Form 3160-3 (June 2015)

# **UNITED STATES**

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

5. Lease Serial No.

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANA	NMNM045235			
APPLICATION FOR PERMIT TO DR	6. If Indian, Allotee or	Tribe Name		
1a. Type of work: PRILL REE	ENTER	7. If Unit or CA Agree	ement, Name and No.	
1b. Type of Well: Oil Well Gas Well Other	er	8. Lease Name and W	ell No.	
1c. Type of Completion: Hydraulic Fracturing Sing	gle Zone Multiple Zone	FIJI 17-5 FED COM		
		126H		
2. Name of Operator		9. API Well No.		
DEVON ENERGY PRODUCTION COMPANY LP		7.7117 Well 110.		
3a. Address 3	b. Phone No. (include area code)	10. Field and Pool, or	Exploratory	
333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 7310 (	405) 235-3611	LOS MEDANOS; BO		
4. Location of Well (Report location clearly and in accordance with	th any State requirements.*)	11. Sec., T. R. M. or B	Blk. and Survey or Area	
At surface SWNE / 2180 FNL / 1610 FEL / LAT 32.30574	434 / LONG -103.7965524	SEC 17/T23S/R31E/	/NMP	
At proposed prod. zone LOT 1 / 20 FNL / 400 FEL / LAT 32				
14. Distance in miles and direction from nearest town or post office		12. County or Parish EDDY	13. State	
15. Distance from proposed*	16. No of acres in lease 17. Spacii	ng Unit dedicated to this	s well	
location to nearest 1610 feet	400.0			
18 Distance from proposed location*	19. Proposed Depth 20. BLM/	BIA Bond No. in file		
to nearest well, drilling, completed, applied for, on this lease, ft.	9700 feet / 22244 feet FED: NM	IB000801		
	22. Approximate date work will start*	23. Estimated duration	1	
3337 feet 0	04/29/2021	45 days		
	24. Attachments			
The following, completed in accordance with the requirements of C (as applicable)	Onshore Oil and Gas Order No. 1, and the E	lydraulic Fracturing rul	e per 43 CFR 3162.3-3	
Well plat certified by a registered surveyor.	4. Bond to cover the operation	s unless covered by an e	existing bond on file (se	
2. A Drilling Plan.	Item 20 above).			
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office).		mation and/or plans as m	nay be requested by the	
25. Signature	Name (Printed/Typed)		Date	
(Electronic Submission)	JENNY HARMS / Ph: (800) 583-3	866	05/04/2020	
Title Regulatory Compliance Professional				
Approved by (Signature)	Name (Printed/Typed)		Date	
(Electronic Submission)	Cody Layton / Ph: (575) 234-5959	1	10/23/2020	
Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office			
Application approval does not warrant or certify that the applicant I applicant to conduct operations thereon.  Conditions of approval, if any, are attached.	holds legal or equitable title to those rights	in the subject lease whi	ch would entitle the	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 mal	ka it a crima for any parson knowingly and	willfully to make to an	y danartmant ar aganay	

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.

**Approval Date: 10/23/2020** 

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 APPROVED WITH CONDITIONS solids must be contained in a steel closed loop system.

Will require a directional survey with the C-104

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

SL

KP 11/5/2020 GEO Review

\*(Instructions on page 2)

#### District I

Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410

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

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

### State of New Mexico

# Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

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

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

AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

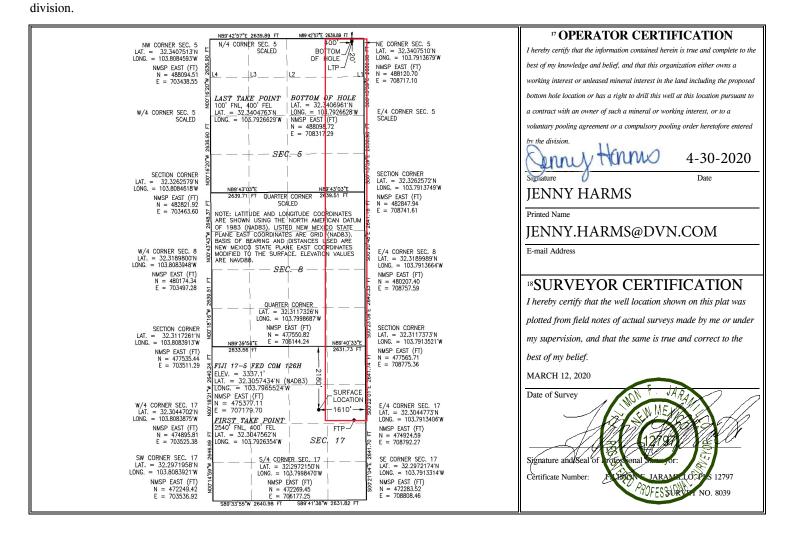
<sup>1</sup> API Number		<sup>2</sup> Pool Code		
		40295		
<sup>4</sup> Property Code		<sup>5</sup> Pr	<sup>6</sup> Well Number	
		FIJI 17	-5 FED COM	126H
<sup>7</sup> OGRID No.		8 OI	<sup>9</sup> Elevation	
6137		DEVON ENERGY PRO	3337.1	

### <sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
G	17	23 S	31 E		2180	NORTH	1610	EAST	EDDY	
	<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no.	Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line							County		
1	5	23 S	31 E		20	NORTH	400	EAST	EDDY	

<sup>12</sup> Dedicated Acres 399.82 <sup>13</sup> Joint or Infill <sup>14</sup> Consolidation Code <sup>15</sup> Order No.

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



Inten	t X	As Dril	led										
API#													
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.							perty N I 17-5		: O COM				Well Number 126H
Vial. C	Off Daint	(KOD)											
UL C	Off Point Section	Township	Range	Lot	Feet		From N	N/S	Feet	Fror	n E/W	County	
P	17	23S	31E		2130 F				400 FEL	-		EDDY	
32.3	ide 305864	100			Longitu -103		26360	0				NAD 83	
First 1	Гake Poir	nt (FTP)											
UL <b>H</b>	Section 17	Township 23S	Range 31E	Lot	Feet 2540		From NOR		Feet 400	From	n E/W	County	
Latitu		ı	OIL		Longitu 103.7				400		<u> </u>	NAD 83	
UL A Latitu		Township 23S	Range 31E	Lot 1	Feet 100 Longitu	NC	om N/S DRTH	Feet 400		n E/W ST	Count EDD NAD		
32.3	340476	3			103.7	03.7926629 83							
		e defining v	vell for th	e Horiz	zontal Sp	oacin	g Unit?	. [	YES				
	ll is yes p ng Unit.	lease prov	ide API if	availab	ole, Opei	rator	Name	and v	vell numbo	er for	Definii	ng well fo	r Horizontal
API#													
Ope	rator Na	me:	ı			Pro	perty N	lame	:				Well Number

# **Additional Operator Remarks**

### **Location of Well**

0. SHL: SWNE / 2180 FNL / 1610 FEL / TWSP: 23S / RANGE: 31E / SECTION: 17 / LAT: 32.3057434 / LONG: -103.7965524 ( TVD: 0 feet, MD: 0 feet ) PPP: SESE / 1 FSL / 400 FEL / TWSP: 23S / RANGE: 31E / SECTION: 8 / LAT: 32.311987 / LONG: -103.792641 ( TVD: 9700 feet, MD: 11800 feet ) PPP: SENE / 2540 FNL / 400 FEL / TWSP: 23S / RANGE: 31E / SECTION: 17 / LAT: 32.3047562 / LONG: -103.7926354 ( TVD: 9127 feet, MD: 9245 feet ) BHL: LOT 1 / 20 FNL / 400 FEL / TWSP: 23S / RANGE: 31E / SECTION: 5 / LAT: 32.3406961 / LONG: -103.7926628 ( TVD: 9700 feet, MD: 22244 feet )

### **BLM Point of Contact**

Name: Candy Vigil

Title: LIE

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



(Form 3160-3, page 3)

**Approval Date: 10/23/2020** 

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: April 30, 2020	
□ Original	Devon & OGRID No.: Devon Energy Production Co., L.P. 6137
☐ Amended - Reason for Amendment:	
This Gas Capture Plan outlines actions to be take (new drill, recomplete to new zone, re-frac) active	en by the Devon to reduce well/production facility flaring/venting for new completion

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



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

# **Drilling Plan Data Report**

11/03/2020

**APD ID:** 10400056733 **Submission Date:** 05/04/2020

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: FIJI 17-5 FED COM Well Number: 126H

Well Type: OIL WELL Well Work Type: Drill Highlighted data reflects the most recent changes

**Show Final Text** 

# **Section 1 - Geologic Formations**

_							
Formation	Famuatian Nama	Flavortian	True Vertical		Lithalasiaa	Min and Dagger	Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
727514	UNKNOWN	3339	0	0	OTHER : SURFACE	NONE	N
727515	RUSTLER	2929	410	410	SANDSTONE	NONE	N
727516	SALADO	2619	720	720	SALT	NONE	N
727517	BASE OF SALT	-491	3830	3830	ANHYDRITE	NATURAL GAS, OIL	N
727518	BELL CANYON	-741	4080	4080	SANDSTONE	NATURAL GAS, OIL	N
727519	CHERRY CANYON	-1671	5010	5010	SANDSTONE	NATURAL GAS, OIL	N
727520	BRUSHY CANYON	-2971	6310	6310	SANDSTONE	NATURAL GAS, OIL	N
727527	BONE SPRING LIME	-4645	7984	7984	LIMESTONE	NATURAL GAS, OIL	N
727521	BONE SPRING	-5744	9083	9083	SANDSTONE	NATURAL GAS, OIL	N
727523	BONE SPRING 2ND	-6278	9617	9617	SANDSTONE	NATURAL GAS, OIL	Y
727528	BONE SPRING LIME	-6816	10155	10155	LIMESTONE	NATURAL GAS, OIL	N
727524	BONE SPRING 3RD	-7461	10800	10800	SANDSTONE	NATURAL GAS, OIL	N
727525	WOLFCAMP	-7891	11230	11230	SHALE	NATURAL GAS, OIL	N
727526	STRAWN	-9511	12850	12850	LIMESTONE	NATURAL GAS, OIL	N

# **Section 2 - Blowout Prevention**

# Fiji 17-5 Fed Com 126H

# 1. Geologic Formations

TVD of target	9700	Pilot hole depth	N/A
MD at TD:	22244	Deepest expected fresh water	

# Basin

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

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

2. Casing Program

		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	ВТС	0	435	0	435
12 1/4	9 5/8	40	J-55	ВТС	0	4055	0	4055
8 3/4	5 1/2	17	P110	ВТС	0	22244	0	9700

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

3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	353	Surf	13.2	1.4	Lead: Class C Cement + additives
I 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	485	500' tieback	9.0	3.3	Lead: Class H /C + additives
Froduction	2508	KOP	13.2	1.4	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

4. Pressure Control Equipment (11)	212 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	, , , , , , , , , , , , , , , , , , ,																																							
BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:																																			
			Anı	Annular		50% of rated working pressure																																			
T4 1	13-58"	514	Blind	d Ram	X																																				
Int 1	13-38	5M	Pipe	Ram		53.4																																			
			Doub	le Ram	X	5M																																			
			Other*																																						
			Annular		X	50% of rated working pressure																																			
Production	12 5/0"	514	Blind Ram		X																																				
Production	13-5/8"	5M	JIVI	J1V1	J1V1	JIVI	JIVI	J1V1	3101	3101	J1V1	JIVI	J1V1	J1V1	J1V1	J1V1	3101	3101	J1V1	J1V1	J1V1	J1V1	3101	3101	3101	3101	3101	J1V1	J1V1	J1V1	JIVI	JIVI	J1V1	JIVI	JIVI	JIVI	JIVI	Pipe	Ram		5M
			Doub	le Ram	X	JIVI																																			
			Other*																																						
			Annul	ar (5M)																																					
			Blind Ram Pipe Ram Double Ram																																						
						1																																			
			Other*																																						

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

	or nogenic and resume i recourses								
Ι	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	X Completion Report and sbumitted to the BLM.							
		No logs are planned based on well control or offset log information.							
		Drill stem test? If yes, explain.							
	Coring? If yes, explain.								

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4540
Abnormal temperature	No

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

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

N H2S	2S is present
Y H2S	2S 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 126H

Wellbore #1

Plan: Permit Plan 1

# **Standard Planning Report - Geographic**

26 April, 2020

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

Minimum Curvature

Project Eddy County (NAD 83 NM Eastern)

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Map Zone: New Mexico Eastern Zone

Site Sec 17-T23S-R31E

Northing: 477,535.44 usft Site Position: Latitude: 32.311726 703,511.29 usft -103.808392 Easting: Мар Longitude: From: Position Uncertainty: 0.00 ft Slot Radius: 13-3/16 " 0.28 **Grid Convergence:** 

Well Fiji 17-5 Fed Com 126H

 Well Position
 +N/-S
 0.00 ft
 Northing:
 475,377.11 usft
 Latitude:
 32.305744

 +E/-W
 0.00 ft
 Easting:
 707,179.70 usft
 Longitude:
 -103.796553

 Position Uncertainty
 0.50 ft
 Wellhead Elevation:
 Ground Level:
 3,337.10 ft

Wellbore #1 Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 4/17/2020 6.76 60.07 47,672.11952817 IGRF2015

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 5.11

Plan Survey Tool Program Date 4/26/2020

Depth From Depth To
(ft) (ft) Survey (Wellbore) Tool Name Remarks

(, (, )

0.00 22,244.24 Permit Plan 1 (Wellbore #1) MWD+HDGM

OWSG MWD + HDGM

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	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	
3,181.60	11.82	87.63	3,173.24	5.01	121.30	1.00	1.00	0.00	87.63	
8,107.58	11.82	87.63	7,994.84	46.66	1,129.13	0.00	0.00	0.00	0.00	
8,895.31	0.00	0.00	8,777.00	50.00	1,210.00	1.50	-1.50	0.00	180.00	
9,245.35	0.00	0.00	9,127.04	50.00	1,210.00	0.00	0.00	0.00	0.00	
10,145.35	90.00	359.67	9,700.00	622.95	1,206.71	10.00	10.00	0.00	359.67	PBHL - Fiji 17-5 Fed (
22,244.24	90.00	359.67	9,700.00	12,721.64	1,137.30	0.00	0.00	0.00	0.00	PBHL - Fiji 17-5 Fed (

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
100.00	0.00	0.00	100.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
200.00	0.00	0.00	200.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
300.00	0.00	0.00	300.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
400.00	0.00	0.00	400.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
500.00	0.00	0.00	500.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
600.00	0.00	0.00	600.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
700.00	0.00	0.00	700.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
800.00	0.00	0.00	800.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
900.00	0.00	0.00	900.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,000.00	0.00	0.00	1,000.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,100.00	0.00	0.00	1,100.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,200.00	0.00	0.00	1,200.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,300.00	0.00	0.00	1,300.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,400.00	0.00	0.00	1,400.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,500.00	0.00	0.00	1,500.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,600.00	0.00	0.00	1,600.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,700.00	0.00	0.00	1,700.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,800.00	0.00	0.00	1,800.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
1,900.00	0.00	0.00	1,900.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553
2,000.00	0.00	0.00	2,000.00	0.00	0.00	475,377.11	707,179.70	32.305744	-103.796553 -103.796550
2,100.00	1.00	87.63	2,099.99	0.04 0.14	0.87 3.49	475,377.15 475,377.25	707,180.57 707,183.18	32.305744	-103.796541
2,200.00 2,300.00	2.00 3.00	87.63 87.63	2,199.96 2,299.86	0.14	7.85	475,377.43	707,163.16 707,187.54	32.305744 32.305744	-103.796527
2,400.00	4.00	87.63	2,299.60	0.52	13.95	475,377.43	707,193.64	32.305745	-103.796508
2,500.00	5.00	87.63	2,399.00	0.56	21.78	475,377.09	707,193.04	32.305746	-103.796482
2,600.00	6.00	87.63	2,598.90	1.30	31.36	475,378.41	707,211.06	32.305747	-103.796451
2,700.00	7.00	87.63	2,698.26	1.76	42.67	475,378.87	707,222.37	32.305748	-103.796415
2,800.00	8.00	87.63	2,797.40	2.30	55.71	475,379.41	707,235.41	32.305749	-103.796372
2,900.00	9.00	87.63	2,896.30	2.91	70.48	475,380.02	707,250.11	32.305751	-103.796325
3,000.00	10.00	87.63	2,994.93	3.59	86.97	475,380.70	707,266.67	32.305752	-103.796271
3,100.00	11.00	87.63	3,093.26	4.35	105.18	475,381.46	707,284.87	32.305754	-103.796212
3,181.60	11.82	87.63	3,173.24	5.01	121.30	475,382.12	707,301.00	32.305756	-103.796160
3,200.00	11.82	87.63	3,191.25	5.17	125.07	475,382.28	707,304.76	32.305756	-103.796148
3,300.00	11.82	87.63	3,289.13	6.01	145.53	475,383.12	707,325.22	32.305758	-103.796082
3,400.00	11.82	87.63	3,387.01	6.86	165.99	475,383.97	707,345.68	32.305760	-103.796015
3,500.00	11.82	87.63	3,484.90	7.70	186.45	475,384.82	707,366.14	32.305762	-103.795949
3,600.00	11.82	87.63	3,582.78	8.55	206.91	475,385.66	707,386.60	32.305764	-103.795883
3,700.00	11.82	87.63	3,680.66	9.40	227.37	475,386.51	707,407.06	32.305766	-103.795817
3,800.00	11.82	87.63	3,778.54	10.24	247.83	475,387.35	707,427.52	32.305768	-103.795750
3,900.00	11.82	87.63	3,876.42	11.09	268.29	475,388.20	707,447.98	32.305770	-103.795684
4,000.00	11.82	87.63	3,974.30	11.93	288.74	475,389.04	707,468.44	32.305772	-103.795618
4,100.00	11.82	87.63	4,072.18	12.78	309.20	475,389.89	707,488.90	32.305774	-103.795552
4,200.00	11.82	87.63	4,170.06	13.62	329.66	475,390.73	707,509.36	32.305776	-103.795485
4,300.00	11.82	87.63	4,267.94	14.47	350.12	475,391.58	707,529.82	32.305778	-103.795419
4,400.00	11.82	87.63	4,365.82	15.31	370.58	475,392.42	707,550.28	32.305781	-103.795353
4,500.00	11.82	87.63	4,463.71	16.16	391.04	475,393.27	707,570.74	32.305783	-103.795287
4,600.00	11.82	87.63	4,561.59	17.00	411.50	475,394.11	707,591.20	32.305785	-103.795221
4,700.00	11.82	87.63	4,659.47	17.85	431.96	475,394.96	707,611.66	32.305787	-103.795154
4,800.00	11.82	87.63	4,757.35	18.70	452.42	475,395.81	707,632.11	32.305789	-103.795088
4,900.00	11.82	87.63	4,855.23	19.54	472.88	475,396.65	707,652.57	32.305791	-103.795022
5,000.00	11.82	87.63	4,953.11	20.39	493.34	475,397.50	707,673.03	32.305793	-103.794956
5,100.00	11.82	87.63	5,050.99	21.23	513.80	475,398.34	707,693.49	32.305795	-103.794889
5,200.00	11.82	87.63	5,148.87	22.08	534.26	475,399.19	707,713.95	32.305797	-103.794823
5,300.00	11.82	87.63	5,246.75	22.92	554.72	475,400.03	707,734.41	32.305799	-103.794757

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

Measured   Depth   Inclination   Azimuth   Popth   (tr)	Planned Survey									
5,600,00 11 82 87 63 5,442 52 24 61 595,64 475,401,72 707,775 37 32,05805 +103,79458 5,700,00 11 82 87 63 5,540,40 25 46 616,10 475,402,57 777,775 77 32,058050 +103,79458 5,700,00 11 82 87 63 5,736 16 27,15 65,000,00 11 82 87 63 5,736 16 27,15 65,701 475,403,41 707,816,25 32,05809 +103,794428 5,800,00 11 82 87 63 5,834,04 27,19 677,47 475,405,11 707,857,17 32,058091 +103,794428 5,800,00 11 82 87 63 5,834,04 27,99 677,47 475,405,11 707,857,17 32,05811 +103,794328 6,100,00 11 82 87 63 6,1028 80 92.89 718,39 475,406,80 707,880,00 32,058613 +103,794228 6,200,00 11 82 87 63 6,1226 89 30,53 78,85 475,403,44 707,939,01 32,058611 +103,794238 6,100,00 11 82 87 63 6,225.86 31,38 759,31 475,408,40 707,939,01 32,056819 +103,794028 6,500,00 11 82 87 63 6,225.86 31,38 759,31 475,408,40 707,939,01 32,056819 +103,794028 6,500,00 11 82 87 63 6,421,33 30,7 800,23 475,410,18 707,979,02 32,056821 +103,794028 6,500,00 11 82 87 63 6,421,33 30,7 800,23 475,410,18 707,979,02 32,056821 +103,794028 6,500,00 11 82 87 63 6,417.09 3,476 841,15 475,411,87 709,00,00 38 32,056825 +103,738369 6,500,00 11 82 87 63 6,417.09 37,60 841,15 475,411,87 709,00,00 38 32,056825 +103,738369 6,500,00 11 82 87 63 6,417.09 37,60 841,15 475,411,87 709,00,00 38 32,056825 +103,738369 6,500,00 11 82 87 63 6,417.09 37,400 88 82,07 475,413,56 700,00 11 82 87 63 6,417.69 38,99 90,25 374,414,14 700,00 20,44 32,056832 +103,738369 6,500,00 11 82 87 63 6,417.69 38,99 90,25 374,414,14 700,00 20,24 32,056834 +103,738369 7,200,00 11 82 87 63 7,400,14 41,52 1,004,82 475,416,50 700,143,00 32,056834 +103,738369 7,200,00 11 82 87 63 7,400,14 41,52 1,004,82 475,416,40 700,143,00 32,056834 +103,738369 7,200,00 11 82 87 63 7,700,86 7,800,800 7,	Depth			Depth			Northing	Easting	Latitude	Longitude
5,700,00 11 82 87,63 5,540,40 22 24,66 618,10 475,402,57 707,705,79 32,208805 -103,794492 5,800,00 11 82 87,63 5,578,16 27,15 657,01 475,404,26 707,880,71 32,306800 -103,794492 5,800,00 11 82 87,63 5,378,16 27,975,67 47 475,404,26 707,880,47 32,306801 -103,794490 6,000,00 11 8,2 87,63 5,331,92 28,84 697,33 475,405,50 707,877,63 32,306815 -103,794490 6,000,00 11 8,2 87,63 6,027,80 8,00 23,600,00 11 8,2 87,63 6,027,80 8,00 23,600,00 11 8,2 87,63 6,025,65 31,38 79,83 1475,407,60 8,00 77,877,63 32,306815 -103,794297 6,200,00 11 8,2 87,63 6,225,65 31,38 79,93 1475,407,60 8,00 77,918,55 32,306815 -103,794297 6,200,00 11 8,2 87,63 6,225,65 31,38 79,93 1475,407,60 8,00 77,918,55 32,306815 -103,794297 6,200,00 11 8,2 87,63 6,223,45 33,30 78,88 5 475,407,64 707,918,55 32,306815 -103,794095 6,400,00 11 8,2 87,63 6,223,45 33,30 70,803,40 79,99 10 13,308619 -103,794095 6,600,00 11 8,2 87,63 6,213,33 30,1 80,02 34,76 4,410,18 707,99 12 32,306823 -103,794906 6,000,00 11 8,2 87,63 6,219,21 33,91 820,80 475,411,87 70,90 34 32,306823 -103,793960 6,000,00 11 8,2 87,63 6,011,73 37,29 90,23 475,411,87 70,00 41,30 32,306829 -103,793890 6,000,00 11 8,2 87,63 6,011,73 37,29 90,23 475,414,41 700,00 2,2 32,306839 -103,793960 6,000,00 11 8,2 87,63 6,011,73 37,29 90,23 475,414,41 700,00 2,2 32,306839 -103,793969 7,000,00 11 8,2 87,63 7,00 4,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793697 7,000,00 11 8,2 87,63 7,00 4,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793697 7,000,00 11 8,2 87,63 7,00 4,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793696 7,00 11 8,2 87,63 7,63 7,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793696 7,00 11 8,2 87,63 7,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793696 7,00 11 8,2 87,63 7,63 7,00 8,94 3,94 4,75,412,71 700,041,30 32,306839 -103,793696 7,00 30,00 11 8,2 87,63 7,63 7,60 8,94 3,94 4,75 4,75 4,75 4,75 4,75 4,75 4,75 4,7										
5,800.00 11,82 6763 5,588.28 28 28 30 636.55 475.403.41 707.816.25 32.3068007 -103.794492 5,900.00 11,82 6763 5,834.04 27.99 677.47 475.404.26 707.838.71 32.308811 -103.794938 6,100.00 11,82 676.31 5,834.04 27.99 677.47 475.405.11 707.857.17 32.308811 -103.794938 6,100.00 11,82 676.31 6,029.80 29.89 718.39 475.408.80 707.880.00 32.305815 -103.794923 6,100.00 11,82 676.31 6,225.68 30.53 73.865 475.408.80 707.880.00 32.305815 -103.794227 6,200.00 11,82 676.31 6,225.68 30.53 73.865 475.408.80 707.880.00 32.305815 -103.794925 6,500.00 11,82 676.31 6,225.68 30.53 73.865 475.408.80 707.893.00 32.305815 -103.794056 6,400.00 11,82 676.31 6,225.66 30.53 30.79 800.23 475.401.81 707.895.46 20.305819 -103.794056 6,500.00 11,82 676.31 6,325.12 33.91 820.00 475.401.81 707.879.92 32.305823 -103.794056 6,500.00 11,82 676.31 6,421.33 33.07 800.23 475.4101.81 707.879.92 32.305823 -103.793962 6,500.00 11,82 676.31 6,617.00 47.40										
5,900.00 11,82 97,83 5,536.16 27,16 697,01 475,040.28 707,836.71 22,305809 -003,794.28 5,000.00 11,82 97,63 5,593.102 28,84 697,33 475,405.95 707,877,63 32,305813 -103,794.29 6,000.00 11,82 97,63 6,593.00 29,89 718,39 475,405.95 707,877,63 32,305813 -103,794.29 6,000.00 11,82 97,63 6,127,68 30,53 738,85 475,407,64 707,918,55 22,305817 -103,794.29 6,000.00 11,82 97,63 6,225.55 313,8 75,835 475,407,64 707,918,55 22,305817 -103,794.19 6,000.00 11,82 97,63 6,323,45 32,22 779,77 475,408,39 707,939.01 82,305819 -103,794.02 6,650.00 11,82 97,63 6,421,33 33,07 80.23 475,407,64 707,918,55 22,305819 -103,794.02 6,650.00 11,82 97,63 6,421,33 33,07 80.23 475,407,64 707,918,55 22,305821 -103,794.02 6,650.00 11,82 97,83 6,651.00 347,64 801,94 475,411.02 708,000.38 22,305823 -103,793896 6,700.00 11,82 97,83 6,651.00 347,64 841,15 475,411.02 708,000.38 22,305825 -103,793896 6,700.00 11,82 97,83 6,671.00 34,76 841,15 475,411.87 708,041.30 22,305830 -103,793896 7,000.00 11,82 97,83 6,671.00 34,76 841,15 475,411.87 708,041.30 22,305830 -103,793896 7,000.00 11,82 97,83 6,671.497 33,60 861.61 475,411.27 708,041.30 22,305830 -103,793897 7,000.00 11,82 97,83 6,691.07 33,80 6,801.61 38,14 92,29 94,75,414.41 708,082.22 23,305834 -103,793897 7,000.00 11,82 97,83 7,000.61 38,14 92,29 94,75,415.65 9										
5.900.00										
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8,500.00       5.93       87.63       8,382.40       49.16       1,189.58       475,426.27       708,369.27       32.305862       -103.792702         8,600.00       4.43       87.63       8,481.99       49.53       1,198.60       475,426.64       708,378.29       32.305863       -103.792673         8,700.00       2.93       87.63       8,581.78       49.79       1,205.01       475,426.90       708,384.71       32.305864       -103.792639         8,800.00       1.43       87.63       8,681.70       49.95       1,208.81       475,426.90       708,388.51       32.305864       -103.792639         8,895.31       0.00       0.00       8,777.00       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,000.00       0.00       0.00       8,777.00       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,000.00       0.00       0.00       8,881.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,200.00       0.00       0.00       9,081.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.7926										
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8,900.00       0.00       0.00       8,781.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,000.00       0.00       0.00       8,881.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,100.00       0.00       0.00       8,981.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,200.00       0.00       0.00       9,081.69       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         9,245.35       0.00       0.00       9,127.04       50.00       1,210.00       475,427.11       708,389.69       32.305864       -103.792636         KOP & FTP @ 9245' MD, 2130' FNL, 400' FEL         9,300.00       5.47       359.67       9,181.61       52.60       1,209.99       475,429.71       708,389.68       32.305864       -103.792636         9,400.00       15.47       359.67       9,279.82       70.74       1,209.88       475,429.71       708,389.67       32.305921       -103.792636         9,500.00       25.47       359.67       9,373.39       105.66       1,209.68								,		
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9,245.35 0.00 0.00 9,127.04 50.00 1,210.00 475,427.11 708,389.69 32.305864 -103.792636  KOP & FTP @ 9245' MD, 2130' FNL, 400' FEL  9,300.00 5.47 359.67 9,181.61 52.60 1,209.99 475,429.71 708,389.68 32.305871 -103.792636  9,400.00 15.47 359.67 9,279.82 70.74 1,209.88 475,447.86 708,389.57 32.305921 -103.792636  9,500.00 25.47 359.67 9,373.39 105.66 1,209.68 475,482.77 708,389.37 32.306017 -103.792636  9,600.00 35.47 359.67 9,459.47 156.30 1,209.39 475,533.41 708,389.08 32.306156 -103.792636  9,700.00 45.46 359.67 9,535.46 221.11 1,209.02 475,598.22 708,388.71 32.306335 -103.792636  9,800.00 55.46 359.67 9,599.03 298.14 1,208.58 475,675.25 708,388.27 32.306546 -103.792636  9,900.00 65.46 359.67 9,648.27 385.03 1,208.08 475,762.14 708,387.77 32.306785 -103.792636  10,000.00 75.46 359.67 9,681.66 479.15 1,207.54 475,856.26 708,387.23 32.307044 -103.792637  10,100.00 85.46 359.67 9,698.21 577.65 1,206.97 475,954.76 708,386.41 32.307439 -103.792637		0.00	0.00		50.00				32.305864	
KOP & FTP @ 9245' MD, 2130' FNL, 400' FEL           9,300.00         5.47         359.67         9,181.61         52.60         1,209.99         475,429.71         708,389.68         32.305871         -103.792636           9,400.00         15.47         359.67         9,279.82         70.74         1,209.88         475,447.86         708,389.57         32.305921         -103.792636           9,500.00         25.47         359.67         9,373.39         105.66         1,209.68         475,482.77         708,389.37         32.306017         -103.792636           9,600.00         35.47         359.67         9,459.47         156.30         1,209.39         475,533.41         708,389.08         32.306156         -103.792636           9,700.00         45.46         359.67         9,535.46         221.11         1,209.02         475,598.22         708,388.71         32.306335         -103.792636           9,800.00         55.46         359.67         9,599.03         298.14         1,208.58         475,675.25         708,388.27         32.306546         -103.792636           9,900.00         65.46         359.67         9,648.27         385.03         1,208.08         475,762.14         708,387.77         32.306785         -103.792636 <td>9,245.35</td> <td></td> <td>0.00</td> <td>9,127.04</td> <td>50.00</td> <td>1,210.00</td> <td>475,427.11</td> <td>708,389.69</td> <td>32.305864</td> <td>-103.792636</td>	9,245.35		0.00	9,127.04	50.00	1,210.00	475,427.11	708,389.69	32.305864	-103.792636
9,300.00         5.47         359.67         9,181.61         52.60         1,209.99         475,429.71         708,389.68         32.305871         -103.792636           9,400.00         15.47         359.67         9,279.82         70.74         1,209.88         475,447.86         708,389.57         32.305921         -103.792636           9,500.00         25.47         359.67         9,373.39         105.66         1,209.68         475,482.77         708,389.37         32.306017         -103.792636           9,600.00         35.47         359.67         9,459.47         156.30         1,209.39         475,533.41         708,389.08         32.306156         -103.792636           9,700.00         45.46         359.67         9,535.46         221.11         1,209.02         475,598.22         708,388.71         32.306335         -103.792636           9,800.00         55.46         359.67         9,599.03         298.14         1,208.58         475,675.25         708,388.27         32.306546         -103.792636           9,900.00         65.46         359.67         9,648.27         385.03         1,208.08         475,762.14         708,387.77         32.306785         -103.792636           10,000.00         75.46         359.67	KOP & F		D. 2130' FNL							
9,400.00         15.47         359.67         9,279.82         70.74         1,209.88         475,447.86         708,389.57         32.305921         -103.792636           9,500.00         25.47         359.67         9,373.39         105.66         1,209.68         475,482.77         708,389.37         32.306017         -103.792636           9,600.00         35.47         359.67         9,459.47         156.30         1,209.39         475,533.41         708,389.08         32.306156         -103.792636           9,700.00         45.46         359.67         9,535.46         221.11         1,209.02         475,598.22         708,388.71         32.306335         -103.792636           9,800.00         55.46         359.67         9,599.03         298.14         1,208.58         475,675.25         708,388.27         32.306546         -103.792636           9,900.00         65.46         359.67         9,648.27         385.03         1,208.08         475,762.14         708,387.77         32.306785         -103.792636           10,000.00         75.46         359.67         9,681.66         479.15         1,207.54         475,856.26         708,387.23         32.307044         -103.792637           10,100.00         85.46         359.67					52.60	1.209.99	475.429.71	708.389.68	32.305871	-103.792636
9,500.00       25.47       359.67       9,373.39       105.66       1,209.68       475,482.77       708,389.37       32.306017       -103.792636         9,600.00       35.47       359.67       9,459.47       156.30       1,209.39       475,533.41       708,389.08       32.306156       -103.792636         9,700.00       45.46       359.67       9,535.46       221.11       1,209.02       475,598.22       708,388.71       32.306335       -103.792636         9,800.00       55.46       359.67       9,599.03       298.14       1,208.58       475,675.25       708,388.27       32.306546       -103.792636         9,900.00       65.46       359.67       9,648.27       385.03       1,208.08       475,762.14       708,387.77       32.306785       -103.792636         10,000.00       75.46       359.67       9,681.66       479.15       1,207.54       475,856.26       708,387.23       32.307044       -103.792637         10,100.00       85.46       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.67       32.307315       -103.792637         10,145.35       90.00       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.41       32.										
9,600.00       35.47       359.67       9,459.47       156.30       1,209.39       475,533.41       708,389.08       32.306156       -103.792636         9,700.00       45.46       359.67       9,535.46       221.11       1,209.02       475,598.22       708,388.71       32.306335       -103.792636         9,800.00       55.46       359.67       9,599.03       298.14       1,208.58       475,675.25       708,388.27       32.306546       -103.792636         9,900.00       65.46       359.67       9,648.27       385.03       1,208.08       475,762.14       708,387.77       32.306785       -103.792636         10,000.00       75.46       359.67       9,681.66       479.15       1,207.54       475,856.26       708,387.23       32.307044       -103.792637         10,100.00       85.46       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.67       32.307315       -103.792637         10,145.35       90.00       359.67       9,700.00       622.95       1,206.71       476,000.06       708,386.41       32.307439       -103.792637										
9,700.00       45.46       359.67       9,535.46       221.11       1,209.02       475,598.22       708,388.71       32.306335       -103.792636         9,800.00       55.46       359.67       9,599.03       298.14       1,208.58       475,675.25       708,388.27       32.306546       -103.792636         9,900.00       65.46       359.67       9,648.27       385.03       1,208.08       475,762.14       708,387.77       32.306785       -103.792636         10,000.00       75.46       359.67       9,681.66       479.15       1,207.54       475,856.26       708,387.23       32.307044       -103.792637         10,100.00       85.46       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.67       32.307315       -103.792637         10,145.35       90.00       359.67       9,700.00       622.95       1,206.71       476,000.06       708,386.41       32.307439       -103.792637										
9,800.00       55.46       359.67       9,599.03       298.14       1,208.58       475,675.25       708,388.27       32.306546       -103.792636         9,900.00       65.46       359.67       9,648.27       385.03       1,208.08       475,762.14       708,387.77       32.306785       -103.792636         10,000.00       75.46       359.67       9,681.66       479.15       1,207.54       475,856.26       708,387.23       32.307044       -103.792637         10,100.00       85.46       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.67       32.307315       -103.792637         10,145.35       90.00       359.67       9,700.00       622.95       1,206.71       476,000.06       708,386.41       32.307439       -103.792637										
9,900.00     65.46     359.67     9,648.27     385.03     1,208.08     475,762.14     708,387.77     32.306785     -103.792636       10,000.00     75.46     359.67     9,681.66     479.15     1,207.54     475,856.26     708,387.23     32.307044     -103.792637       10,100.00     85.46     359.67     9,698.21     577.65     1,206.97     475,954.76     708,386.67     32.307315     -103.792637       10,145.35     90.00     359.67     9,700.00     622.95     1,206.71     476,000.06     708,386.41     32.307439     -103.792637				,						
10,000.00       75.46       359.67       9,681.66       479.15       1,207.54       475,856.26       708,387.23       32.307044       -103.792637         10,100.00       85.46       359.67       9,698.21       577.65       1,206.97       475,954.76       708,386.67       32.307315       -103.792637         10,145.35       90.00       359.67       9,700.00       622.95       1,206.71       476,000.06       708,386.41       32.307439       -103.792637								,		
10,100.00     85.46     359.67     9,698.21     577.65     1,206.97     475,954.76     708,386.67     32.307315     -103.792637       10,145.35     90.00     359.67     9,700.00     622.95     1,206.71     476,000.06     708,386.41     32.307439     -103.792637										
10,145.35 90.00 359.67 9,700.00 622.95 1,206.71 476,000.06 708,386.41 32.307439 -103.792637								,		
103./92637 32.30/589 -103./92637 3./900.00 1,200.40 4/6,054./1 /08,386.09 32.30/589 -103./92637	10,200.00	90.00	359.67	9,700.00	677.60	1,206.40	476,054.71	708,386.09	32.307589	-103.792637

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

Planned Survey	•								
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,300.00	90.00	359.67	9,700.00	777.60	1,205.83	476,154.71	708,385.52	32.307864	-103.792637
10,400.00	90.00	359.67	9,700.00	877.59	1,205.25	476,254.70	708,384.95	32.308139	-103.792637
10,500.00	90.00	359.67	9,700.00	977.59	1,204.68	476,354.70	708,384.37	32.308414	-103.792638
10,600.00	90.00	359.67	9,700.00	1,077.59	1,204.10	476,454.70	708,383.80	32.308689	-103.792638
10,700.00	90.00	359.67	9,700.00	1,177.59	1,203.53	476,554.70	708,383.22	32.308964	-103.792638
10,800.00	90.00	359.67	9,700.00	1,277.59	1,202.96	476,654.70	708,382.65	32.309239	-103.792638
10,900.00	90.00	359.67	9,700.00	1,377.59	1,202.38	476,754.69	708,382.08	32.309514	-103.792639
11,000.00	90.00	359.67	9,700.00	1,477.58	1,201.81	476,854.69	708,381.50	32.309788	-103.792639
11,100.00	90.00	359.67	9,700.00	1,577.58	1,201.24	476,954.69	708,380.93	32.310063	-103.792639
11,200.00	90.00	359.67	9,700.00	1,677.58	1,200.66	477,054.69	708,380.36	32.310338	-103.792639
11,300.00	90.00	359.67	9,700.00	1,777.58	1,200.09	477,154.69	708,379.78	32.310613	-103.792639
11,400.00	90.00	359.67	9,700.00	1,877.58	1,199.52	477,254.68	708,379.21	32.310888	-103.792640
11,500.00	90.00	359.67	9,700.00	1,977.58	1,198.94	477,354.68	708,378.63	32.311163	-103.792640
11,600.00	90.00	359.67	9,700.00	2,077.57	1,198.37	477,454.68	708,378.06	32.311438	-103.792640
11,700.00	90.00	359.67	9,700.00	2,177.57	1,197.79	477,554.68	708,377.49	32.311713	-103.792640
11,702.00	90.00	359.67	9,700.00	2,179.57	1,197.78	477,556.68	708,377.48	32.311718	-103.792640
Cross se	ection @ 1170	2' MD, 0' FSL	., 400' FEL						
11,800.00	90.00	359.67	9,700.00	2,277.57	1,197.22	477,654.68	708,376.91	32.311987	-103.792641
11,900.00	90.00	359.67	9,700.00	2,377.57	1,196.65	477,754.68	708,376.34	32.312262	-103.792641
12,000.00	90.00	359.67	9,700.00	2,477.57	1,196.07	477,854.67	708,375.77	32.312537	-103.792641
12,100.00	90.00	359.67	9,700.00	2,577.57	1,195.50	477,954.67	708,375.19	32.312812	-103.792641
12,200.00	90.00	359.67	9,700.00	2,677.56	1,194.93	478,054.67	708,374.62	32.313087	-103.792642
12,300.00	90.00	359.67	9,700.00	2,777.56	1,194.35	478,154.67	708,374.05	32.313362	-103.792642
12,400.00	90.00	359.67	9,700.00	2,877.56	1,193.78	478,254.67	708,373.47	32.313637	-103.792642
12,500.00	90.00	359.67	9,700.00	2,977.56	1,193.20	478,354.66	708,372.90	32.313912	-103.792642
12,600.00	90.00	359.67	9,700.00	3,077.56	1,192.63	478,454.66	708,372.32	32.314186	-103.792642
12,700.00	90.00	359.67	9,700.00	3,177.56	1,192.06	478,554.66	708,371.75	32.314461	-103.792643
12,800.00	90.00	359.67	9,700.00	3,277.55	1,191.48	478,654.66	708,371.18	32.314736	-103.792643
12,900.00	90.00	359.67	9,700.00	3,377.55	1,190.91	478,754.66	708,370.60	32.315011	-103.792643
13,000.00	90.00	359.67	9,700.00	3,477.55	1,190.34	478,854.66	708,370.03	32.315286	-103.792643
13,100.00	90.00	359.67	9,700.00	3,577.55	1,189.76	478,954.65	708,369.46	32.315561	-103.792644
13,200.00	90.00	359.67	9,700.00	3,677.55	1,189.19	479,054.65	708,368.88	32.315836	-103.792644
13,300.00	90.00	359.67	9,700.00	3,777.55	1,188.61	479,154.65	708,368.31	32.316111	-103.792644
13,400.00	90.00	359.67	9,700.00	3,877.55	1,188.04	479,254.65	708,367.73	32.316385	-103.792644
13,500.00	90.00	359.67	9,700.00	3,977.54	1,187.47	479,354.65	708,367.16	32.316660	-103.792644
13,600.00	90.00	359.67	9,700.00	4,077.54	1,186.89	479,454.64	708,366.59	32.316935	-103.792645
13,700.00	90.00	359.67	9,700.00	4,177.54	1,186.32	479,554.64	708,366.01	32.317210	-103.792645
13,800.00	90.00	359.67	9,700.00	4,277.54	1,185.75	479,654.64	708,365.44	32.317485	-103.792645
13,900.00	90.00	359.67	9,700.00	4,377.54	1,185.17	479,754.64	708,364.87	32.317760	-103.792645
14,000.00	90.00	359.67	9,700.00	4,477.54	1,184.60	479,854.64	708,364.29	32.318035	-103.792646
14,100.00	90.00	359.67	9,700.00	4,577.53	1,184.03	479,954.64	708,363.72	32.318310	-103.792646
14,200.00	90.00	359.67	9,700.00	4,677.53	1,183.45	480,054.63	708,363.15	32.318585	-103.792646
14,300.00	90.00	359.67	9,700.00	4,777.53	1,182.88	480,154.63	708,362.57	32.318859	-103.792646
14,400.00	90.00	359.67	9,700.00	4,877.53	1,182.30	480,254.63	708,362.00	32.319134	-103.792646
14,500.00	90.00	359.67	9,700.00	4,977.53	1,181.73	480,354.63	708,361.42	32.319409	-103.792647
14,600.00	90.00	359.67	9,700.00	5,077.53	1,181.16	480,454.63	708,360.85	32.319684	-103.792647
14,700.00	90.00	359.67	9,700.00	5,177.52	1,180.58	480,554.62	708,360.28	32.319959	-103.792647
14,800.00	90.00	359.67	9,700.00	5,277.52	1,180.01	480,654.62	708,359.70	32.320234	-103.792647
14,900.00	90.00	359.67	9,700.00	5,377.52	1,179.44	480,754.62	708,359.13	32.320509	-103.792648
15,000.00	90.00	359.67	9,700.00	5,477.52	1,178.86	480,854.62	708,358.56	32.320784	-103.792648
15,100.00	90.00	359.67	9,700.00	5,577.52	1,178.29	480,954.62	708,357.98	32.321058	-103.792648
15,200.00	90.00	359.67	9,700.00	5,677.52	1,177.71	481,054.61	708,357.41	32.321333	-103.792648
15,300.00	90.00	359.67	9,700.00	5,777.51	1,177.14	481,154.61	708,356.83	32.321608	-103.792648
15,400.00	90.00	359.67	9,700.00	5,877.51	1,176.57	481,254.61	708,356.26	32.321883	-103.792649

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

Planned Survey									
Measured			Vertical			Мар	Мар		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
15,500.00	90.00	359.67	9,700.00	5,977.51	1,175.99	481,354.61	708,355.69	32.322158	-103.792649
15,600.00	90.00	359.67	9,700.00	6,077.51	1,175.42	481,454.61	708,355.11	32.322433	-103.792649
15,700.00	90.00	359.67	9,700.00	6,177.51	1,174.85	481,554.61	708,354.54	32.322708	-103.792649
15,800.00	90.00	359.67	9,700.00	6,277.51	1,174.27	481,654.60	708,353.97	32.322983	-103.792650
15,900.00	90.00	359.67	9,700.00	6,377.50	1,173.70	481,754.60	708,353.39	32.323257	-103.792650
16,000.00	90.00	359.67	9,700.00	6,477.50	1,173.13	481,854.60	708,352.82	32.323532	-103.792650
16,100.00	90.00	359.67	9,700.00	6,577.50	1,172.55	481,954.60	708,352.24	32.323807	-103.792650
16,200.00	90.00	359.67	9,700.00	6,677.50	1,171.98	482,054.60	708,351.67	32.324082	-103.792650
16,300.00	90.00	359.67	9,700.00	6,777.50	1,171.40	482,154.59	708,351.10	32.324357	-103.792651
16,400.00	90.00	359.67	9,700.00	6,877.50	1,170.83	482,254.59	708,350.52	32.324632	-103.792651
16,500.00	90.00	359.67	9,700.00	6,977.49	1,170.26	482,354.59	708,349.95	32.324907	-103.792651
16,600.00	90.00	359.67	9,700.00	7,077.49	1,169.68	482,454.59	708,349.38	32.325182	-103.792651
16,700.00	90.00	359.67	9,700.00	7,177.49	1,169.11	482,554.59	708,348.80	32.325456	-103.792652
16,800.00	90.00	359.67	9,700.00	7,277.49	1,168.54	482,654.59	708,348.23	32.325731	-103.792652
16,900.00	90.00	359.67	9,700.00	7,377.49	1,167.96	482,754.58	708,347.66	32.326006	-103.792652
16,991.00	90.00	359.67	9,700.00	7,468.49	1,167.44	482,845.58	708,347.13	32.326256	-103.792652
Cross se	ction @ 1699	1' MD, 0' FSL	., 400' FEL						
17,000.00	90.00	359.67	9,700.00	7,477.49	1,167.39	482,854.58	708,347.08	32.326281	-103.792652
17,100.00	90.00	359.67	9,700.00	7,577.48	1,166.81	482,954.58	708,346.51	32.326556	-103.792652
17,200.00	90.00	359.67	9,700.00	7,677.48	1,166.24	483,054.58	708,345.93	32.326831	-103.792653
17,300.00	90.00	359.67	9,700.00	7,777.48	1,165.67	483,154.58	708,345.36	32.327106	-103.792653
17,400.00	90.00	359.67	9,700.00	7,877.48	1,165.09	483,254.57	708,344.79	32.327381	-103.792653
17,500.00	90.00	359.67	9,700.00	7,977.48	1,164.52	483,354.57	708,344.21	32.327655	-103.792653
17,600.00	90.00	359.67	9,700.00	8,077.48	1,163.95	483,454.57	708,343.64	32.327930	-103.792654
17,700.00	90.00	359.67	9,700.00	8,177.47	1,163.37	483,554.57	708,343.07	32.328205	-103.792654
17,800.00	90.00	359.67	9,700.00	8,277.47	1,162.80	483,654.57	708,342.49	32.328480	-103.792654
17,900.00	90.00	359.67	9,700.00	8,377.47	1,162.22	483,754.56	708,341.92	32.328755	-103.792654
18,000.00	90.00	359.67	9,700.00	8,477.47	1,161.65	483,854.56	708,341.34	32.329030	-103.792654
18,100.00	90.00	359.67	9,700.00	8,577.47	1,161.08	483,954.56	708,340.77	32.329305	-103.792655
18,200.00	90.00	359.67	9,700.00	8,677.47	1,160.50	484,054.56	708,340.20	32.329580	-103.792655
18,300.00	90.00	359.67	9,700.00	8,777.46	1,159.93	484,154.56	708,339.62	32.329854	-103.792655
18,400.00	90.00	359.67	9,700.00	8,877.46	1,159.36	484,254.56	708,339.05	32.330129	-103.792655
18,500.00	90.00	359.67	9,700.00	8,977.46	1,158.78	484,354.55	708,338.48	32.330404	-103.792656
18,600.00	90.00	359.67	9,700.00	9,077.46	1,158.21	484,454.55	708,337.90	32.330679	-103.792656
18,700.00	90.00	359.67	9,700.00	9,177.46	1,157.64	484,554.55	708,337.33	32.330954	-103.792656
18,800.00	90.00	359.67	9,700.00	9,277.46	1,157.06	484,654.55	708,336.76	32.331229	-103.792656
18,900.00	90.00	359.67	9,700.00	9,377.45	1,156.49	484,754.55	708,336.18	32.331504	-103.792656
19,000.00	90.00	359.67	9,700.00	9,477.45	1,155.91	484,854.54	708,335.61	32.331779	-103.792657
19,100.00	90.00	359.67	9,700.00	9,577.45	1,155.34	484,954.54	708,335.03	32.332053	-103.792657
19,200.00	90.00	359.67	9,700.00	9,677.45	1,154.77	485,054.54	708,334.46	32.332328	-103.792657
19,300.00	90.00	359.67	9,700.00	9,777.45	1,154.19	485,154.54	708,333.89	32.332603	-103.792657
19,400.00	90.00	359.67	9,700.00	9,877.45	1,153.62	485,254.54	708,333.31	32.332878	-103.792658
19,500.00	90.00	359.67	9,700.00	9,977.44	1,153.05	485,354.54	708,332.74	32.333153	-103.792658
19,600.00	90.00	359.67	9,700.00	10,077.44	1,152.47	485,454.53 485,554.53	708,332.17	32.333428	-103.792658
19,700.00	90.00	359.67	9,700.00	10,177.44	1,151.90	,	708,331.59	32.333703	-103.792658
19,800.00 19,900.00	90.00 90.00	359.67 359.67	9,700.00 9,700.00	10,277.44 10,377.44	1,151.32 1,150.75	485,654.53 485,754.53	708,331.02 708,330.44	32.333978	-103.792659 -103.792659
1					1,150.75	485,754.53 485,854.53		32.334252	
20,000.00 20,100.00	90.00 90.00	359.67 359.67	9,700.00 9,700.00	10,477.44 10,577.43	1,150.18	485,854.53	708,329.87 708,329.30	32.334527 32.334802	-103.792659 -103.792659
			9,700.00			485,954.52 486,054.52	708,329.30		
20,200.00	90.00 90.00	359.67 359.67	9,700.00	10,677.43 10,777.43	1,149.03	,	708,328.72	32.335077	-103.792659 -103.792660
20,300.00		359.67			1,148.46 1 147 88	486,154.52 486,254.52	708,327.58	32.335352 32.335627	-103.792660
20,400.00 20,500.00	90.00 90.00	359.67	9,700.00 9,700.00	10,877.43 10,977.43	1,147.88 1,147.31	486,354.52	708,327.00	32.335627 32.335902	-103.792660
20,600.00	90.00	359.67	9,700.00	11,077.43	1,147.31	486,454.52	708,326.43	32.336177	-103.792660
20,000.00	90.00	338.07	9,100.00	11,077.43	1,140.74	400,404.02	100,320.43	32.330111	-103.782000

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

Project: Eddy County (NAD 83 NM Eastern)

 Site:
 Sec 17-T23S-R31E

 Well:
 Fiji 17-5 Fed Com 126H

Wellbore: Wellbore #1

Design: Permit Plan 1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

**Survey Calculation Method:** 

Well Fiji 17-5 Fed Com 126H

RKB @ 3362.10ft RKB @ 3362.10ft

Grid

lanned Survey									
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	359.67	9,700.00	11,177.43	1,146.16	486,554.51	708,325.86	32.336451	-103.792661
20,800.00	90.00	359.67	9,700.00	11,277.42	1,145.59	486,654.51	708,325.28	32.336726	-103.792661
20,900.00	90.00	359.67	9,700.00	11,377.42	1,145.01	486,754.51	708,324.71	32.337001	-103.792661
21,000.00	90.00	359.67	9,700.00	11,477.42	1,144.44	486,854.51	708,324.13	32.337276	-103.792661
21,100.00	90.00	359.67	9,700.00	11,577.42	1,143.87	486,954.51	708,323.56	32.337551	-103.792661
21,200.00	90.00	359.67	9,700.00	11,677.42	1,143.29	487,054.50	708,322.99	32.337826	-103.792662
21,300.00	90.00	359.67	9,700.00	11,777.42	1,142.72	487,154.50	708,322.41	32.338101	-103.792662
21,400.00	90.00	359.67	9,700.00	11,877.41	1,142.15	487,254.50	708,321.84	32.338376	-103.792662
21,500.00	90.00	359.67	9,700.00	11,977.41	1,141.57	487,354.50	708,321.27	32.338651	-103.792662
21,600.00	90.00	359.67	9,700.00	12,077.41	1,141.00	487,454.50	708,320.69	32.338925	-103.792663
21,700.00	90.00	359.67	9,700.00	12,177.41	1,140.42	487,554.49	708,320.12	32.339200	-103.792663
21,800.00	90.00	359.67	9,700.00	12,277.41	1,139.85	487,654.49	708,319.54	32.339475	-103.792663
21,900.00	90.00	359.67	9,700.00	12,377.41	1,139.28	487,754.49	708,318.97	32.339750	-103.792663
22,000.00	90.00	359.67	9,700.00	12,477.40	1,138.70	487,854.49	708,318.40	32.340025	-103.792663
22,100.00	90.00	359.67	9,700.00	12,577.40	1,138.13	487,954.49	708,317.82	32.340300	-103.792664
22,164.00	90.00	359.67	9,700.00	12,641.40	1,137.76	488,018.49	708,317.46	32.340476	-103.792664
LTP @ 22	2164' MD, 100	' FNL, 400' FI	EL						
22,200.00	90.00	359.67	9,700.00	12,677.40	1,137.56	488,054.49	708,317.25	32.340575	-103.792664
22,244.23	90.00	359.67	9,700.00	12,721.63	1,137.30	488,098.71	708,317.00	32.340696	-103.792664
PBHL; 20	)' FNL, 400' F	EL							
22,244.24	90.00	359.67	9,700.00	12,721.64	1,137.30	488,098.72	708,317.00	32.340696	-103.792664

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 Coı - plan misses target ( - Point	0.00 center by 9700	0.00 0.00ft at 2224	0.00 14.24ft MD	12,721.64 (9700.00 TVD,	1,137.30 12721.64 N,	488,098.72 1137.30 E)	708,317.00	32.340696	-103.792664

Plan Annotations				
Measured	Vertical Local Coord		dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
9,245.35	9,127.04	50.00	1,210.00	KOP & FTP @ 9245' MD, 2130' FNL, 400' FEL
11,702.00	9,700.00	2,179.57	1,197.78	Cross section @ 11702' MD, 0' FSL, 400' FEL
16,991.00	9,700.00	7,468.49	1,167.44	Cross section @ 16991' MD, 0' FSL, 400' FEL
22,164.00	9,700.00	12,641.40	1,137.76	LTP @ 22164' MD, 100' FNL, 400' FEL
22,244.23	9,700.00	12,721.63	1,137.30	PBHL; 20' FNL, 400' FEL



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

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

For

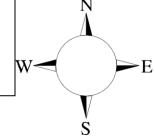
Fiji 17-5 Fed Com 126H

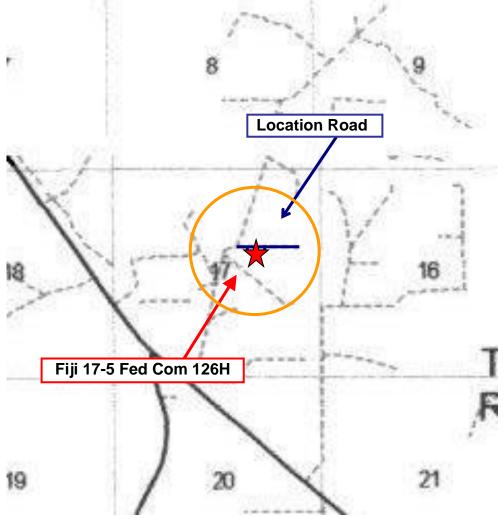
Sec-17 T-23S R-31E 2180' FNL & 1610' FEL LAT. = 32.3057434' N (NAD83) LONG = 103.7965524' W

**Eddy County NM** 

# Fiji 17-5 Fed Com 126H

This is an open drilling site. H<sub>2</sub>S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H<sub>2</sub>S, including warning signs, wind indicators and H<sub>2</sub>S monitor.





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

## **Escape**

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

**Assumed 100 ppm ROE = 3000'** 

# 100 ppm 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 Limit	Lethal
Name	Formula	Gravity	Limit	Hazardous Limit	Concentration
Hydrogen Sulfide	H₂S	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:

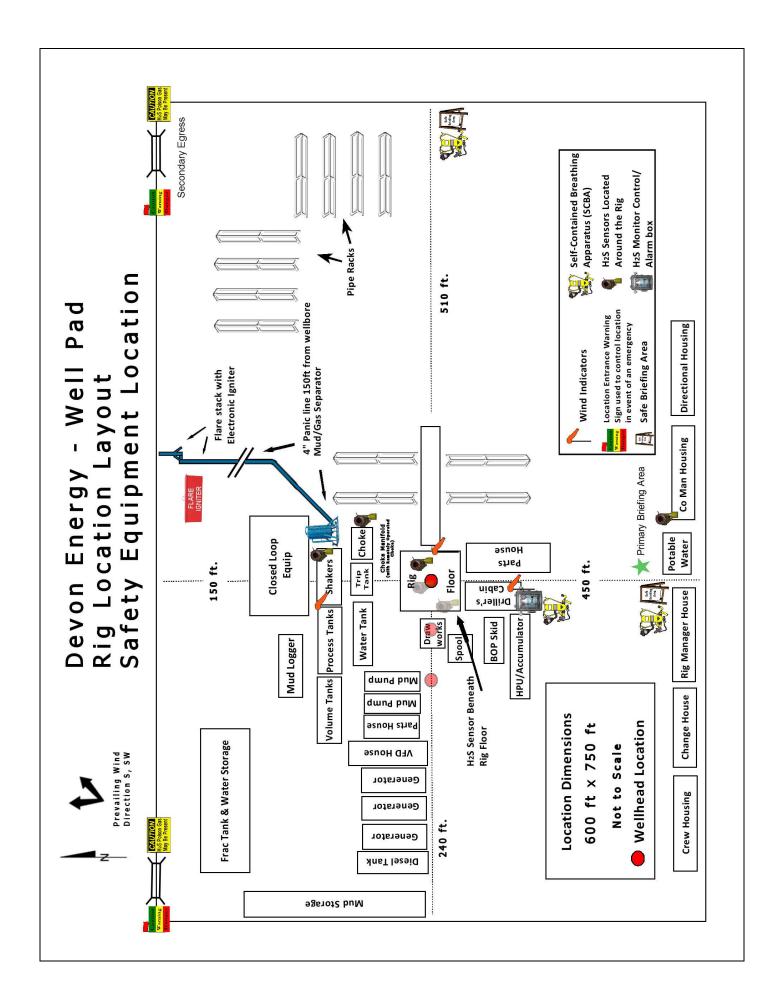
- Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

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

Prepared in conjunction with Dave Small



# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP						
	LEASE NO.:	NMNM04	NMNM045235					
	LOCATION:	Section 17	Section 17, T.23 S., R.31 E., NMPM					
	COUNTY:	Eddy County, New Mexico						
			•					
I	WELL NAME & NO.:	Fiji 17-5 Fed Com 124H						
	SURFACE HOLE FOOTAGE:	2180'/N & 1670'/E						
	<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 2	2300'/E					
•		•						
I	WELL NAME & NO.:	Fiji 17-5 I	Fed Com 125H					
	SURFACE HOLE FOOTAGE:	2180'/N &						
	<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1	.350'/E					
•		•						
I	WELL NAME & NO.:	Fiji 17-5 Fed Com 126H						
	SURFACE HOLE FOOTAGE:	2180'/N & 1610'/E						
	<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 400'/E						
I	WELL NAME & NO.:	Fiji 17-5 Fed Com 233H						
	SURFACE HOLE FOOTAGE:	2330'/N & 1310'/E						
	<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1980'/E						
I	WELL NAME & NO.:	Fiji 17-5 Fed Com 234H						
	SURFACE HOLE FOOTAGE:	2180'/N & 1280'/E						
	<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 660'/E						
		CO	A					
	770G		F7.7					
	H2S E Yes		□ No	F 2 2 4 4 4 2				
	Potash None		Secretary Secretary	■ R-111-P				
	Cave/Karst Potential Low		☐ Medium	☐ High				
	Cave/Karst Potential Critical							

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Flex Hose

Multibowl

**▼** COM

☐ Capitan Reef

Cement Squeeze

C Other

Both

□WIPP

☐ Unit

☐ Pilot Hole

**Approval Date: 10/23/2020** 

None None

Special Requirements 

Water Disposal

Conventional

☐4 String Area

☐ Fluid Filled

Variance

Wellhead

Other

Other

### 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 **24 hours in the Potash Area** 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. Operator must run a CBL from TD of the 9-5/8" casing to surface. Submit results to BLM.

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

Page 3 of 8

# GENERAL REQUIREMENTS

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

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

  - Lea County
     Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)
     393-3612
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 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

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- 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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