -104.202826   11,700.00 90.00 359.90 8,880.00 2,593.64 -742.23 437,801.82 \$60.014.80 32.203533 -104.202826   11,700.00 90.00 359.90 8,880.00 2,593.64 -742.73 438,001.82 \$60.014.80 32.203537 -104.202827   11,800.00 90.00 359.90 8,880.00 2,593.64 -742.73 438,001.82 \$60.014.46 32.204692 -104.202827   12,200.00 90.00 359.90 8,880.00 2,893.64 -743.07 438,201.82 \$60.014.30 32.204537 -104.202827   12,200.00 90.00 359.90 8,880.00 3,993.64 -743.07 438,201.82 \$60.014.30 32.204537 -104.202827   12,200.00 90.00 359.90 8,880.00 3,993.64 -743.23 438,301.82 \$60.013.90 32.204907 -104.202827   12,200.00 90.00 359.90 8,880.00 3,993.64 -743.27 438.501.82 \$60.013.90 32.204907 -104.202827   12,200.00 90.00 359.90 8,880.00 3,933.64 -743.37 438.501.82 \$60.013.90 32.204907 -104.202828   12,400.00 90.00 359.90 8,880.00 3,293.64 -743.47 438.501.82 \$60.013.69 32.205457 -104.202828   12,500.00 90.00 359.90 8,880.00 3,393.64 -743.47 438.501.82 \$60.013.69 32.205457 -104.202828   12,500.00 90.00 359.90 8,880.00 3,493.64 -743.91 438,701.82 \$60.013.29 32.205607 -104.202828   12,500.00 90.00 359.90 8,880.00 3,493.64 -744.48 438,901.82 \$60.013.29 32.205607 -104.202828   12,500.00 90.00 359.90 8,880.00 3,893.64 -744.45 438,901.82 \$60.013.12 32.206281 -104.202828   12,500.00 90.00 359.90 8,880.00 3,893.64 -744.58 439,101.81 \$60.012.14 32.207381 -104.202828   12,800.00 90.00 359.90 8,880.00 3,893.64 -744.58 439,101.81 \$60.012.61 32.207106 -104.202828   12,800.00 90.00 359.90 8,880.00 3,893.64 -744.52 439,301.81 \$60.012.61 32.207106 -104.202828   12,800.00 90.00 359.90 8,880.00 3,893.64 -744.52 439,301.81 \$60.012.61 32.207381 -104.202828   13,800.00 90.00 359.90 8,880.00 4,893.64 -744.52 439,301.81 \$60.012.28 32.205656 -104.202828   13,800.00 90.00 359.90 8,880.00 4,893.64 -744.52 439,301.81 \$60.012.28 32.205656 -104.202829   13,800.00 90.00 359.90 8,880.00 5,893.64 -744.52 43										
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13,903.00         90.00         359.90         8,880.00         4,896.64         -746.27         440,104.81         580,010.93         32.209863         -104.208290           Cross section @ 13903' MD, 0' FSL, 1310' FEL           14,000.00         90.00         359.90         8,880.00         4,993.64         -746.43         440,201.81         580,010.76         32.210130         -104.208290           14,100.00         90.00         359.90         8,880.00         5,093.64         -746.60         440,301.81         580,010.59         32.210405         -104.208291           14,200.00         90.00         359.90         8,880.00         5,193.64         -746.77         440,401.81         580,010.43         32.210680         -104.208291           14,300.00         90.00         359.90         8,880.00         5,293.64         -746.94         440,501.81         580,010.26         32.210955         -104.208291           14,500.00         90.00         359.90         8,880.00         5,393.64         -747.11         440,601.81         580,010.09         32.211229         -104.208291           14,600.00         90.00         359.90         8,880.00         5,593.64         -747.27         440,701.81         580,009.92         32.211779         -104										
Cross section @ 13903' MD, 0' FSL, 1310' FEL           14,000.00         90.00         359.90         8,880.00         4,993.64         -746.43         440,201.81         580,010.76         32.210130         -104.208290           14,100.00         90.00         359.90         8,880.00         5,093.64         -746.60         440,301.81         580,010.59         32.210405         -104.208291           14,200.00         90.00         359.90         8,880.00         5,193.64         -746.77         440,401.81         580,010.43         32.210680         -104.208291           14,300.00         90.00         359.90         8,880.00         5,293.64         -746.94         440,501.81         580,010.26         32.210955         -104.208291           14,400.00         90.00         359.90         8,880.00         5,393.64         -747.11         440,601.81         580,010.09         32.211229         -104.208291           14,500.00         90.00         359.90         8,880.00         5,493.64         -747.27         440,701.81         580,009.92         32.211504         -104.208291           14,600.00         90.00         359.90         8,880.00         5,593.64         -747.44         440,801.81         580,009.75         32.211779         -104								,		
14,000.00       90.00       359.90       8,880.00       4,993.64       -746.43       440,201.81       580,010.76       32.210130       -104.208290         14,100.00       90.00       359.90       8,880.00       5,093.64       -746.60       440,301.81       580,010.59       32.210405       -104.208291         14,200.00       90.00       359.90       8,880.00       5,193.64       -746.77       440,401.81       580,010.43       32.210680       -104.208291         14,300.00       90.00       359.90       8,880.00       5,293.64       -746.94       440,501.81       580,010.26       32.210955       -104.208291         14,500.00       90.00       359.90       8,880.00       5,393.64       -747.11       440,601.81       580,010.09       32.211229       -104.208291         14,600.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,700.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.58					4,030.04	-140.21	440,104.01	300,010.33	32.203003	-104.200230
14,100.00       90.00       359.90       8,880.00       5,093.64       -746.60       440,301.81       580,010.59       32.210405       -104.208291         14,200.00       90.00       359.90       8,880.00       5,193.64       -746.77       440,401.81       580,010.43       32.210680       -104.208291         14,300.00       90.00       359.90       8,880.00       5,293.64       -746.94       440,501.81       580,010.26       32.210955       -104.208291         14,400.00       90.00       359.90       8,880.00       5,393.64       -747.11       440,601.81       580,010.09       32.211229       -104.208291         14,500.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42		_	-	•	1 003 64	746.43	440 201 81	580 010 76	32 210130	104 208200
14,200.00       90.00       359.90       8,880.00       5,193.64       -746.77       440,401.81       580,010.43       32.210680       -104.208291         14,300.00       90.00       359.90       8,880.00       5,293.64       -746.94       440,501.81       580,010.26       32.210955       -104.208291         14,400.00       90.00       359.90       8,880.00       5,393.64       -747.11       440,601.81       580,010.09       32.211229       -104.208291         14,500.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         15,000.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25				,						
14,300.00       90.00       359.90       8,880.00       5,293.64       -746.94       440,501.81       580,010.26       32.210955       -104.208291         14,400.00       90.00       359.90       8,880.00       5,393.64       -747.11       440,601.81       580,010.09       32.211229       -104.208291         14,500.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         14,900.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25       32.212604       -104.208292         15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08										
14,400.00       90.00       359.90       8,880.00       5,393.64       -747.11       440,601.81       580,010.09       32.211229       -104.208291         14,500.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         14,900.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25       32.212604       -104.208292         15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08       32.212879       -104.208292         15,100.00       90.00       359.90       8,880.00       6,093.64       -748.28       441,301.81       580,008.91										
14,500.00       90.00       359.90       8,880.00       5,493.64       -747.27       440,701.81       580,009.92       32.211504       -104.208291         14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         15,000.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25       32.212604       -104.208292         15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08       32.212879       -104.208292         15,100.00       90.00       359.90       8,880.00       6,093.64       -748.28       441,301.81       580,008.91       32.213154       -104.208292										
14,600.00       90.00       359.90       8,880.00       5,593.64       -747.44       440,801.81       580,009.75       32.211779       -104.208291         14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         14,900.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25       32.212604       -104.208292         15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08       32.212879       -104.208292         15,100.00       90.00       359.90       8,880.00       6,093.64       -748.28       441,301.81       580,008.91       32.213154       -104.208292								*		
14,700.00       90.00       359.90       8,880.00       5,693.64       -747.61       440,901.81       580,009.58       32.212054       -104.208292         14,800.00       90.00       359.90       8,880.00       5,793.64       -747.78       441,001.81       580,009.42       32.212329       -104.208292         14,900.00       90.00       359.90       8,880.00       5,893.64       -747.95       441,101.81       580,009.25       32.212604       -104.208292         15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08       32.212879       -104.208292         15,100.00       90.00       359.90       8,880.00       6,093.64       -748.28       441,301.81       580,008.91       32.213154       -104.208292										
14,800.00     90.00     359.90     8,880.00     5,793.64     -747.78     441,001.81     580,009.42     32.212329     -104.208292       14,900.00     90.00     359.90     8,880.00     5,893.64     -747.95     441,101.81     580,009.25     32.212604     -104.208292       15,000.00     90.00     359.90     8,880.00     5,993.64     -748.12     441,201.81     580,009.08     32.212879     -104.208292       15,100.00     90.00     359.90     8,880.00     6,093.64     -748.28     441,301.81     580,008.91     32.213154     -104.208292							,			
14,900.00     90.00     359.90     8,880.00     5,893.64     -747.95     441,101.81     580,009.25     32.212604     -104.208292       15,000.00     90.00     359.90     8,880.00     5,993.64     -748.12     441,201.81     580,009.08     32.212879     -104.208292       15,100.00     90.00     359.90     8,880.00     6,093.64     -748.28     441,301.81     580,008.91     32.213154     -104.208292										
15,000.00       90.00       359.90       8,880.00       5,993.64       -748.12       441,201.81       580,009.08       32.212879       -104.208292         15,100.00       90.00       359.90       8,880.00       6,093.64       -748.28       441,301.81       580,008.91       32.213154       -104.208292										
15,100.00 90.00 359.90 8,880.00 6,093.64 -748.28 441,301.81 580,008.91 32.213154 -104.208292								*		
15,200.00 90.00 359.90 8,880.00 6,193.64 -748.45 441,401.81 580,008.74 32.213429 -104.208292					6,193.64	-748.45			32.213429	-104.208292

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

Project: Eddy County (NAD 83 NM Eastern)

**Site:** Sec 20-T24S-R27E

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
15,300.00	90.00	359.90	8,880.00	6,293.64	-748.62	441,501.81	580,008.57	32.213703	-104.208
15,400.00	90.00	359.90	8,880.00	6,393.64	-748.79	441,601.81	580,008.41	32.213978	-104.20
15,500.00	90.00	359.90	8,880.00	6,493.64	-748.96	441,701.81	580,008.24	32.214253	-104.20
15,600.00	90.00	359.90	8,880.00	6,593.64	-749.13	441,801.81	580,008.07	32.214528	-104.20
15,700.00	90.00	359.90	8,880.00	6,693.64	-749.29	441,901.80	580,007.90	32.214803	-104.20
15,800.00	90.00	359.90	8,880.00	6,793.64	-749.46	442,001.80	580,007.73	32.215078	-104.20
15,900.00	90.00	359.90	8,880.00	6,893.64	-749.63	442,101.80	580,007.56	32.215353	-104.20
16,000.00	90.00	359.90	8,880.00	6,993.64	-749.80	442,201.80	580,007.40	32.215628	-104.20
16,100.00	90.00	359.90	8,880.00	7,093.64	-749.97	442,301.80	580,007.23	32.215903	-104.20
16,200.00	90.00	359.90	8,880.00	7,193.64	-750.13	442,401.80	580,007.06	32.216177	-104.20
16,300.00	90.00	359.90	8,880.00	7,293.64	-750.30	442,501.80	580,006.89	32.216452	-104.20
16,400.00	90.00	359.90	8,880.00	7,393.64	-750.47	442,601.80	580,006.72	32.216727	-104.20
16,500.00	90.00	359.90	8,880.00	7,493.64	-750.64	442,701.80	580,006.55	32.217002	-104.20
16,600.00	90.00	359.90	8,880.00	7,593.64	-750.81	442,801.80	580,006.39	32.217277	-104.20
16,700.00	90.00	359.90	8,880.00	7,693.64	-750.98	442,901.80	580,006.22	32.217552	-104.20
16,800.00	90.00	359.90	8,880.00	7,793.64	-751.14	443,001.80	580,006.05	32.217827	-104.20
16,900.00	90.00	359.90	8,880.00	7,893.64	-751.31	443,101.80	580,005.88	32.218102	-104.20
17,000.00	90.00	359.90	8,880.00	7,993.64	-751.48	443,201.80	580,005.71	32.218377	-104.20
17,100.00	90.00	359.90	8,880.00	8,093.64	-751.65	443,301.80	580,005.54	32.218651	-104.20
17,200.00	90.00	359.90	8,880.00	8,193.64	-751.82	443,401.80	580,005.38	32.218926	-104.20
17,300.00	90.00	359.90	8,880.00	8,293.64	-751.99	443,501.80	580,005.21	32.219201	-104.20
17,400.00	90.00	359.90	8,880.00	8,393.64	-752.15	443,601.80	580,005.04	32.219476	-104.20
17,500.00	90.00	359.90	8,880.00	8,493.64	-752.32	443,701.80	580,004.87	32.219751	-104.20
17,600.00	90.00	359.90	8,880.00	8,593.64	-752.49	443,801.80	580,004.70	32.220026	-104.20
17,700.00	90.00	359.90	8,880.00	8,693.64	-752.66	443,901.80	580,004.54	32.220301	-104.20
17,800.00	90.00	359.90	8,880.00	8,793.64	-752.83	444,001.80	580,004.37	32.220576	-104.20
17,900.00	90.00	359.90	8,880.00	8,893.64	-753.00	444,101.80	580,004.20	32.220851	-104.20
18,000.00	90.00	359.90	8,880.00	8,993.64	-753.16	444,201.80	580,004.03	32.221125	-104.20
18,100.00	90.00	359.90	8,880.00	9,093.64	-753.33	444,301.80	580,003.86	32.221400	-104.20
18,200.00	90.00	359.90	8,880.00	9,193.64	-753.50	444,401.80	580,003.69	32.221675	-104.20
18,300.00	90.00	359.90	8,880.00	9,293.63	-753.67	444,501.80	580,003.53	32.221950	-104.20
18,400.00	90.00	359.90	8,880.00	9,393.63	-753.84	444,601.80	580,003.36	32.22225	-104.20
18,500.00	90.00	359.90	8,880.00	9,493.63	-754.01	444,701.80	580,003.19	32.222500	-104.20
18,600.00	90.00	359.90	8,880.00	9,593.63	-754.17	444,801.80	580,003.02	32.222775	-104.20
18,700.00	90.00	359.90	8,880.00	9,693.63	-754.34	444,901.79	580,002.85	32.223050	-104.20
18,800.00	90.00	359.90	8,880.00	9,793.63	-754.51	445,001.79	580,002.68	32.223325	-104.20
18,900.00	90.00	359.90	8,880.00	9,893.63	-754.68	445,101.79	580,002.52	32.223600	-104.20
19,000.00	90.00	359.90	8,880.00	9,993.63	-754.85	445,201.79	580,002.35	32.223874	-104.20
19,100.00	90.00	359.90	8,880.00	10,093.63	-755.02	445,301.79	580,002.18	32.224149	-104.20
19,124.57	90.00	359.90	8,880.00	10,118.20	-755.06	445,326.36	580,002.14	32.224217	-104.20
LTP @ 19	9125' MD, 100	' FNL, 1310' I							
19,200.00	90.00	359.90	8,880.00	10,193.63	-755.18	445,401.79	580,002.01	32.224424	-104.20
19,204.56	90.00	359.90	8,880.00	10,198.19	-755.19	445,406.35	580,002.00	32.224437	-104.20
PBHL; 20	0' FNL, 1310' I	FEL							
19,204.57	90.00	359.90	8,880.00	10,198.20	-755.19	445,406.36	580,002.00	32.224437	-104.20

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

Project: Eddy County (NAD 83 NM Eastern)

Site: Sec 20-T24S-R27E

Well: Wyatt Earp 20-17 Fed Com 333H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

**Survey Calculation Method:** 

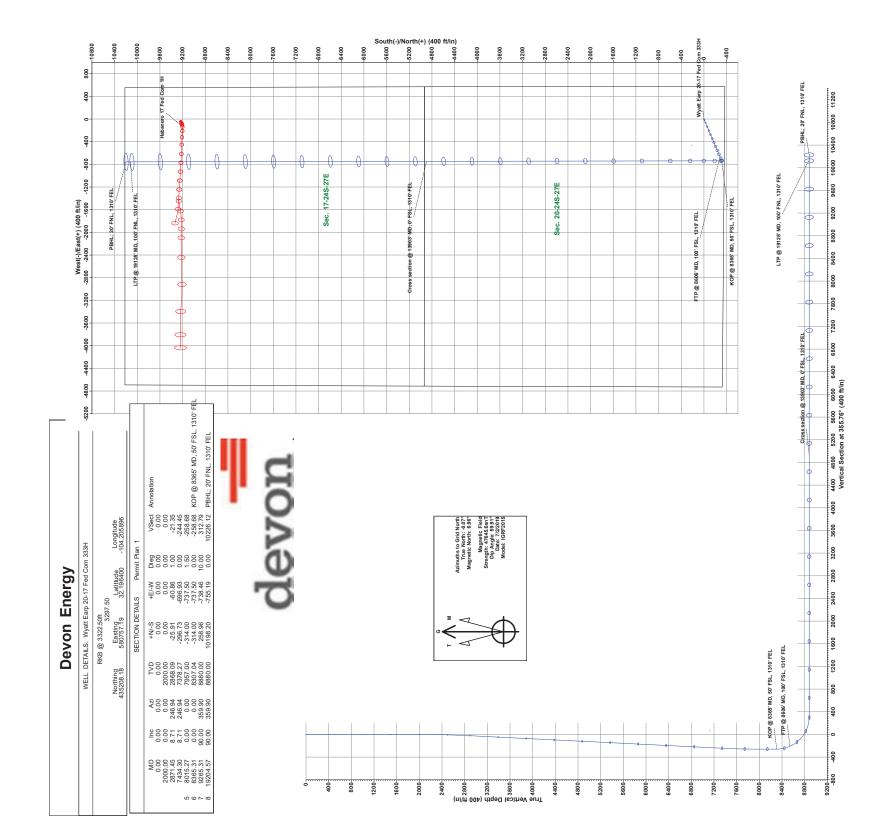
Well Wyatt Earp 20-17 Fed Com 333H

RKB @ 3322.50ft RKB @ 3322.50ft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Wyatt Earp 20-1 - plan misses target of a Point	0.00 center by 888	0.00 0.00ft at 1920	0.00 04.57ft MD (	10,198.20 (8880.00 TVD,	-755.19 , 10198.20 N,	445,406.36 -755.19 E)	580,002.00	32.224437	-104.208299

Plan Annotations					
Me	easured	Vertical	Local Coord	dinates	
1	Depth	Depth	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	(ft)	Comment
	8,365.31	8,307.04	-314.00	-737.50	KOP @ 8365' MD, 50' FSL, 1310' FEL
	8,606.00	8,540.71	-264.18	-737.58	FTP @ 8606' MD, 100' FSL, 1310' FEL
1	13,903.00	8,880.00	4,896.64	-746.27	Cross section @ 13903' MD, 0' FSL, 1310' FEL
1	19,124.57	8,880.00	10,118.20	-755.06	LTP @ 19125' MD, 100' FNL, 1310' FEL
1	19,204.56	8,880.00	10,198.19	-755.19	PBHL; 20' FNL, 1310' FEL



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

**OPERATOR'S NAME: Devon Energy Production Company LP** NMNM112269 LEASE NO.: LOCATION: Section 29, T.24 S., R.27 E., NMPM Eddy County, New Mexico **COUNTY:** WELL NAME & NO.: Wyatt Earp 20-17 Fed Com 332H **SURFACE HOLE FOOTAGE:** 514'/N & 1995'/E 20'/N & 2200'/W BOTTOM HOLE FOOTAGE Wyatt Earp 20-17 Fed Com 333H WELL NAME & NO.: SURFACE HOLE FOOTAGE: 364'/S & 572.5'/E **BOTTOM HOLE FOOTAGE** 20'/N & 1310'/E Wyatt Earp 20-17 Fed Com 622H WELL NAME & NO.: 514'/N & 1965'/E **SURFACE HOLE FOOTAGE:** BOTTOM HOLE FOOTAGE 20'/N & 2200'/E Wyatt Earp 20-17 Fed Com 623H WELL NAME & NO.: **SURFACE HOLE FOOTAGE:** 364'/S & 542.5'/E 20'/N & 440'/E BOTTOM HOLE FOOTAGE WELL NAME & NO.: Wyatt Earp 20-17 Fed Com 734H 664'/N & 1965'/E **SURFACE HOLE FOOTAGE: BOTTOM HOLE FOOTAGE** 20'/N & 330'/E COA ☑ No H2S Yes Yes None None Secretary **R**-111-P Potash Cave/Karst Potential **Low** Medium High Critical Cave/Karst Potential Variance None None Flex Hose Other Wellhead Conventional Multibowl Both

Page 1 of 9

☐ Capitan Reef

✓ COM

▼ Cement Squeeze

□ WIPP

□ Unit

☐ Pilot Hole

**Approval Date: 09/09/2020** 

□ 4 String Area

▼ Fluid Filled

Special Requirements 

Water Disposal

Other

Other

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

#### 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**

#### **Alternate Casing Design:**

- 1. The 13-3/8 inch surface casing shall be set at approximately 375 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 shall be set at approximately 8595 feet is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
     Cement excess is less than 25%, more cement might be required.

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

# 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.

- 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 **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### D. SPECIAL REQUIREMENT (S)

#### **Communitization Agreement**

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

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- 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.

## **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 CountyCall 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 2<sup>nd</sup> 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

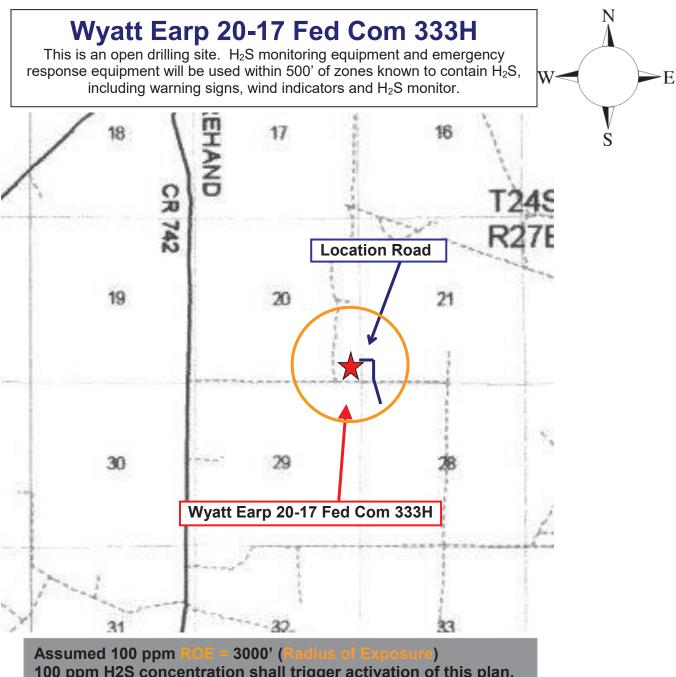
# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

Wyatt Earp 20-17 Fed Com 333H

Sec-20 T-24S R-27E 364' FSL & 572.5' FEL LAT. = 32.196400' N (NAD83) LONG = 104.205896' W

**Eddy County NM** 



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 H<sub>2</sub>S concentration shall trigger activation of this plan.

#### **Emergency Procedures**

In the event of a release of gas containing H<sub>2</sub>S, 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 H<sub>2</sub>S 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 (SO<sub>2</sub>). 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 H<sub>2</sub>S and SO<sub>2</sub>

Common	Chemical	Specific	Threshold	Hazardous	Lethal				
Name	Formula	Gravity	Limit	Limit	Concentration				
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm				
Sulfur Dioxide	SO <sub>2</sub>	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 (H<sub>2</sub>S) 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 (H<sub>2</sub>S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H<sub>2</sub>S 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:

- 1. The effects of H<sub>2</sub>S 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 H<sub>2</sub>S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

#### II. HYDROGEN SULFIDE TRAINING

Note: All H<sub>2</sub>S 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 H<sub>2</sub>S.

#### 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. H<sub>2</sub>S detection and monitoring equipment:

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S 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 H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

#### 5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.
- B. All elastomers used for packing and seals shall be H<sub>2</sub>S 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 H<sub>2</sub>S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

Drilling Su	ıpervisor – Basin – Mark Kramer	405-823-4796
EHS Prof	essional – Laura Wright	405-439-8129
<u>Agency</u>	Call List	
<u>Lea</u>	Hobbs	
<u>County</u>	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 O	Carlsbad	
County (575)	State Police	885-3137
<u>(575)</u>	City Police	885-2111
	Sheriff's Office	887-755
	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 (TX & NM)	(800) 642-7828
GPS	Flight For Life - Lubbock, TX	(806) 743-9911
position:	,	(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	

Prepared in conjunction with Dave Small