#### OCD Received 11/4/2020

Form 3160-3 (June 2015) UNITED STATH DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR NAGEMEN			OMB No Expires: Ja 5. Lease Serial No. NMNM045235	APPROVED b. 1004-0137 nuary 31, 2018
APPLICATION FOR PERMIT TO	DRILL OR	REENTER		6. If Indian, Allotee	or Tribe Name
1b. Type of Well:   ✓     ✓   Oil Well     ✓	REENTER Other Single Zone [	Multiple Zone		<ul> <li>7. If Unit or CA Agr</li> <li>8. Lease Name and V</li> <li>FIJI 17-5 FED CON</li> </ul>	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP				233H 9. API Well No. 30 015 47632	
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 731		Io. <i>(include area cod</i> 3611	e)	10. Field and Pool, c	
<ol> <li>Location of Well (<i>Report location clearly and in accordance</i> At surface SENE / 2330 FNL / 1310 FEL / LAT 32.30 At proposed prod. zone LOT 2 / 20 FNL / 1980 FEL / LA</li> </ol>	53318 / LON	G -103.795581	7775	11. Sec., T. R. M. or SEC 17/T23S/R311	Blk. and Survey or Area E/NMP
14. Distance in miles and direction from nearest town or post o				12. County or Parish EDDY	n 13. State NM
15. Distance from proposed* location to nearest 1310 feet property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No of a 480	cres in lease	17. Spacin 400.0	ng Unit dedicated to th	nis well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 361 feet				1/BIA Bond No. in file MB000801	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3336 feet	22. Approx 04/29/2021	mate date work will	start*	23. Estimated duration 45 days	on
	24. Attac	chments		1	
<ul> <li>The following, completed in accordance with the requirements (as applicable)</li> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Official Surveyor Survey</li></ul>	tem Lands, the	<ol> <li>Bond to cover th Item 20 above).</li> <li>Operator certific 6. Such other site sp</li> </ol>	e operation	s unless covered by an	ale per 43 CFR 3162.3-3 a existing bond on file (see may be requested by the
25. Signature		BLM. (Printed/Typed) Y HARMS / Ph: (8	00) 583-3	866	Date 05/04/2020
(Electronic Submission) Title Regulatory Compliance Professional					
Approved by (Signature) (Electronic Submission)		(Printed/Typed) Layton / Ph: (575)	234-5959		Date 10/23/2020
Title Assistant Field Manager Lands & Minerals	Office Carls	e bad Field Office			
Application approval does not warrant or certify that the application applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal	or equitable title to th	nose rights	in the subject lease wh	hich would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, of the United States any false, fictitious or fraudulent statement					ny department or agency
nuds are not to be used until fresh water zones are cased and cemen oil or diesel. This includes synthetic oils. Oil based mud, drilling flu in a steel closed loop system. Will require a directional survey with the C-104	ide and colide i		IONS	and the second second second second	d, to prevent ground water gh whole or partial conduits fro shall drill without interruption or zones and shall immediately tection string
SL	OVED WI	TH COMPA		KP 11/5/2	2020 GEO Review
(Continued on page 2)				*(Ins	structions on page 2)

Approval Date: 10/23/2020

Entered - KMS NMOCD

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u>

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

1000 Rio Brazos Road, 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 State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

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

AMENDED REPORT

			2		EAGE DEDIC				
PI Number 532		402	95 <sup>2 Pool Code</sup>	<sup>3</sup> Pool Name Los Medanos Bone Spring					
ode				<sup>5</sup> Property 1	Name			<sup>6</sup> Well Number	
				FIJI 17-5 FE	D COM			233H	
0.				<sup>8</sup> Operator 1	Name			<sup>9</sup> Elevation	
6137 DEVON ENERGY PRODUCTION COMPANY, L.P.								3336.4	
<sup>10</sup> Surface Location									
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
17	23 S	31 E		2330	NORTH	1310	EAST	Г EDDY	
		11 H	Bottom Ho	ole Location	If Different Fre	om Surface			
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
5	23 S	31 E		20	NORTH	1980	EAST	Г EDDY	
<sup>13</sup> Joint	or Infill <sup>14</sup> (	Consolidation	n Code			<sup>15</sup> Order No.			
0	de b. Section 17 Section 5	de Section Township 17 23 S Section Township 5 23 S	de D. DEV Section Township Range 17 23 S 31 E II J Section Township Range 5 23 S 31 E	de DEVON ENER Section Township Range Lot Idn 17 23 S 31 E <sup>11</sup> Bottom Ho Section Township Range Lot Idn 5 23 S 31 E	de <sup>5</sup> Property <sup>1</sup> FIJI 17-5 FE <sup>8</sup> Operator <sup>1</sup> DEVON ENERGY PRODUC <sup>10</sup> Surface <sup>10</sup> Surface	de <sup>5</sup> Property Name FIJI 17-5 FED COM <sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPAN <sup>10</sup> Surface Location Section Township Range Lot Idn Feet from the North/South line 17 23 S 31 E <sup>11</sup> Bottom Hole Location If Different Fro Section Township Range Lot Idn Feet from the North/South line S 23 S 31 E 20 NORTH	de <sup>5</sup> Property Name FIJI 17-5 FED COM <sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P. <sup>10</sup> Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the 17 23 S 31 E U Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the S 23 S 31 E 20 NORTH 1980	de <sup>5</sup> Property Name FIJI 17-5 FED COM <sup>8</sup> Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P. <sup>10</sup> Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the East/West 17 23 S 31 E U Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West 23 S 31 E 20 NORTH 1980 EAST	

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.

	N89'42'57"E 2639.89 FT IN89'42'57"E 2639.89 FT		17 OPERATOR CERTIFICATION
NW CORNER SEC. 5 LAT. = 32.3407513'N	L N/4 CORNER SEC. 5 SCALED BOTTOM	NE CORNER SEC. 5 LAT. = 32.3407510'N	I hereby certify that the information contained herein is true and complete
LONG. = 103.8084593'W NMSP EAST (FT)	B C F HOLE	LONG. = 103.7913679'W NMSP EAST (FT)	to the best of my knowledge and belief, and that this organization either
N = 488094.51 E = 703438.55	<sup>8</sup> <u>14</u> + <sup>1</sup> <sup>3</sup> 1 <sup>2</sup> + <sup>1</sup> − 1 <sup>1</sup>	N = 488120.70 <sup>°</sup> E = 708717.10	owns a working interest or unleased mineral interest in the land including
	LAST TAKE POINT BOTTOM OF HOLE		the proposed bottom hole location or has a right to drill this well at this
W/4 CORNER SEC. 5	Ž 100' FNL, 1980' FEL LAT. = 32.3406964'N LAT. = 32.3404766'N LONG. = 10.7977775'W	E/4 CORNER SEC. 5	location pursuant to a contract with an owner of such a mineral or working
SCALED	LONG. = 103.7977776'W NMSP EAST (FT) L N = 488090 88 L	ŚCALED	interest, or to a voluntary pooling agreement or a compulsory pooling order
	8 E = 706737,65 8		heretofore entered by the division.
	s = - + - sec - 5 - + s = c		Juny Hannes 4-30-2020
SECTION CORNER	16.20	SECTION CORNER	
LAT. = 32.3262579'N LONG. = 103.8084618'W	2 N89'43'03"E N81'43'03"E	LAT. = 32.3262572'N LONG. = 103.7913749'W	Signature / Date JENNY HARMS
NMSP EAST (FT) N = 482821.92	2639.71 FT QUARTER CORNER 2639.51 FT L SCALED L	NMSP EAST (FT) N = 482847.94	JEININ I HARIVIS
E = 703463.60	ARE SHOWN USING THE NORTH AMERICAN DATUM	E = 708741.61	Printed Name
	≥ PLANE EAST COORDINATES ARE GRID (NAD83).		JENNY.HARMS@DVN.COM
W/4 CORNER SEC. 8	영 BASIS OF BEARING AND DISTANCES USED ARE 2 NEW MEXICO STATE PLANE EAST COORDINATES 3 MODIFIED TO THE SURFACE. ELEVATION VALUES	E/4 CORNER SEC. 8	E-mail Address
LAT. = 32.3189800'N LONG. = 103.8083948'W	ARE NAVD88.	LAT. = 32.3189989'N LONG. = 103.7913664'W	
NMSP EAST (FT) N = 480174.34		NMSP EAST (FT) N = 480207.40	CLIDVENOD CEDTIFICATION
E = 703497.28	38.51	E = 708757.59	<sup>18</sup> SURVEYOR CERTIFICATION
	<sup>1%</sup> <u>QUARTER</u> <u>CORNER</u> <sup>2</sup> ≥ LAT. = 32 3117326'N		I hereby certify that the well location shown on this plat
SECTION CORNER	LONG. = 103.7998687'W	SECTION CORNER	was plotted from field notes of actual surveys made by
LAT. = 32.3117261'N LONG. = 103.8083913'W	8 N = 477550.82 N89'39'56"E E = 706144.24 N89'40'33"E	<pre>{ LAT. = 32.3117373'N LONG. = 103.7913521'W</pre>	me or under my supervision, and that the same is true
NMSP EAST (FT) N = 477535.44	2633.56 FT 2631.73 FT	NMSP EAST (FT) N = 477565.71	and correct to the best of my belief.
E = 703511.29	₹ FIJI 17-5 FED COM 233H \$ ELEV. = 3336.4'	E = 708775.36	
	<sup>®</sup> LAT. = 32.3053318 <sup>°</sup> N (1AD83)8 ≥ LONG. = 103.7955810 <sup>°</sup> M		MARCH 12, 2020
W/4 CORNER SEC. 17	NMSP EAST (FT) SURFACE N = 475228.85 LOCATION	E/4 CORNER SEC. 17	Date of Survey
LAT. = 32.3044702'N LONG. = 103.8083875'W	BE = 707480.58	8 LÁT. = 32.3044773'N LONG. = 103.7913406'W	
NMSP EAST (FT) N = 474895.81	2540' FNL, 1980' FEL FTP L LAT. = 32.3047534'N	NMSP EAST (FT) N = 474924.59	ANNO <b>ESTAN</b> A
E = 703525.38	B LONG. = 103.7977481'W SEC. 17	E = 708792.27	
SW CORNER SEC. 17 LAT. = 32.2971958'N	<sup>8</sup> → <u>S/4 CORNER SEC. 17</u> +	SE CORNER SEC. 17 LAT. = 32.2972174'N	Signature and Seal of Fight sional Surveyor:
LONG. = 103.8083921'W NMSP EAST (FT)	LONG. = 103.7998470'W NMSP EAST (FT)	5 LONG. = 103.7913314'W 5 NMSP EAST (FT)	Certificate Number: EXTADAS LARAMILLO, LS 12797
N = 472249.42 E = 703536.92	2 N = 472269.45 E = 706177.25	5 N = 472283.52' E = 708808.46	PROF5558 VALO. 8046
	\$89'33'55"W 2640.98 FT \$89'41'38"W 2631.82 FT		

Intent	Х	As Drilled	l
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API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	FIJI 17-5 FED COM	233H

#### Kick Off Point (KOP)

UL G	Section 17	Township 23S	Range 31E	Lot	Feet 2380 FNL	From N/S	Feet 1980 FEL	From E/W	County EDDY
Latitu 32.3	<sup>de</sup> 805204	Ļ			Longitude -103.797	751			NAD 83

#### First Take Point (FTP)

UL G	Section 17	Township 23S	Range 31E	Lot	Feet 2540	From N/S NORTH	Feet 1980	From E/W EAST	County EDDY
Latitude				Longitude		NAD			
32.3	304753	4			103.7977	7481			83

#### Last Take Point (LTP)

UL B	Section 5	Township 23 <b>S</b>	Range 31E	Lot 2	Feet 100	From N/S NORTH	Feet 1980	From E/W EAST	County EDDY
Latitu	de				Longitud	le			NAD
32.3	840476	6			103.7	977776			83

Is this well the defining well for the Horizontal Spacing Unit? YES

Is this well an infill well?

NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Devon & OGRID No.: Devon Energy Production Co., L.P. 6137

#### GAS CAPTURE PLAN

Date: April 30, 2020

 $\boxtimes$  Original

□ Amended - Reason for Amendment:

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	Footages	Expected	Flared or	Comments
		Location	_	MCF/D	Vented	
FIJI 17-5 FED COM 124H		LOT G, 17-23S-31E	2180 FNL 1670 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 125H		LOT G, 17-23S-31E	2180 FNL 1640 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 126H		LOT G, 17-23S-31E	2180 FNL 1610 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 233H		LOT H, 17-23S-31E	2330 FNL 1310 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 234H		LOT H, 17-23S-31E	2330 FNL 1280 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 333H		LOT G, 17-23S-31E	2330 FNL 1610 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 334H		LOT H, 17-23S-31E	2480 FNL 1280 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 623H		LOT G, 17-23S-31E	2330 FNL 1670 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 624H		LOT G, 17-23S-31E	2480 FNL 1340 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 713H		LOT G, 17-23S-31E	2330 FNL 1640 FEL			FIJI 17 CTB 1
FIJI 17-5 FED COM 714H		LOT H, 17-23S-31E	2480 FNL 1310 FEL			FIJI 17 CTB 1

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

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

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on <u>DCP</u> system at that time. Based on current information, it is <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
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
  - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

#### **Reference Table:**

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

# AFMSS

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

APD ID: 10400056734

Submission Date: 05/04/2020

Highlighted data reflects the most recent changes

11/03/2020

Drilling Plan Data Report

Well Name: FIJI 17-5 FED COM

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Type: OIL WELL

Well Number: 233H

Show Final Text

Well Work Type: Drill

# **Section 1 - Geologic Formations**

Formation			True Vertical	Measured			Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	Formation
727544	UNKNOWN	3339	0	0	OTHER : SURFACE	NONE	N
727545	RUSTLER	2929	410	410	SANDSTONE	NONE	N
727546	SALADO	2619	720	720	SALT	NONE	N
727547	BASE OF SALT	-491	3830	3830	ANHYDRITE	NATURAL GAS, OIL	N
727548	BELL CANYON	-741	4080	4080	SANDSTONE	NATURAL GAS, OIL	N
727549	CHERRY CANYON	-1671	5010	5010	SANDSTONE	NATURAL GAS, OIL	N
727550	BRUSHY CANYON	-2971	6310	6310	SANDSTONE	NATURAL GAS, OIL	N
727557	BONE SPRING LIME	-4645	7984	7984	LIMESTONE	NATURAL GAS, OIL	N
727551	BONE SPRING	-5744	9083	9083	SANDSTONE	NATURAL GAS, OIL	N
727553	BONE SPRING 2ND	-6278	9617	9617	SANDSTONE	NATURAL GAS, OIL	Y
727558	BONE SPRING LIME	-6816	10155	10155	LIMESTONE	NATURAL GAS, OIL	N
727554	BONE SPRING 3RD	-7461	10800	10800	SANDSTONE	NATURAL GAS, OIL	N
727555	WOLFCAMP	-7891	11230	11230	SHALE	NATURAL GAS, OIL	N
727556	STRAWN	-9511	12850	12850	LIMESTONE	NATURAL GAS, OIL	N

# **Section 2 - Blowout Prevention**

#### 1. Geologic Formations

TVD of target	10037	Pilot hole depth	N/A
MD at TD:	22736	Deepest expected fresh water	

Basin

	Dan4h	Water/Mineral	
	Depth		
Formation	(TVD)	<b>Bearing/Target</b>	Hazards*
	from KB	Zone?	
Rustler	410		
Salt	720		
Base of Salt	3830		
Delaware	4080		
Bone Spring 1st	9083		
Bone Spring 2nd	9617		
Bone Spring 3rd	10800		
Wolfcamp	11230		

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	BTC	0	435	0	435
12 1/4	9 5/8	40	J-55	BTC	0	4055	0	4055
8 3/4	5 1/2	17	P110	BTC	0	22736	0	10037

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

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	353	Surf	13.2	1.4	Lead: Class C Cement + additives
Int 1	439	Surf	9.0	3.3	Lead: Class C Cement + additives
Int 1	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1	As Needed	Surf	9.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	439	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	506	500' tieback	9.0	3.3	Lead: Class H /C + additives
roduction	2555	KOP	13.2	1.4	Tail: Class H / C + additives

#### 3. Cementing Program (3-String Primary Design)

Casing String	% Excess
Surface	50%
Intermediate	30%
Production	10%

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	✓	Tested to:									
			Anı	Annular		50% of rated working pressure									
Int 1	13-58"	5M	Blind	d Ram	Х										
Int I	13-38	JIVI	Pipe	Ram		5M									
			Doub	le Ram	Х	- 5M									
			Other*												
	13-5/8"	5M	Annular		Х	50% of rated working pressure									
Production			Blind	d Ram	Х										
Fioduction			5101	5111	5111	5101	5101	5101	5101	5101	5101	Pipe	Ram		5M
			Double Ram		Х	JIVI									
			Other*												
			Annul	ar (5M)											
			Bline	d Ram											
			Pipe	Ram											
			Doub	le Ram											
			Other*												

#### 4. Pressure Control Equipment (Three String Design)

#### 5. Mud Program (Three String Design)

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

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

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

#### 6. Logging and Testing Procedures

Logging, C	oring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
Х	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.

Additiona	l logs planned	Interval
	Resistivity	
	Density	
Х	CBL	Production casing
Х	Mud log	KOP to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4697
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.

Ν	H2S is present
Y	H2S plan attached.

#### 8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).

 $^{3}$  The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

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

#### Attachments

X Directional Plan Other, describe

# WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 17-T23S-R31E Fiji 17-5 Fed Com 233H

Wellbore #1

Plan: Permit Plan 1

# **Standard Planning Report - Geographic**

26 April, 2020

	E	DM r5000.	141_Pro	od US		Local Co	ordinate Refe	rence:	Well Fiji 17-5 F	ed Com 233H	
Company:		VCDSC Per				TVD Refe			RKB @ 3361.4		
Project:		ddy County		33 NM Ea	stern)	MD Refer			RKB @ 3361.4	Oft	
Site:		Sec 17-T238		2011		North Re			Grid Minimum Our	- 4	
Well: Wellbore:		iji 17-5 Fed Vellbore #1	Com 23	33H		Survey C	alculation Met	noa:	Minimum Curva	ature	
Design:		Permit Plan	1								
Project		dy County		3 NM Eas	tern)						
Map System:		State Plane th Americar		1002		System Da	tum:	Me	ean Sea Level		
Geo Datum: Map Zone:		v Mexico Ea									
Map Zolle.	INCV			one							
Site	Se	ec 17-T23S	-R31E								
Site Position:					Northing:	477	,535.44 usft	Latitude:			32.31172
From:		Мар			Easting:	703	3,511.29 usft	Longitude:			-103.80839
Position Uncer	tainty:		(	0.00 ft	Slot Radius:		13-3/16 "	Grid Converg	jence:		0.28
Well	Fij	i 17-5 Fed (	Com 233	ЗH							
Well Position	+1	1/-S		0.00 ft	Northing:		475,228.85	5 usft Lat	itude:		32.30533
	+E	/-W		0.00 ft	Easting:		707,480.58	Busft Lor	ngitude:		-103.79558
Position Uncer	tainty			0.50 ft	Wellhead El	evation:		Gro	ound Level:		3,336.40
Wellbore	M	/ellbore #1									
	V										
Magnetics		Model Na	ame	5	Sample Date	Declina (°)		Dip A (	Angle °)		Strength nT)
		IG	RF2015	i	4/13/2020	)	6.76		60.07	47,6	73.10732147
Design	Pe	ermit Plan 1									
Audit Notes:											
Version:					Phase:	PROTOTYPE	Tie	on Depth:		0.00	
Vertical Section											
	n:		I	Depth Fro		+N/-S			Di	rection	
	n:		Γ	(f	:)	(ft)	(	ft)		(°)	
	n:		[	-	:)		(				
Plan Survey To			Date	(f	<b>;)</b> 00	(ft)	(	ft)		(°)	
Plan Survey To Depth Fro	ool Progra	Depth To	Date	(fr 0.0 4/26/20	i) )0 )20	(ft) 0.00	(	<b>ft)</b> .00		(°)	
Plan Survey To	ool Progra		Date	(fi 0.0	i) )0 )20	(ft)	(	ft)		(°)	
Plan Survey To Depth Fro	ool Progra	Depth To (ft)	Date Survey	(fr 0.0 4/26/20	i) )0 )20	(ft) 0.00 Tool Name MWD+HDGM	( 0. 1	<b>ft)</b> .00		(°)	
Plan Survey To Depth Fro (ft)	ool Progra om I	Depth To (ft)	Date Survey	(fr 0.0 4/26/20	) )0 )20 (re)	(ft) 0.00 Tool Name	( 0. 1	<b>ft)</b> .00		(°)	
Plan Survey To Depth Fro (ft)	ool Progra om I	Depth To (ft)	Date Survey	(fr 0.0 4/26/20	) )0 )20 (re)	(ft) 0.00 Tool Name MWD+HDGM	( 0. 1	<b>ft)</b> .00		(°)	
Plan Survey To Depth Fra (ft) 1 Plan Sections	ool Progra om I	Depth To (ft)	Date Survey	(ff 0.0 4/26/20 7 (Wellbor Plan 1 (V	() )0 )20 (e) /ellbore #1)	(ft) 0.00 Tool Name MWD+HDGM	( 0. / / / / + HDGM	ft) .00 Remarks	3	(°)	
Plan Survey To Depth Fro (ft) 1	ool Progra om I	Depth To (ft) 22,736.49	Date Survey Permit	(fr 0.0 4/26/20	() )0 )20 (ellbore #1)	(ft) 0.00 Tool Name MWD+HDGM	( 0. 1	<b>ft)</b> .00		(°)	
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured	ool Prograi om l 0.00	Depth To (ft) 22,736.49	Date Survey Permit	(ff 0.0 4/26/20 7 (Wellbor Plan 1 (V Vertica	() )0 )20 (ellbore #1)	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD	( 0. + HDGM	ft) .00 Remarks Build	Turn	(°) 156.68	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth	ool Program om 1 0.00 Inclinatic (°)	Depth To (ft) 22,736.49	Date Survey Permit	(ff 0.0 4/26/20 Plan 1 (V Vertica Deptr (ft)	(t) (t) (t) (t) (t) (t) (t) (t)	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft)	( 0. + HDGM Dogleg Rate	ft) .00 Remarks Build Rate	Turn Rate	(°) 1556.68 TFO (°)	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft)	ool Prograi om l 0.00 Inclinatic (°)	Depth To (ft) 22,736.49 on Azin (°	Date Survey Permit Puth	(ff 0.0 4/26/20 Plan 1 (V Vertica Deptr (ft)	() )0 )20 (e) (ellbore #1) (ft) 0.00 0.	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft)	( 0. + HDGM Dogleg Rate (°/100usft)	ft) .00 Remarks Build Rate (°/100usft)	Turn Rate (°/100usft) 0.00	(°) 156.68 TFO	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00	ool Program om 1 0.00 Inclinatio (°) 0 0	Depth To (ft) 22,736.49 Dn Azin (* 1.00	Date Survey Permit	(ff 0.0 4/26/20 7 (Wellbor Plan 1 (V Vertica Deptr (ft)	() )0 )20 (e) (ellbore #1) (ft) 0.00 0. 0.00 0.	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 00 0.00 00 0.00	( 0. + HDGM Dogleg Rate (°/100usft) 0.00	ft) .00 Remarks Build Rate (°/100usft) 0.00	Turn Rate (°/100usft) 0.00 0.00	(°) 156.68 TFO (°) 0.00	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00	ool Program om 1 0.00 Inclinatio (°) 0 0 5	Depth To (ft) 22,736.49 Dn Azin (° 0.00 .00 .79	Date Survey Permit	(ff 0.0 4/26/20 7 (Wellbor Plan 1 (V Vertica Deptr (ft) 2,00	() )0 )20 (e) (ellbore #1) (ft) ).00 0. 0.00 0. 0.00 0. 7.53 -2.	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 00 0.00 00 0.00 17 -29.10	( 0. + HDGM <b>Dogleg</b> Rate (°/100usft) 0.00 0.00	ft) .00 Remarks Build Rate (°/100usft) 0.00 0.00	Turn Rate (°/100usft) 0.00 0.00 0.00	(°) 156.68 TFO (°) 0.00 0.00	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,578.51	ool Program om 1 0.00 Inclinatio (°) 0 0 5 5	Depth To (ft) 22,736.49 Dn Azin (° 0.00 .00 .79	Date Survey Permit Permit 0.00 0.00 265.73	(ff 0.0 4/26/20 7 (Wellbox Plan 1 (V Vertica Depth (ft) 2,000 2,57	() )0 )20 ()20	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 00 0.00 00 0.00 17 -29.10 55 -650.60	( 0. + HDGM <b>Dogleg</b> Rate (°/100usft) 0.00 0.00 1.00	ft) .00 Remarks Build Rate (°/100usft) 0.00 0.00 1.00	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00	(°) 156.68 TFO (°) 0.00 0.00 265.73	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,578.51 8,761.45	ool Program om 1 0.00 Inclinatic (°) 0 0 5 5 0	Depth To (ft) 22,736.49 22,736.49 00 00 00 00 00 00 00 00 00 00 00 00 00	Date Survey Permit Permit 0.00 0.00 265.73 265.73	(ff 0.0 4/26/20 7 (Wellbox Plan 1 (V Vertica Deptr (ft) 0 2,000 2,57 8,720	() )0 )20 (20 ()20	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 00 0.00 00 0.00 17 -29.10 55 -650.60 00 -670.00	( 0. 0. 0 + HDGM Dogleg Rate (°/100usft) 0.00 0.00 1.00 0.00	ft) .00 Remarks Build Rate (°/100usft) 0.00 0.00 1.00 0.00	3 Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00	(°) 156.68 TFO (°) 0.00 0.00 265.73 0.00	Target
Plan Survey To Depth Fro (ft) 1 Plan Sections Measured Depth (ft) 0.00 2,000.00 2,578.51 8,761.45 9,147.13	001 Program om 1 0.00 Inclinatic (°) 0 0 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Depth To (ft) 22,736.49 22,736.49 00 00 00 00 00 00 00 00 00 00 00 00 00	Date Survey Permit Permit 0.00 0.00 265.73 265.73 0.00	(ff 0.0 4/26/20 7 (Wellbox Plan 1 (V Vertica Deptr (ft) 0 2,000 2,57 8,720 9,11-	() )0 )20 (20 (20 (20 (20 (20) (20) (20) (20) (1) (1) (1) (1) (1) (1) (1) (1	(ft) 0.00 Tool Name MWD+HDGM OWSG MWD +E/-W (ft) 00 0.00 00 0.00 17 -29.10 55 -650.60 00 -670.00 00 -670.00	( 0. 0. 0 + HDGM Dogleg Rate ('/100usft) 0.00 0.00 1.00 0.00 1.50	ft) .00 Remarks Remarks Build Rate (°/100usft) 0.00 0.00 1.00 0.00 -1.50	Turn Rate (°/100usft) 0.00 0.00 0.00 0.00 0.00 0.00 0.00	(°) 156.68 TFO (°) 0.00 0.00 265.73 0.00 180.00 0.00	Target

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 233H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3361.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3361.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 233H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 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	475,228.85	707,480.58	32.305332	-103.795581
100.00		0.00	100.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
200.00		0.00	200.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
300.00		0.00	300.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
400.00 500.00		0.00	400.00 500.00	0.00 0.00	0.00	475,228.85 475,228.85	707,480.58	32.305332	-103.795581 -103.795581
600.00		0.00	600.00		0.00		707,480.58	32.305332	-103.795581
700.00		0.00 0.00	700.00	0.00 0.00	0.00 0.00	475,228.85 475,228.85	707,480.58 707,480.58	32.305332 32.305332	-103.795581
800.00		0.00	800.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
900.00		0.00	900.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,000.00		0.00	1,000.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,100.00		0.00	1,100.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,200.00		0.00	1,200.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,300.00		0.00	1,300.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,400.00		0.00	1,400.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,500.00		0.00	1,500.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,600.00		0.00	1,600.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,700.00		0.00	1,700.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,800.00		0.00	1,800.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
1,900.00		0.00	1,900.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
2,000.00		0.00	2,000.00	0.00	0.00	475,228.85	707,480.58	32.305332	-103.795581
2,100.00		265.73	2,099.99	-0.06	-0.87	475,228.79	707,479.71	32.305332	-103.795584
2,200.00		265.73	2,199.96	-0.26	-3.48	475,228.59	707,477.10	32.305331	-103.795593
2,300.00		265.73	2,299.86	-0.58	-7.83	475,228.27	707,472.75	32.305330	-103.795607
2,400.00		265.73	2,399.68	-1.04	-13.92	475,227.81	707,466.66	32.305329	-103.795626
2,500.00		265.73	2,499.37	-1.62	-21.74	475,227.23	707,458.83	32.305328	-103.795652
2,578.51	5.79	265.73	2,577.53	-2.17	-29.10	475,226.68	707,451.48	32.305326	-103.795675
2,600.00	5.79	265.73	2,598.91	-2.33	-31.26	475,226.52	707,449.32	32.305326	-103.795682
2,700.00	5.79	265.73	2,698.40	-3.08	-41.31	475,225.77	707,439.26	32.305324	-103.795715
2,800.00	5.79	265.73	2,797.89	-3.83	-51.36	475,225.02	707,429.21	32.305322	-103.795748
2,900.00	5.79	265.73	2,897.38	-4.58	-61.42	475,224.27	707,419.16	32.305320	-103.795780
3,000.00	5.79	265.73	2,996.87	-5.33	-71.47	475,223.52	707,409.11	32.305318	-103.795813
3,100.00	5.79	265.73	3,096.36	-6.08	-81.52	475,222.77	707,399.06	32.305316	-103.795845
3,200.00	5.79	265.73	3,195.85	-6.83	-91.57	475,222.02	707,389.00	32.305314	-103.795878
3,300.00	5.79	265.73	3,295.34	-7.58	-101.62	475,221.27	707,378.95	32.305312	-103.795910
3,400.00	5.79	265.73	3,394.83	-8.33	-111.67	475,220.52	707,368.90	32.305310	-103.795943
3,500.00	5.79	265.73	3,494.32	-9.08	-121.73	475,219.77	707,358.85	32.305309	-103.795975
3,600.00	5.79	265.73	3,593.82	-9.83	-131.78	475,219.02	707,348.80	32.305307	-103.796008
3,700.00	5.79	265.73	3,693.31	-10.58	-141.83	475,218.27	707,338.75	32.305305	-103.796040
3,800.00	5.79	265.73	3,792.80	-11.33	-151.88	475,217.52	707,328.69	32.305303	-103.796073
3,900.00		265.73	3,892.29	-12.08	-161.93	475,216.77	707,318.64	32.305301	-103.796106
4,000.00		265.73	3,991.78	-12.83	-171.99	475,216.02	707,308.59	32.305299	-103.796138
4,100.00		265.73	4,091.27	-13.58	-182.04	475,215.27	707,298.54	32.305297	-103.796171
4,200.00		265.73	4,190.76	-14.34	-192.09	475,214.52	707,288.49	32.305295	-103.796203
4,300.00		265.73	4,290.25	-15.09	-202.14	475,213.77	707,278.43	32.305293	-103.796236
4,400.00		265.73	4,389.74	-15.84	-212.19	475,213.02	707,268.38	32.305291	-103.796268
4,500.00		265.73	4,489.23	-16.59	-222.25	475,212.27	707,258.33	32.305289	-103.796301
4,600.00		265.73	4,588.72	-17.34	-232.30	475,211.52	707,248.28	32.305287	-103.796333
4,700.00		265.73	4,688.21	-18.09	-242.35	475,210.76	707,238.23	32.305285	-103.796366
4,800.00		265.73	4,787.70	-18.84	-252.40	475,210.01	707,228.18	32.305284	-103.796398
4,900.00		265.73	4,887.19	-19.59	-262.45	475,209.26	707,218.12	32.305282	-103.796431
5,000.00		265.73	4,986.68	-20.34	-272.50	475,208.51	707,208.07	32.305280	-103.796464
5,100.00		265.73	5,086.18	-21.09	-282.56	475,207.76	707,198.02	32.305278	-103.796496
5,200.00		265.73	5,185.67	-21.84	-292.61	475,207.01	707,187.97	32.305276	-103.796529
5,300.00	5.79	265.73	5,285.16	-22.59	-302.66	475,206.26	707,177.92	32.305274	-103.796561

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 233H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3361.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3361.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 233H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	. ,	. ,	Latitude	Longitude
5,400.00		265.73	5,384.65	-23.34	-312.71	475,205.51	707,167.86	32.305272	-103.796594
5,500.00		265.73	5,484.14	-24.09	-322.76	475,204.76	707,157.81	32.305270	-103.796626
5,600.00		265.73	5,583.63	-24.84	-332.82	475,204.01	707,147.76	32.305268	-103.796659
5,700.00		265.73	5,683.12	-25.59	-342.87	475,203.26	707,137.71	32.305266	-103.796691
5,800.00		265.73	5,782.61	-26.34	-352.92	475,202.51	707,127.66	32.305264	-103.796724
5,900.00		265.73	5,882.10	-27.09	-362.97	475,201.76	707,117.61	32.305262	-103.796756
6,000.00		265.73	5,981.59	-27.84	-373.02	475,201.01	707,107.55	32.305260	-103.796789
6,100.00		265.73	6,081.08	-28.59	-383.07	475,200.26	707,097.50	32.305259	-103.796822
6,200.00	5.79	265.73	6,180.57	-29.34	-393.13	475,199.51	707,087.45	32.305257	-103.796854
6,300.00		265.73	6,280.06	-30.09	-403.18	475,198.76	707,077.40	32.305255	-103.796887
6,400.00		265.73	6,379.55	-30.84	-413.23	475,198.01	707,067.35	32.305253	-103.796919
6,500.00		265.73	6,479.05	-31.59	-423.28	475,197.26	707,057.29	32.305251	-103.796952
6,600.00		265.73	6,578.54	-32.34	-433.33	475,196.51	707,047.24	32.305249	-103.796984
6,700.00		265.73	6,678.03	-33.09	-443.39	475,195.76	707,037.19	32.305247	-103.797017
6,800.00		265.73	6,777.52	-33.84	-453.44	475,195.01	707,027.14	32.305245	-103.797049
6,900.00		265.73	6,877.01	-34.59	-463.49	475,194.26	707,017.09	32.305243	-103.797082
7,000.00		265.73	6,976.50	-35.34	-473.54	475,193.51	707,007.04	32.305241	-103.797114
7,100.00		265.73	7,075.99	-36.09	-483.59	475,192.76	706,996.98	32.305239	-103.797147
7,200.00		265.73	7,175.48	-36.84	-493.65	475,192.01	706,986.93	32.305237	-103.797180
7,300.00		265.73	7,274.97	-37.59	-503.70	475,191.26	706,976.88	32.305235	-103.797212
7,400.00		265.73	7,374.46	-38.34	-513.75	475,190.51	706,966.83	32.305234	-103.797245
7,500.00		265.73	7,473.95	-39.09	-523.80	475,189.76	706,956.78	32.305232	-103.797277
7,600.00		265.73	7,573.44	-39.84	-533.85	475,189.01	706,946.72	32.305230	-103.797310
7,700.00		265.73	7,672.93	-40.59	-543.90	475,188.26	706,936.67	32.305228	-103.797342
7,800.00		265.73	7,772.42	-41.34	-553.96	475,187.51	706,926.62	32.305226	-103.797375
7,900.00		265.73	7,871.91	-42.09	-564.01	475,186.76	706,916.57	32.305224	-103.797407
8,000.00		265.73	7,971.41	-42.84	-574.06	475,186.01	706,906.52	32.305222	-103.797440
8,100.00		265.73	8,070.90	-43.59	-584.11	475,185.26	706,896.47	32.305220	-103.797472
8,200.00		265.73	8,170.39	-44.34	-594.16	475,184.51	706,886.41	32.305218	-103.797505
8,300.00		265.73	8,269.88	-45.09	-604.22	475,183.76	706,876.36	32.305216	-103.797538
8,400.00		265.73	8,369.37	-45.84	-614.27	475,183.01	706,866.31	32.305214	-103.797570
8,500.00		265.73	8,468.86	-46.59	-624.32	475,182.26	706,856.26	32.305212	-103.797603
8,600.00		265.73	8,568.35	-47.34	-634.37	475,181.51	706,846.21	32.305210	-103.797635
8,700.00		265.73	8,667.84	-48.09	-644.42	475,180.76	706,836.15	32.305209	-103.797668
8,761.45		265.73	8,728.98	-48.55	-650.60	475,180.30	706,829.98	32.305207	-103.797688
8,800.00		265.73	8,767.35	-48.83	-654.28	475,180.02	706,826.30	32.305207	-103.797700
8,900.00		265.73	8,867.04	-49.41	-662.03	475,179.45	706,818.55	32.305205	-103.797725
9,000.00		265.73	8,966.91	-49.79	-667.17	475,179.06	706,813.40	32.305204	-103.797741
9,100.00	0.71	265.73	9,066.87	-49.98	-669.71	475,178.87	706,810.87	32.305204	-103.797750
9,147.13		0.00	9,114.00	-50.00	-670.00	475,178.85	706,810.58	32.305204	-103.797751
9,200.00	0.00	0.00	9,166.87	-50.00	-670.00	475,178.85	706,810.58	32.305204	-103.797751
9,300.00	0.00	0.00	9,266.87	-50.00	-670.00	475,178.85	706,810.58	32.305204	-103.797751
9,400.00		0.00	9,366.87	-50.00	-670.00	475,178.85	706,810.58	32.305204	-103.797751
9,497.17		0.00	9,464.04	-50.00	-670.00	475,178.85	706,810.58	32.305204	-103.797751
	TP @ 9497' M	-	-						
9,500.00		359.66	9,466.87	-49.99	-670.00	475,178.86	706,810.58	32.305204	-103.797751
9,600.00	10.28	359.66	9,566.32	-40.80	-670.05	475,188.05	706,810.52	32.305229	-103.797751
9,700.00	20.28	359.66	9,662.66	-14.47	-670.21	475,214.38	706,810.37	32.305301	-103.797751
9,800.00	30.28	359.66	9,752.97	28.18	-670.46	475,257.03	706,810.12	32.305419	-103.797751
9,900.00		359.66	9,834.50	85.87	-670.80	475,314.72	706,809.78	32.305577	-103.797751
10,000.00	50.28	359.66	9,904.77	156.84	-671.22	475,385.69	706,809.36	32.305772	-103.797751
10,100.00	60.28	359.66	9,961.65	238.93	-671.70	475,467.78	706,808.88	32.305998	-103.797751
10,200.00	70.28	359.66	10,003.41	329.65	-672.23	475,558.50	706,808.34	32.306247	-103.797752
10,300.00	80.28	359.66	10,028.78	426.25	-672.80	475,655.10	706,807.78	32.306513	-103.797752

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 233H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3361.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3361.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 233H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth (ft)	Inclination	Azimuth	Vertical Depth (ft)	+N/-S	+E/-W	Map Northing (usft)	Map Easting (usft)		
	(°)	(°)		(ft)	(ft)	(usit)		Latitude	Longitude
10,397.17		359.66	10,037.00	522.95	-673.37	475,751.80	706,807.21	32.306779	-103.797752
10,400.00		359.66	10,037.00	525.78	-673.39	475,754.63	706,807.19	32.306786	-103.797752
10,500.00		359.66	10,037.00	625.78	-673.97	475,854.63	706,806.60	32.307061	-103.797752
10,600.00		359.66	10,037.00	725.78	-674.56	475,954.63	706,806.02	32.307336	-103.797753
10,700.00		359.66	10,037.00	825.77	-675.15	476,054.62	706,805.43	32.307611	-103.797753
10,800.00		359.66	10,037.00	925.77	-675.74	476,154.62	706,804.84	32.307886	-103.797753
10,900.00		359.66	10,037.00	1,025.77	-676.33	476,254.62	706,804.25	32.308161	-103.797754
11,000.00		359.66	10,037.00	1,125.77	-676.91	476,354.62	706,803.66	32.308436	-103.797754
11,100.00		359.66	10,037.00	1,225.77	-677.50	476,454.62	706,803.07	32.308710	-103.797754
11,200.00		359.66	10,037.00	1,325.77	-678.09	476,554.61	706,802.49	32.308985	-103.797754
11,300.00		359.66	10,037.00	1,425.76	-678.68	476,654.61	706,801.90	32.309260	-103.797755
11,400.00		359.66	10,037.00	1,525.76	-679.27	476,754.61	706,801.31	32.309535	-103.797755
11,500.00		359.66	10,037.00	1,625.76	-679.85	476,854.61	706,800.72	32.309810	-103.797755
11,600.00		359.66	10,037.00	1,725.76	-680.44	476,954.61	706,800.13	32.310085	-103.797756
11,700.00		359.66	10,037.00	1,825.76	-681.03	477,054.60	706,799.55	32.310360	-103.797756
11,800.00		359.66	10,037.00	1,925.76	-681.62	477,154.60	706,798.96	32.310635	-103.797756
11,900.00		359.66	10,037.00	2,025.75	-682.21	477,254.60	706,798.37	32.310910	-103.797756
12,000.00		359.66	10,037.00	2,125.75	-682.79	477,354.60	706,797.78	32.311184	-103.797757
12,100.00		359.66	10,037.00	2,225.75	-683.38	477,454.60	706,797.19	32.311459	-103.797757
12,200.00		359.66	10,037.00	2,325.75	-683.97	477,554.59	706,796.61	32.311734	-103.797757
12,204.00		359.66	10,037.00	2,329.75	-683.99	477,558.59	706,796.58	32.311745	-103.797757
	ection @ 1220								
12,300.00		359.66	10,037.00	2,425.75	-684.56	477,654.59	706,796.02	32.312009	-103.797758
12,400.00		359.66	10,037.00	2,525.74	-685.15	477,754.59	706,795.43	32.312284	-103.797758
12,500.00		359.66	10,037.00	2,625.74	-685.74	477,854.59	706,794.84	32.312559	-103.797758
12,600.00		359.66	10,037.00	2,725.74	-686.32	477,954.59	706,794.25	32.312834	-103.797759
12,700.00		359.66	10,037.00	2,825.74	-686.91	478,054.58	706,793.67	32.313109	-103.797759
12,800.00		359.66	10,037.00	2,925.74	-687.50	478,154.58	706,793.08	32.313383	-103.797759
12,900.00		359.66	10,037.00	3,025.74	-688.09	478,254.58	706,792.49	32.313658	-103.797759
13,000.00		359.66	10,037.00	3,125.73	-688.68	478,354.58	706,791.90	32.313933	-103.797760
13,100.00		359.66	10,037.00	3,225.73	-689.26	478,454.58	706,791.31	32.314208	-103.797760
13,200.00		359.66	10,037.00	3,325.73	-689.85	478,554.58	706,790.73	32.314483	-103.797760
13,300.00		359.66	10,037.00	3,425.73	-690.44	478,654.57	706,790.14	32.314758	-103.797761
13,400.00		359.66	10,037.00	3,525.73	-691.03	478,754.57	706,789.55	32.315033	-103.797761
13,500.00		359.66	10,037.00	3,625.73	-691.62	478,854.57	706,788.96	32.315308	-103.797761
13,600.00		359.66	10,037.00	3,725.72	-692.20	478,954.57	706,788.37	32.315582	-103.797761
13,700.00		359.66	10,037.00	3,825.72	-692.79	479,054.57	706,787.79	32.315857	-103.797762
13,800.00		359.66	10,037.00	3,925.72	-693.38	479,154.56	706,787.20	32.316132	-103.797762
13,900.00		359.66	10,037.00	4,025.72	-693.97	479,254.56	706,786.61	32.316407	-103.797762
14,000.00		359.66	10,037.00	4,125.72	-694.56	479,354.56	706,786.02	32.316682	-103.797763
14,100.00		359.66	10,037.00	4,225.72	-695.14	479,454.56	706,785.43	32.316957	-103.797763
14,200.00		359.66	10,037.00	4,325.71	-695.73	479,554.56	706,784.85	32.317232	-103.797763
14,300.00		359.66	10,037.00	4,425.71	-696.32	479,654.55	706,784.26	32.317507	-103.797763
14,400.00		359.66	10,037.00	4,525.71	-696.91	479,754.55	706,783.67	32.317781	-103.797764
14,500.00		359.66	10,037.00	4,625.71	-697.50	479,854.55	706,783.08	32.318056	-103.797764
14,600.00		359.66	10,037.00	4,725.71	-698.08	479,954.55	706,782.49	32.318331	-103.797764
14,700.00		359.66	10,037.00	4,825.71	-698.67	480,054.55	706,781.90	32.318606	-103.797765
14,800.00		359.66	10,037.00	4,925.70	-699.26	480,154.54	706,781.32	32.318881	-103.797765
14,900.00		359.66	10,037.00	5,025.70	-699.85	480,254.54	706,780.73	32.319156	-103.797765
15,000.00		359.66	10,037.00	5,125.70	-700.44	480,354.54	706,780.14	32.319431	-103.797765
15,100.00		359.66	10,037.00	5,225.70	-701.02	480,454.54	706,779.55	32.319706	-103.797766
15,200.00		359.66	10,037.00	5,325.70	-701.61	480,554.54	706,778.96	32.319980	-103.797766
15,300.00		359.66	10,037.00	5,425.69	-702.20	480,654.53	706,778.38	32.320255	-103.797766 -103.797767
15,400.00	90.00	359.66	10,037.00	5,525.69	-702.79	480,754.53	706,777.79	32.320530	-103./9//0/

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 233H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3361.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3361.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 233H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
						100.054.50	700 777 00		-
15,500.00		359.66	10,037.00	5,625.69	-703.38	480,854.53 480,954.53	706,777.20 706,776.61	32.320805	-103.797767
15,600.00		359.66 359.66	10,037.00	5,725.69	-703.96	,	,	32.321080	-103.797767 -103.797767
15,700.00		359.66 359.66	10,037.00	5,825.69	-704.55 -705.14	481,054.53	706,776.02	32.321355	
15,800.00			10,037.00	5,925.69		481,154.52	706,775.44	32.321630	-103.797768
15,900.00 16,000.00		359.66 359.66	10,037.00 10,037.00	6,025.68 6,125.68	-705.73 -706.32	481,254.52 481,354.52	706,774.85 706,774.26	32.321905 32.322179	-103.797768 -103.797768
16,100.00		359.66	10,037.00	6,225.68	-706.91	481,454.52	706,773.67	32.322454	-103.797769
16,200.00		359.66	10,037.00	6,325.68	-707.49	481,554.52	706,773.08	32.322729	-103.797769
16,300.00		359.66	10,037.00	6,425.68	-708.08	481,654.52	706,772.50	32.323004	-103.797769
16,400.00		359.66	10,037.00	6,525.68	-708.67	481,754.51	706,771.91	32.323279	-103.797769
16,500.00		359.66	10,037.00	6,625.67	-709.26	481,854.51	706,771.32	32.323554	-103.797770
16,600.00		359.66	10,037.00	6,725.67	-709.85	481,954.51	706,770.73	32.323829	-103.797770
16,700.00		359.66	10,037.00	6,825.67	-710.43	482,054.51	706,770.14	32.324104	-103.797770
16,800.00		359.66	10,037.00	6,925.67	-711.02	482,154.51	706,769.56	32.324379	-103.797771
16,900.00		359.66	10,037.00	7,025.67	-711.61	482,254.50	706,768.97	32.324653	-103.797771
17,000.00		359.66	10,037.00	7,125.67	-712.20	482,354.50	706,768.38	32.324928	-103.797771
17,100.00		359.66	10,037.00	7,225.66	-712.79	482,454.50	706,767.79	32.325203	-103.797771
17,200.00		359.66	10,037.00	7,325.66	-713.37	482,554.50	706,767.20	32.325478	-103.797772
17,300.00		359.66	10,037.00	7,425.66	-713.96	482,654.50	706,766.62	32.325753	-103.797772
17,400.00		359.66	10,037.00	7,525.66	-714.55	482,754.49	706,766.03	32.326028	-103.797772
17,492.00		359.66	10,037.00	7,617.66	-715.09	482,846.49	706,765.49	32.326281	-103.797772
	ection @ 1749			,		- ,	,		
17,500.00	-	359.66	10,037.00	7,625.66	-715.14	482,854.49	706,765.44	32.326303	-103.797773
17,600.00		359.66	10,037.00	7,725.66	-715.73	482,954.49	706,764.85	32.326578	-103.797773
17,700.00		359.66	10,037.00	7,825.65	-716.31	483,054.49	706,764.26	32.326852	-103.797773
17,800.00	90.00	359.66	10,037.00	7,925.65	-716.90	483,154.49	706,763.68	32.327127	-103.797773
17,900.00	90.00	359.66	10,037.00	8,025.65	-717.49	483,254.48	706,763.09	32.327402	-103.797774
18,000.00	90.00	359.66	10,037.00	8,125.65	-718.08	483,354.48	706,762.50	32.327677	-103.797774
18,100.00	90.00	359.66	10,037.00	8,225.65	-718.67	483,454.48	706,761.91	32.327952	-103.797774
18,200.00	90.00	359.66	10,037.00	8,325.64	-719.25	483,554.48	706,761.32	32.328227	-103.797775
18,300.00	90.00	359.66	10,037.00	8,425.64	-719.84	483,654.48	706,760.73	32.328502	-103.797775
18,400.00	90.00	359.66	10,037.00	8,525.64	-720.43	483,754.47	706,760.15	32.328777	-103.797775
18,500.00	90.00	359.66	10,037.00	8,625.64	-721.02	483,854.47	706,759.56	32.329051	-103.797775
18,600.00	90.00	359.66	10,037.00	8,725.64	-721.61	483,954.47	706,758.97	32.329326	-103.797776
18,700.00	90.00	359.66	10,037.00	8,825.64	-722.19	484,054.47	706,758.38	32.329601	-103.797776
18,800.00	90.00	359.66	10,037.00	8,925.63	-722.78	484,154.47	706,757.79	32.329876	-103.797776
18,900.00	90.00	359.66	10,037.00	9,025.63	-723.37	484,254.47	706,757.21	32.330151	-103.797777
19,000.00	90.00	359.66	10,037.00	9,125.63	-723.96	484,354.46	706,756.62	32.330426	-103.797777
19,100.00	90.00	359.66	10,037.00	9,225.63	-724.55	484,454.46	706,756.03	32.330701	-103.797777
19,200.00	90.00	359.66	10,037.00	9,325.63	-725.13	484,554.46	706,755.44	32.330976	-103.797777
19,300.00	90.00	359.66	10,037.00	9,425.63	-725.72	484,654.46	706,754.85	32.331250	-103.797778
19,400.00	90.00	359.66	10,037.00	9,525.62	-726.31	484,754.46	706,754.27	32.331525	-103.797778
19,500.00		359.66	10,037.00	9,625.62	-726.90	484,854.45	706,753.68	32.331800	-103.797778
19,600.00		359.66	10,037.00	9,725.62	-727.49	484,954.45	706,753.09	32.332075	-103.797779
19,700.00	90.00	359.66	10,037.00	9,825.62	-728.08	485,054.45	706,752.50	32.332350	-103.797779
19,800.00		359.66	10,037.00	9,925.62	-728.66	485,154.45	706,751.91	32.332625	-103.797779
19,900.00		359.66	10,037.00	10,025.62	-729.25	485,254.45	706,751.33	32.332900	-103.797779
20,000.00		359.66	10,037.00	10,125.61	-729.84	485,354.44	706,750.74	32.333175	-103.797780
20,100.00		359.66	10,037.00	10,225.61	-730.43	485,454.44	706,750.15	32.333449	-103.797780
20,200.00		359.66	10,037.00	10,325.61	-731.02	485,554.44	706,749.56	32.333724	-103.797780
20,300.00		359.66	10,037.00	10,425.61	-731.60	485,654.44	706,748.97	32.333999	-103.797780
20,400.00		359.66	10,037.00	10,525.61	-732.19	485,754.44	706,748.39	32.334274	-103.797781
20,500.00		359.66	10,037.00	10,625.61	-732.78	485,854.43	706,747.80	32.334549	-103.797781
20,600.00	90.00	359.66	10,037.00	10,725.60	-733.37	485,954.43	706,747.21	32.334824	-103.797781

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 233H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3361.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3361.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 233H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,700.00	90.00	359.66	10,037.00	10,825.60	-733.96	486,054.43	706,746.62	32.335099	-103.797782
20,800.00	90.00	359.66	10,037.00	10,925.60	-734.54	486,154.43	706,746.03	32.335374	-103.797782
20,900.00	90.00	359.66	10,037.00	11,025.60	-735.13	486,254.43	706,745.45	32.335648	-103.797782
21,000.00	90.00	359.66	10,037.00	11,125.60	-735.72	486,354.42	706,744.86	32.335923	-103.797782
21,100.00	90.00	359.66	10,037.00	11,225.59	-736.31	486,454.42	706,744.27	32.336198	-103.797783
21,200.00	90.00	359.66	10,037.00	11,325.59	-736.90	486,554.42	706,743.68	32.336473	-103.797783
21,300.00	90.00	359.66	10,037.00	11,425.59	-737.48	486,654.42	706,743.09	32.336748	-103.797783
21,400.00	90.00	359.66	10,037.00	11,525.59	-738.07	486,754.42	706,742.51	32.337023	-103.797784
21,500.00	90.00	359.66	10,037.00	11,625.59	-738.66	486,854.42	706,741.92	32.337298	-103.797784
21,600.00	90.00	359.66	10,037.00	11,725.59	-739.25	486,954.41	706,741.33	32.337573	-103.797784
21,700.00	90.00	359.66	10,037.00	11,825.58	-739.84	487,054.41	706,740.74	32.337847	-103.797784
21,800.00	90.00	359.66	10,037.00	11,925.58	-740.42	487,154.41	706,740.15	32.338122	-103.797785
21,900.00	90.00	359.66	10,037.00	12,025.58	-741.01	487,254.41	706,739.56	32.338397	-103.797785
22,000.00	90.00	359.66	10,037.00	12,125.58	-741.60	487,354.41	706,738.98	32.338672	-103.797785
22,100.00	90.00	359.66	10,037.00	12,225.58	-742.19	487,454.40	706,738.39	32.338947	-103.797786
22,200.00	90.00	359.66	10,037.00	12,325.58	-742.78	487,554.40	706,737.80	32.339222	-103.797786
22,300.00	90.00	359.66	10,037.00	12,425.57	-743.36	487,654.40	706,737.21	32.339497	-103.797786
22,400.00	90.00	359.66	10,037.00	12,525.57	-743.95	487,754.40	706,736.62	32.339772	-103.797786
22,500.00	90.00	359.66	10,037.00	12,625.57	-744.54	487,854.40	706,736.04	32.340046	-103.797787
22,600.00	90.00	359.66	10,037.00	12,725.57	-745.13	487,954.39	706,735.45	32.340321	-103.797787
22,656.00	90.00	359.66	10,037.00	12,781.57	-745.46	488,010.39	706,735.12	32.340475	-103.797787
LTP @ 22	2656' MD, 100	' FNL, 1980' F	EL						
22,700.00	90.00	359.66	10,037.00	12,825.57	-745.72	488,054.39	706,734.86	32.340596	-103.797787
22,736.48	90.00	359.66	10,037.00	12,862.05	-745.93	488,090.87	706,734.65	32.340697	-103.797787
PBHL: 2	0' FNL, 1980' I	FEL							
22,736.49	90.00	359.66	10,037.00	12,862.06	-745.93	488,090.88	706,734.65	32.340697	-103.797787

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 - Fiji 17-5 Fed Cor - plan misses target - Point		0.00 37.00ft at 227	0.00 736.49ft MD	12,862.06 (10037.00 TV	-745.93 /D, 12862.06 N	488,090.88 N, -745.93 E)	706,734.65	32.340697	-103.797787

n Annotations				
Measured	Vertical	Local Coor	dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
9,497.17	9,464.04	-50.00	-670.00	KOP & FTP @ 9497' MD, 2380' FNL, 1980' FEL
12,204.00	10,037.00	2,329.75	-683.99	Cross section @ 12204' MD, 0' FSL, 1980' FEL
17,492.00	10,037.00	7,617.66	-715.09	Cross section @ 17492' MD, 0' FSL, 1980' FEL
22,656.00	10,037.00	12,781.57	-745.46	LTP @ 22656' MD, 100' FNL, 1980' FEL
22,736.48	10,037.00	12,862.05	-745.93	PBHL; 20' FNL, 1980' FEL



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

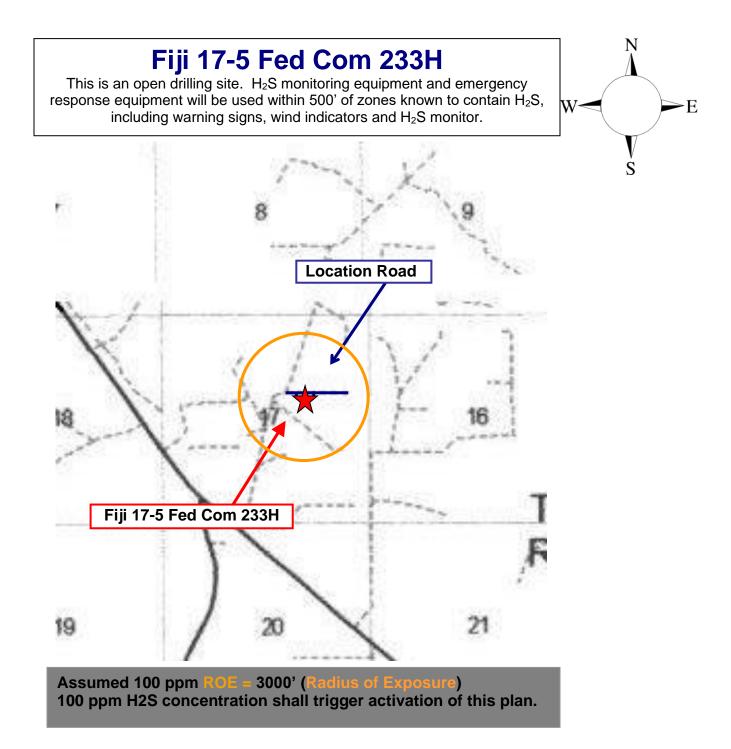
# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

Fiji 17-5 Fed Com 233H

Sec-17 T-23S R-31E 2330' FNL & 1310' FEL LAT. = 32.3053318' N (NAD83) LONG = 103.7955810' W

**Eddy County NM** 



#### Escape

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

# 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  $H_2S$ , 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

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal		
Name	Formula	Gravity	Limit	Hazardous Limit	Concentration		
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm		
Sulfur	50	2.21	2 ppm	N/A	1000 ppm		
Dioxide	SO2	Air = 1					

#### Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

## **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  $H_2S$  zone (within 3 days or 500 feet) and weekly  $H_2S$  and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific  $H_2S$  Drilling Operations Plan and the Public Protection Plan.

## II. HYDROGEN SULFIDE TRAINING

Note: All  $H_2S$  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  $H_2S$ .

### 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.

#### Devon Energy Corp. Company Call List

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional – Laura Wright

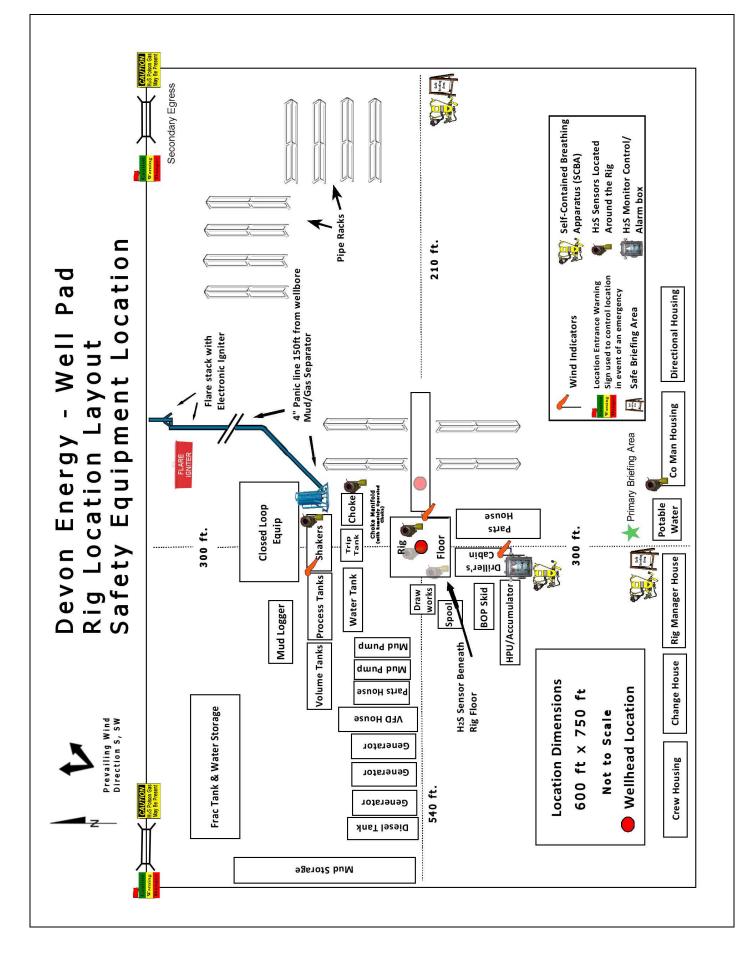
405-439-8129

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

Prepared in conjunction with

Dave Small





# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'	S NAME:	Devon Energy Production Company LP						
LE	ASE NO.:	NMNM045235						
	CATION:	Section 17, T.23 S., R.31 E., NMPM						
(	COUNTY:	Eddy County, New Mexico						
WELL NAM	E & NO.:	Fiji 17-5 Fed Com 124H						
SURFACE HOLE FO	OTAGE:	2180'/N & 1670'/E						
BOTTOM HOLE F	OOTAGE	20'/N & 2300'/E						
WELL NAM	E & NO.:	Fiji 17-5 Fed Com 125H						
SURFACE HOLE FO	<b>OOTAGE:</b>	2180'/N & 1640'/E						
BOTTOM HOLE F	OOTAGE	20'/N & 1350'/E						
WELL NAM	E & NO.:	Fiji 17-5 Fed Com 126H						
SURFACE HOLE FO	OOTAGE:	2180'/N & 1610'/E						
BOTTOM HOLE F	OOTAGE	20'/N & 400'/E						
WELL NAM	E & NO.:	Fiji 17-5 Fed Com 233H						
SURFACE HOLE FO	<b>OOTAGE:</b>	2330'/N & 1310'/E						
BOTTOM HOLE F	OOTAGE	20'/N & 1980'/E						
		-						
WELL NAM	E & NO.:	Fiji 17-5	17-5 Fed Com 234H					
SURFACE HOLE FO	OOTAGE:	2180'/N a	& 1280'/E					
BOTTOM HOLE FOOTAGE 20'/N & 660'/E								
СОА								
H2S	C Yes		C No					
Potash	<b>None</b>		Secretary	<b>C</b> R-111-P				
Cave/Karst Potential	C Low		C Medium	<b>C</b> High				
Cave/Karst Potential	Critical		iviourum	<b>La</b> ringin				
Variance	C None		E Flex Hose	C Other				
Wellhead	Conventional		C Multibowl	<b>C</b> Both				
Other	4 String Area		Capitan Reef	WIPP				
Other			Cement Squeeze	□ Pilot Hole				
			COM	Unit				
Special Requirements 🗆 Water Disposal 🛛 COM 🗆 Unit								

#### A. HYDROGEN SULFIDE

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

#### **B. CASING**

- 1. The **13-3/8** inch surface casing shall be set at approximately **525 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 <u>24 hours in the Potash Area</u> 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.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing shall be set at approximately **4055 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.
  - In <u>Secretary Potash Areas</u> 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 9-5/8" annulus. <u>Operator must run</u> a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement should tie-back at least 500 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.
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

# **GENERAL REQUIREMENTS**

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

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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

Page 5 of 8

- 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

Page 6 of 8

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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

#### D. WASTE MATERIAL AND FLUIDS

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

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

Page 8 of 8