OCD Received 11/4/2020

Form 3160-3 (June 2015)		OMB No	APPROVED . 1004-0137 nuary 31, 2018	
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	5. Lease Serial No. NMNM045235		
APPLICATION FOR PERMIT TO	6. If Indian, Allotee	or Tribe Name		
1a. Type of work: Image: Constraint of the second seco	REENTER	7. If Unit or CA Agr	eement, Name and No.	
	Other Single Zone Multiple Zone	8. Lease Name and V FIJI 17-5 FED COM		
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP		624H 9. API Well No. 30 015 47637		
3a. Address 333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 731	3b. Phone No. (include area code) 10 (405) 235-3611	10. Field and Pool, o Sand Dunes-Wolfc		
 Location of Well (Report location clearly and in accordance At surface SWNE / 2480 FNL / 1340 FEL / LAT 32.30 At proposed prod. zone LOT 1 / 20 FNL / 990 FEL / LAT 	049195 / LONG -103.7956775	SEC 17/T23S/R31E	Blk. and Survey or Area E/MMP	
14. Distance in miles and direction from nearest town or post of	ffice*	12. County or Parish EDDY	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		⁷. Spacing Unit dedicated to the00.0	lis well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 202 feet		BLM/BIA Bond No. in file ED: NMB000801		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3341 feet	22. Approximate date work will star 04/29/2021	t* 23. Estimated duration 45 days	Dn	
The following, completed in accordance with the requirements (as applicable)	24. Attachments of Onshore Oil and Gas Order No. 1, an	nd the Hydraulic Fracturing ru	ıle per 43 CFR 3162.3-3	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO must be filed with the appropriate Forest Service Office 	tem Lands, the 5. Operator certification	perations unless covered by an on. fic information and/or plans as		
25. Signature (Electronic Submission)	Name (Printed/Typed) JENNY HARMS / Ph: (800)	583-3866	Date 05/04/2020	
Title Regulatory Compliance Professional				
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575) 234	4-5959	Date 10/23/2020	
Title Assistant Field Manager Lands & Minerals	Office Carlsbad Field Office			
Application approval does not warrant or certify that the applica applicant to conduct operations thereon. Conditions of approval, if any, are attached.	ant holds legal or equitable title to those	e rights in the subject lease wh	nch 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 statements			ny department or agency	
nuds are not to be used until fresh water zones are cased and cementer rom the oil or diesel. This includes synthetic oils. Oil based mud, dri it be contained in a steel closed loop system. Will require a directional survey with the C-104 NSP Will require administrative order for non-standard nit		through whole or par	I, to prevent ground water contamina tial conduits from the surface, the ithout interruption through the fresh and shall immediately set in cement g	
SL SL	AVED WITH COMPANY	KP 11/5/2	020 GEO Review	

(Continued on page 2)

*(Instructions on page 2) 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

Phone: (575) 748-1285 Fax: (575) 748-9720 <u>District III</u> 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

WELL LOCATION AND ACREAGE DEDICATION PLAT ² Pool Code 96991 Pool Name ¹ API Number 30 015 47637 Sand Dunes Wolfcamp ⁴ Property Code Well Number 5 Property Name 329787 FIJI 17-5 FED COM 624H ⁷OGRID No. ³ Operator Name Elevation **DEVON ENERGY PRODUCTION COMPANY, L.P.** 6137 3341.4 ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 2480 NORTH G 17 23 S **31 E** 1340 EAST EDDY ¹¹ Bottom Hole Location If Different From Surface UL or lot no. Range Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 20 NORTH 990 EAST EDDY 1 5 23 S 31 E ¹² Dedicated Acres ¹³ Joint or Infill ¹⁵ Order No. 14 Consolidation Code 799.7

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 N89'42'57"E 2639.89 FT		17 OPERATOR CERTIFICATION
NW CORNER SEC. 5 LAT. = 32.3407513'N	E 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 to the
LONG. = 103.8084593'W NMSP EAST (FT)	S OF HOLE	LONG. = 103.7913679'W NMSP EAST (FT)	best of my knowledge and belief, and that this organization either owns a
N = 488094.51 E = 703438.55	<u>1</u> <u></u>	N = 488120.70 E = 708717.10	working interest or unleased mineral interest in the land including the proposed
	LAST TAKE POINT BOTTOM OF HOLE		bottom hole location or has a right to drill this well at this location pursuant to
W/4 CORNER SEC. 5	Ž 100' FNL, 990' FEL LAT. = 32.3406963'N LAT. = 32.3404764'N LONG. = 103.7945727'W	E/4 CORNER SEC. 5	a contract with an owner of such a mineral or working interest, or to a
SCALED	LONG. = 103.7945728'W NMSP EAST (FT) N = 488095.79	SCALED	voluntary pooling agreement or a compulsory pooling order heretofore entered
	E = 707727,42		by the division.
	$\sum_{k=1}^{\infty}$ + SEC - 5 +		Sanne Harnes 4-30-2020
SECTION CORNER	16.20	SECTION CORNER	- BUILLOUT
LAT. = 32.3262579'N LONG. = 103.8084618'W	N89'43'03"E N89'43'03"E	LAT. = 32.3262572'N LONG. = 103.7913749'W	Signature / Date
NMSP EAST (FT) N = 482821.92	2639.71 FT QUARTER CORNER 2639.51 FT C SCALED L	NMSP EAST (FT) N = 482847.94	JENNY HARMS
E = 703463.60	ARE SHOWN USING THE NORTH AMERICAN DATUM	E = 708741.61	Printed Name
			JENNY.HARMS@DVN.COM
W/4 CORNER SEC. 8	2 NEW MEXICO STATE PLANE EAST COORDINATES	E/4 CORNER SEC. 8	E-mail Address
LAT. = 32.3189800'N LONG. = 103.8083948'W	MODIFIED TO THE SURFACE. ELEVATION VALUES	LAT. = 32.3189989'N LONG. = 103.7913664'W	
NMSP EAST (FT) N = 480174.34		NMSP EAST (FT) N = 480207.40	
E = 703497.28	12	E = 708757.59	¹⁸ SURVEYOR CERTIFICATION
	QUARTER CORNER	b N	I hereby certify that the well location shown on this plat was
SECTION CORNER	LONG. = 103.7998687'W	S SECTION CORNER	plotted from field notes of actual surveys made by me or under
LAT. = 32,3117261'N LONG. = 103,8083913'W	N = 4.7550.82 N89'39'56"E E = 706144.24 N89'40'33"E	LAT. = 32.3117373'N LONG. = 103.7913521'W	my supervision, and that the same is true and correct to the
NMSP EAST (FT) N = 477535.44	2633.56 FT 2631.73 FT	NMSP EAST (FT) N = 477565.71	best of my belief.
E = 703511.29	₹ FIJI 17-5 FED COM 624H ♀ ELEV. = 3341.4'	¢ E = 708775.36	MARCH 12, 2020
	× LAT. = 32.3049195'N (NAD83) ≯ LONG. = 103.7956775'V 0	р И	MARCH 12, 2020
W/4 CORNER SEC. 17	NMSP EAST (FT) SURFACE	5 E/4 CORNER SEC. 17	Date of Survey
LAT. = 32.3044702'N LONG. = 103.8083875'W	BE = 707451.52	LAT. = 32.3044773'N LONG. = 103.7913406'W	
NMSP EAST (FT) N = 474895.81	2540' FNL, 990' FEL FTP-	NMSP EAST (FT) N = 474924.59	ANN BRANK
E = 703525.38	B LONG. = 103.7945446 W SEC. 17	R = 708792.27	
SW CORNER SEC. 17 LAT. = 32.2971958'N	× S/4 CORNER_SEC_17 +	SE CORNER SEC. 17 LAT. = 32.2972174'N	Signature and Seal of Protestional Securitor:
LONG. = 103.8083921'W NMSP EAST (FT)	B LONG. = 103.7998470'W MMSP EAST (FT)	5 LONG. = 103.7913314'W S NMSP EAST (FT)	Certificate Number: FLEDON E JARAMELLO, PJS 12797
$N = 472249.42 \\ E = 703536.92$	N = 472269.45 E = 706177.25	N = 472283.52 E = 708808.46	PROFESSION NO. 8043
	\$89'33'55"W 2640.98 FT \$89'41'38"W 2631.82 FT		

Intent	Х	As Drilled	
--------	---	------------	--

API #

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	FIJI 17-5 FED COM	624H

Kick Off Point (KOP)

UL H	Section 17	Township 23S	Range 31E	Lot	Feet 2530 FNL	From N/S	Feet 990 FEL	From E/W	County EDDY
Latitu 32	^{de} .304777	00			Longitude -103.794	154600			NAD 83

First Take Point (FTP)

UL H	Section 17	Township 23 S	Range 31E	Lot	Feet 2540	From N/S NORTH	Feet 990	From E/W EAST	County EDDY
Latitude				Longitude		NAD			
32.3	32.3047552			103.7945	5446	83			

Last Take Point (LTP)

UL A	Section 5	Township 23S	Range 31E	Lot 1	Feet 100	From N/S NORTH	Feet 990	From E/W EAST	County EDDY
Latitu	de				Longitud	le			NAD
32.3	840476	4			103.7	945728			83

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

Is this well an infill well?

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: 10400056793

Submission Date: 05/04/2020

Highlighted data reflects the most recent changes

Well Name: FIJI 17-5 FED COM

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Type: OIL WELL

Well Number: 624H

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
729112	UNKNOWN	3339	0	0	OTHER : SURFACE	NONE	N
729113	RUSTLER	2929	410	410	SANDSTONE	NONE	N
729114	SALADO	2619	720	720	SALT	NONE	N
729115	BASE OF SALT	-491	3830	3830	ANHYDRITE	NATURAL GAS, OIL	N
729116	BELL CANYON	-741	4080	4080	SANDSTONE	NATURAL GAS, OIL	N
729117	CHERRY CANYON	-1671	5010	5010	SANDSTONE	NATURAL GAS, OIL	N
729118	BRUSHY CANYON	-2971	6310	6310	SANDSTONE	NATURAL GAS, OIL	N
729125	BONE SPRING LIME	-4645	7984	7984	LIMESTONE	NATURAL GAS, OIL	N
729119	BONE SPRING	-5744	9083	9083	SANDSTONE	NATURAL GAS, OIL	N
729121	BONE SPRING 2ND	-6278	9617	9617	SANDSTONE	NATURAL GAS, OIL	N
729126	BONE SPRING LIME	-6816	10155	10155	LIMESTONE	NATURAL GAS, OIL	N
729122	BONE SPRING 3RD	-7461	10800	10800	SANDSTONE	NATURAL GAS, OIL	N
729123	WOLFCAMP	-7891	11230	11230	SHALE	NATURAL GAS, OIL	Y
729124	STRAWN	-9511	12850	12850	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention

Drilling Plan Data Report

11/03/2020

1. Geologic Formations

TVD of target	11355	Pilot hole depth	N/A
MD at TD:	24186	Deepest expected fresh water	

Basin

	Depth	Water/Mineral			
Formation	(TVD)	Bearing/Target	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	48.0	H40	STC	0	435	0	435
9 7/8	8 5/8	32.0	P110	TLW	0	10800	0	10800
7 7/8	5 1/2	17.0	P110	BTC	0	24186	0	11355

2. Casing Program (Primary Design)

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

3. Cementing Program (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	353	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	382	Surf	9	3.27	Lead: Class C Cement + additives
Int I	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	382	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	8791	9.0	3.3	Lead: Class H /C + additives
	1773	10791	13.2	1.4	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:																														
			Annular		Х	50% of rated working pressure																														
Int 1	13-58"	5M		l Ram	Х																															
	15-50	5111	1	Ram		5M																														
			Doub	le Ram	Х	5101																														
			Other*																																	
	13-5/8"	5M	Annular (5M)		Х	50% of rated working pressure																														
Production			Blind Ram		Х																															
Tioduction			JIVI	JIVI	5111	5111	JIVI	JIVI	JIVI	JIVI	5101	5101	5111	5111	5101	5111	5101	5101	5101	5101	5111	511/1	5101	5101	5101	5101	5101	5101	5101	5111	5111	5101	5101	5101	Pipe Ram	
			Doub	le Ram	Х	5101																														
			Other*																																	
			Annul	ar (5M)																																
			Bline	d Ram																																
			Pipe Ram																																	
			Double Ram																																	
			Other*																																	
N A variance is requested for	the use of a	a diverter or	the surface	casing. See	attached for s	chematic.																														
Y A variance is requested to r	A variance is requested to run a 5 M annular on a 10M system																																			

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

Logging, C	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							
Х	Completion Rpeort 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	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6200
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.

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

Fiji 17-5 Fed Com 624H

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

Will be pre-setting casing? Potentially

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

Attachments

X Directional Plan Other, describe

WCDSC Permian NM

Eddy County (NAD 83 NM Eastern) Sec 17-T23S-R31E Fiji 17-5 Fed Com 624H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

26 April, 2020

Planning Report - Geographic

Database: Company: Project: Site: Well: Wellbore: Design:	WCD Eddy Sec 1 Fiji 17 Wellb	EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 17-T23S-R31E Fiji 17-5 Fed Com 624H Wellbore #1 Permit Plan 1				Local Co-ordinate Reference:Well Fiji 17-5 Fed Com 624HTVD Reference:RKB @ 3366.40ftMD Reference:RKB @ 3366.40ftNorth Reference:GridSurvey Calculation Method:Minimum Curvature				
Project	Eddy C	County (NAD 83	3 NM Eastern)							
Map System: Geo Datum: Map Zone:	North Ar	e Plane 1983 merican Datum xico Eastern Zo			System Dat	tum:	M	ean Sea Level		
Site	Sec 17	7-T23S-R31E								
Site Position: From: Position Uncert	Ma ainty:	•	Northi Eastin 0.00 ft Slot R	g:		,535.44 usft ,511.29 usft 13-3/16 "	Latitude: Longitude: Grid Converg	jence:		32.311726 -103.808392 0.28 °
Well	Fiji 17-	5 Fed Com 624	H							
Well Position Position Uncert	+N/-S +E/-W ainty		0.00 ft Ea	orthing: sting: ellhead Eleva	tion:	475,078.71 707,451.52	usft Loi	itude: ngitude: ound Level:		32.304920 -103.795678 3,341.40 ft
Wellbore	Wellbo	ore #1								
Magnetics	Мо	odel Name	Sample	e Date	Declina (°)	tion		Angle °)		Strength nT)
		IGRF2015		4/13/2020		6.76		60.06	47,6	372.81785424
Design	Permit	Plan 1								
Audit Notes:										
Version:			Phase	e: I	PROTOTYPE	Tie	On Depth:		0.00	
Vertical Section	1:	C	Depth From (TV (ft)	/D)	+N/-S (ft)		/-W ft)	Di	rection (°)	
			0.00		0.00		00		1.21	
Plan Survey To Depth Fro (ft) 1	om Dept (f		4/26/2020 (Wellbore) Plan 1 (Wellbor	e #1)	Tool Name MWD+HDGM OWSG MWD		Remarks			
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 3,500.00 3,802.99 10,239.24 10,441.23	0.00 0.00 3.03 3.03 0.00	0.00 0.00 98.13 98.13 0.00	0.00 3,500.00 3,802.85 10,230.10 10,432.00	0.00 0.00 -1.13 -49.24 -50.00	0.00 0.00 7.93 344.71 350.00	0.00 0.00 1.00 0.00 1.50	0.00 0.00 1.00 0.00 -1.50	0.00 0.00 0.00 0.00 0.00	0.00 0.00 98.13 0.00 180.00	
10,791.27 11,691.27 24,185.63	0.00 90.00 90.00	0.00 359.68 359.68	10,782.04 11,355.00 11,355.00	-50.00 522.95 13,017.11	350.00 346.75 275.90	0.00 10.00 0.00	0.00 10.00 0.00	0.00 0.00 0.00		PBHL - Fiji 17-5 Fed (PBHL - Fiji 17-5 Fed (

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 624H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3366.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3366.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 624H	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	475,078.71	707,451.52	32.304920	-103.795678
100.00		0.00	100.00	0.00	0.00	475,078.71	707,451.52	32.304920 32.304920	-103.795678
200.00		0.00	200.00	0.00	0.00	475,078.71	707,451.52		-103.795678
300.00 400.00		0.00 0.00	300.00 400.00	0.00 0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678 -103.795678
500.00		0.00	400.00 500.00	0.00	0.00 0.00	475,078.71 475,078.71	707,451.52 707,451.52	32.304920 32.304920	-103.795678
600.00		0.00	600.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
700.00		0.00	700.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
800.00		0.00	800.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
900.00		0.00	900.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,000.00		0.00	1,000.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,100.00		0.00	1,100.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,200.00		0.00	1,200.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,300.00		0.00	1,300.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,400.00		0.00	1,400.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,500.00		0.00	1,500.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,600.00		0.00	1,600.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,700.00		0.00	1,700.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,800.00		0.00	1,800.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
1,900.00	0.00	0.00	1,900.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,000.00	0.00	0.00	2,000.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,100.00	0.00	0.00	2,100.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,200.00	0.00	0.00	2,200.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,300.00	0.00	0.00	2,300.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,400.00	0.00	0.00	2,400.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,500.00	0.00	0.00	2,500.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,600.00	0.00	0.00	2,600.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,700.00	0.00	0.00	2,700.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,800.00	0.00	0.00	2,800.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
2,900.00		0.00	2,900.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,000.00		0.00	3,000.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,100.00		0.00	3,100.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,200.00		0.00	3,200.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,300.00		0.00	3,300.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,400.00		0.00	3,400.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,500.00		0.00	3,500.00	0.00	0.00	475,078.71	707,451.52	32.304920	-103.795678
3,600.00		98.13	3,600.00	-0.12	0.86	475,078.59	707,452.38	32.304919	-103.795675
3,700.00		98.13	3,699.96	-0.49	3.46	475,078.22	707,454.97	32.304918	-103.795667
3,800.00		98.13	3,799.86	-1.11	7.77	475,077.60	707,459.29	32.304916	-103.795653
3,802.99		98.13	3,802.85	-1.13	7.93	475,077.58	707,459.44	32.304916	-103.795652
3,900.00		98.13	3,899.72	-1.86	13.01	475,076.85	707,464.52	32.304914	-103.795636
4,000.00 4,100.00		98.13 98.13	3,999.58 4,099.44	-2.61 -3.35	18.24 23.47	475,076.11 475,075.36	707,469.75 707,474.99	32.304912 32.304910	-103.795619 -103.795602
4,100.00		98.13 98.13	4,099.44 4,199.30	-3.35	28.70	475,074.61	707,474.99	32.304910	-103.795585
4,200.00		98.13	4,199.30	-4.85	33.94	475,073.86	707,485.45	32.304906	-103.795568
4,300.00		98.13	4,399.02	-4.60	39.17	475,073.12	707,490.68	32.304900	-103.795551
4,400.00		98.13	4,498.88	-6.34	44.40	475,072.37	707,495.92	32.304902	-103.795534
4,600.00		98.13	4,598.74	-7.09	49.63	475,071.62	707,501.15	32.304899	-103.795517
4,000.00		98.13	4,698.60	-7.84	49.03 54.87	475,070.87	707,506.38	32.304897	-103.795500
4,800.00		98.13	4,798.47	-8.59	60.10	475,070.13	707,511.61	32.304895	-103.795483
4,900.00		98.13	4,898.33	-9.33	65.33	475,069.38	707,516.85	32.304893	-103.795466
5,000.00		98.13	4,998.19	-10.08	70.56	475,068.63	707,522.08	32.304891	-103.795450
5,100.00		98.13	5,098.05	-10.83	75.80	475,067.88	707,527.31	32.304889	-103.795433
5,200.00		98.13	5,197.91	-11.58	81.03	475,067.14	707,532.54	32.304887	-103.795416
5,300.00		98.13	5,297.77	-12.32	86.26	475,066.39	707,537.78	32.304884	-103.795399

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 624H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3366.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3366.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 624H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)	Latitude	Longitude
5,400.00		98.13	5,397.63	-13.07	91.49	475,065.64	707,543.01	32.304882	-103.795382
5,500.00		98.13	5,497.49	-13.82	96.73	475,064.89	707,548.24	32.304880	-103.795365
5,600.00	3.03	98.13	5,597.35	-14.57	101.96	475,064.14	707,553.48	32.304878	-103.795348
5,700.00	3.03	98.13	5,697.21	-15.31	107.19	475,063.40	707,558.71	32.304876	-103.795331
5,800.00	3.03	98.13	5,797.07	-16.06	112.43	475,062.65	707,563.94	32.304874	-103.795314
5,900.00	3.03	98.13	5,896.93	-16.81	117.66	475,061.90	707,569.17	32.304872	-103.795297
6,000.00		98.13	5,996.79	-17.56	122.89	475,061.15	707,574.41	32.304870	-103.795280
6,100.00		98.13	6,096.65	-18.30	128.12	475,060.41	707,579.64	32.304867	-103.795263
6,200.00		98.13	6,196.51	-19.05	133.36	475,059.66	707,584.87	32.304865	-103.795246
6,300.00		98.13	6,296.37	-19.80	138.59	475,058.91	707,590.10	32.304863	-103.795230
6,400.00		98.13	6,396.23	-20.55	143.82	475,058.16	707,595.34	32.304861	-103.795213
6,500.00		98.13	6,496.09	-21.29	149.05	475,057.42	707,600.57	32.304859	-103.795196
6,600.00		98.13	6,595.95	-22.04	154.29	475,056.67	707,605.80	32.304857	-103.795179
6,700.00		98.13	6,695.81	-22.79	159.52	475,055.92	707,611.03	32.304855	-103.795162
6,800.00		98.13	6,795.67	-23.54	164.75	475,055.17	707,616.27	32.304853	-103.795145
6,900.00		98.13	6,895.53	-24.28	169.98	475,054.43	707,621.50	32.304850	-103.795128
7,000.00		98.13	6,995.39	-25.03	175.22	475,053.68	707,626.73	32.304848	-103.795111
7,100.00		98.13	7,095.25	-25.78	180.45	475,052.93	707,631.96	32.304846	-103.795094
7,200.00		98.13	7,195.11	-26.53	185.68	475,052.18	707,637.20	32.304844	-103.795077
7,300.00 7,400.00		98.13	7,294.97	-27.27 -28.02	190.91 196.15	475,051.44	707,642.43 707,647.66	32.304842 32.304840	-103.795060 -103.795043
· ·		98.13	7,394.83			475,050.69 475,049.94	,		-103.795043
7,500.00 7,600.00		98.13 98.13	7,494.69 7,594.55	-28.77 -29.52	201.38 206.61	475,049.19	707,652.90 707,658.13	32.304838 32.304836	-103.795020
7,700.00		98.13	7,694.55	-29.52	200.01	475,049.19	707,663.36	32.304833	-103.794993
7,800.00		98.13	7,094.41	-30.20	211.85	475,047.70	707,668.59	32.304833	-103.794993
7,900.00		98.13	7,894.13	-31.76	222.31	475,046.95	707,673.83	32.304829	-103.794959
8,000.00		98.13	7,993.99	-32.51	227.54	475,046.20	707,679.06	32.304827	-103.794942
8,100.00		98.13	8,093.85	-33.25	232.78	475,045.46	707,684.29	32.304825	-103.794925
8,200.00		98.13	8,193.71	-34.00	238.01	475,044.71	707,689.52	32.304823	-103.794908
8,300.00		98.13	8,293.57	-34.75	243.24	475,043.96	707,694.76	32.304821	-103.794891
8,400.00		98.13	8,393.43	-35.50	248.47	475,043.21	707,699.99	32.304819	-103.794874
8,500.00		98.13	8,493.29	-36.24	253.71	475,042.47	707,705.22	32.304816	-103.794857
8,600.00		98.13	8,593.15	-36.99	258.94	475,041.72	707,710.45	32.304814	-103.794840
8,700.00		98.13	8,693.01	-37.74	264.17	475,040.97	707,715.69	32.304812	-103.794823
8,800.00		98.13	8,792.87	-38.49	269.40	475,040.22	707,720.92	32.304810	-103.794806
8,900.00	3.03	98.13	8,892.73	-39.23	274.64	475,039.48	707,726.15	32.304808	-103.794790
9,000.00	3.03	98.13	8,992.59	-39.98	279.87	475,038.73	707,731.38	32.304806	-103.794773
9,100.00	3.03	98.13	9,092.45	-40.73	285.10	475,037.98	707,736.62	32.304804	-103.794756
9,200.00	3.03	98.13	9,192.31	-41.48	290.33	475,037.23	707,741.85	32.304802	-103.794739
9,300.00	3.03	98.13	9,292.17	-42.22	295.57	475,036.49	707,747.08	32.304799	-103.794722
9,400.00	3.03	98.13	9,392.03	-42.97	300.80	475,035.74	707,752.31	32.304797	-103.794705
9,500.00	3.03	98.13	9,491.89	-43.72	306.03	475,034.99	707,757.55	32.304795	-103.794688
9,600.00		98.13	9,591.76	-44.47	311.27	475,034.24	707,762.78	32.304793	-103.794671
9,700.00		98.13	9,691.62	-45.21	316.50	475,033.50	707,768.01	32.304791	-103.794654
9,800.00		98.13	9,791.48	-45.96	321.73	475,032.75	707,773.25	32.304789	-103.794637
9,900.00		98.13	9,891.34	-46.71	326.96	475,032.00	707,778.48	32.304787	-103.794620
10,000.00		98.13	9,991.20	-47.46	332.20	475,031.25	707,783.71	32.304785	-103.794603
10,100.00		98.13	10,091.06	-48.20	337.43	475,030.51	707,788.94	32.304782	-103.794586
10,200.00		98.13	10,190.92	-48.95	342.66	475,029.76	707,794.18	32.304780	-103.794570
10,239.24		98.13	10,230.10	-49.24	344.71	475,029.47	707,796.23	32.304779	-103.794563
10,300.00		98.13	10,290.80	-49.63	347.42	475,029.08	707,798.93	32.304778	-103.794554
10,400.00		98.13	10,390.77	-49.97	349.78	475,028.74	707,801.29	32.304777	-103.794546
10,441.23		0.00	10,432.00	-50.00	350.00	475,028.71	707,801.52	32.304777	-103.794546
10,500.00		0.00	10,490.77	-50.00	350.00	475,028.71	707,801.52	32.304777	-103.794546
10,600.00	0.00	0.00	10,590.77	-50.00	350.00	475,028.71	707,801.52	32.304777	-103.794546

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 624H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3366.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3366.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 624H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

(ft) (°) (°) (ft) (ft) (usft) (usft) Lat 10,700.00 0.00 0.00 10,690.77 -50.00 350.00 475,028.71 707,801.52 10,791.27 0.00 0.00 10,782.04 -50.00 350.00 475,028.71 707,801.52	titude Longitude 32.304777 -103.1 00.001777 -103.1	-
		704540
		794546
KOP & FTP @ 10791' MD, 2530' FNL, 990' FEL	32.304777 -103.7	794540
10,800.00 0.87 359.68 10,790.77 -49.93 350.00 475,028.78 707,801.51	32.304777 -103.3	794546
10,900.00 10.87 359.68 10,890.12 -39.71 349.94 475,039.00 707,801.46		794546
11,000.00 20.87 359.68 10,986.18 -12.40 349.79 475,066.31 707,801.30		794546
11,100.00 30.87 359.68 11,076.04 31.18 349.54 475,109.89 707,801.05		794546
11,200.00 40.87 359.68 11,156.97 89.70 349.21 475,168.42 707,800.72		794546
11,300.00 50.87 359.68 11,226.51 161.39 348.80 475,240.10 707,800.32	32.305358 -103.3	794546
11,400.00 60.87 359.68 11,282.54 244.06 348.33 475,322.77 707,799.85	32.305586 -103.3	794546
11,500.00 70.87 359.68 11,323.37 335.21 347.82 475,413.92 707,799.33	32.305836 -103.3	794547
11,600.00 80.87 359.68 11,347.74 432.06 347.27 475,510.77 707,798.78	32.306102 -103.3	794547
11,691.27 90.00 359.68 11,355.00 522.95 346.75 475,601.66 707,798.27		794547
11,700.00 90.00 359.68 11,355.00 531.67 346.70 475,610.38 707,798.22		794547
11,800.00 90.00 359.68 11,355.00 631.67 346.13 475,710.38 707,797.65		794547
11,900.00 90.00 359.68 11,355.00 731.67 345.57 475,810.38 707,797.08		794547
12,000.00 90.00 359.68 11,355.00 831.67 345.00 475,910.38 707,796.52		794548
12,100.00 90.00 359.68 11,355.00 931.67 344.43 476,010.38 707,795.95		794548
12,200.00 90.00 359.68 11,355.00 1,031.67 343.87 476,110.38 707,795.38		794548
12,300.00 90.00 359.68 11,355.00 1,131.67 343.30 476,210.37 707,794.81 12,400.00 90.00 359.68 11,355.00 1,231.66 342.73 476,310.37 707,794.25		794548 794548
12,400.00 90.00 359.68 11,355.00 1,231.66 342.17 476,410.37 707,793.68		794548
12,600.00 90.00 359.68 11,355.00 1,431.66 341.60 476,510.37 707,793.11		794549
12,700.00 90.00 359.68 11,355.00 1,531.66 341.03 476,610.37 707,792.55		794549
12,800.00 90.00 359.68 11,355.00 1,631.66 340.46 476,710.36 707,791.98		794549
12,900.00 90.00 359.68 11,355.00 1,731.66 339.90 476,810.36 707,791.41		794549
13,000.00 90.00 359.68 11,355.00 1,831.65 339.33 476,910.36 707,790.84		794550
13,100.00 90.00 359.68 11,355.00 1,931.65 338.76 477,010.36 707,790.28		794550
13,200.00 90.00 359.68 11,355.00 2,031.65 338.20 477,110.36 707,789.71	32.310499 -103.3	794550
13,300.00 90.00 359.68 11,355.00 2,131.65 337.63 477,210.36 707,789.14	32.310774 -103.3	794550
13,400.00 90.00 359.68 11,355.00 2,231.65 337.06 477,310.35 707,788.58	32.311049 -103.	794551
13,500.00 90.00 359.68 11,355.00 2,331.65 336.49 477,410.35 707,788.01	32.311324 -103.3	794551
13,600.00 90.00 359.68 11,355.00 2,431.64 335.93 477,510.35 707,787.44	32.311599 -103.3	794551
13,648.00 90.00 359.68 11,355.00 2,479.64 335.66 477,558.35 707,787.17	32.311731 -103.3	794551
Cross section @ 13648' MD, 0' FSL, 990' FEL		
13,700.00 90.00 359.68 11,355.00 2,531.64 335.36 477,610.35 707,786.88		794551
13,800.00 90.00 359.68 11,355.00 2,631.64 334.79 477,710.35 707,786.31		794551
13,900.00 90.00 359.68 11,355.00 2,731.64 334.23 477,810.34 707,785.74		794552
14,000.00 90.00 359.68 11,355.00 2,831.64 333.66 477,910.34 707,785.17		794552
14,100.00 90.00 359.68 11,355.00 2,931.64 333.09 478,010.34 707,784.61		794552
14,200.00 90.00 359.68 11,355.00 3,031.63 332.53 478,110.34 707,784.04		794552
14,300.00 90.00 359.68 11,355.00 3,131.63 331.96 478,210.34 707,783.47 14,400.00 90.00 359.68 11,355.00 3,231.63 331.39 478,310.34 707,782.91		794552
		794553
14,500.00 90.00 359.68 11,355.00 3,331.63 330.82 478,410.33 707,782.34 14,600.00 90.00 359.68 11,355.00 3,431.63 330.26 478,510.33 707,781.77		794553 794553
14,000.00 90.00 359.68 11,355.00 3,531.63 329.69 478,510.33 707,781.20		794553
14,800.00 90.00 359.68 11,355.00 3,631.63 329.12 478,710.33 707,780.64		794553
14,900.00 90.00 359.68 11,355.00 3,731.62 328.56 478,810.33 707,780.07		794554
15,000.00 90.00 359.68 11,355.00 3,831.62 327.99 478,910.32 707,779.50		794554
15,100.00 90.00 359.68 11,355.00 3,931.62 327.42 479,010.32 707,778.94		794554
15,200.00 90.00 359.68 11,355.00 4,031.62 326.85 479,110.32 707,778.37		794554
15,300.00 90.00 359.68 11,355.00 4,131.62 326.29 479,210.32 707,777.80		794554
15,400.00 90.00 359.68 11,355.00 4,231.62 325.72 479,310.32 707,777.24		794555
15,500.00 90.00 359.68 11,355.00 4,331.61 325.15 479,410.32 707,776.67	32.316822 -103.3	794555

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 624H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3366.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3366.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 624H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

(ft) (°) (°) (ft) (ft) (usft) (usft) Latitude L 15,600.00 90.00 359.68 11,355.00 4,431.61 324.59 479,510.31 707,776.10 32.317096 15,700.00 90.00 359.68 11,355.00 4,531.61 324.02 479,610.31 707,775.53 32.317371 15,800.00 90.00 359.68 11,355.00 4,631.61 323.45 479,710.31 707,774.97 32.317646 15,900.00 90.00 359.68 11,355.00 4,731.61 322.89 479,810.31 707,774.40 32.317921 16,000.00 90.00 359.68 11,355.00 4,831.61 322.32 479,910.31 707,773.83 32.318196	Longitude -103.794555 -103.794555 -103.794556 -103.794556 -103.794556 -103.794556 -103.794556 -103.794557
15,700.0090.00359.6811,355.004,531.61324.02479,610.31707,775.5332.31737115,800.0090.00359.6811,355.004,631.61323.45479,710.31707,774.9732.31764615,900.0090.00359.6811,355.004,731.61322.89479,810.31707,774.4032.317921	-103.794555 -103.794556 -103.794556 -103.794556 -103.794556 -103.794556 -103.794556
15,800.0090.00359.6811,355.004,631.61323.45479,710.31707,774.9732.31764615,900.0090.00359.6811,355.004,731.61322.89479,810.31707,774.4032.317921	-103.794556 -103.794556 -103.794556 -103.794556 -103.794556
15,900.00 90.00 359.68 11,355.00 4,731.61 322.89 479,810.31 707,774.40 32.317921	-103.794556 -103.794556 -103.794556 -103.794556
	-103.794556 -103.794556 -103.794556
	-103.794556 -103.794556
	-103.794556
16,100.00 90.00 359.68 11,355.00 4,931.60 321.75 480,010.31 707,773.27 32.318471	
16,200.00 90.00 359.68 11,355.00 5,031.60 321.18 480,110.30 707,772.70 32.318746	-103.794557
16,300.00 90.00 359.68 11,355.00 5,131.60 320.62 480,210.30 707,772.13 32.319021	100 70 1557
16,400.00 90.00 359.68 11,355.00 5,231.60 320.05 480,310.30 707,771.56 32.319295	-103.794557
16,500.00 90.00 359.68 11,355.00 5,331.60 319.48 480,410.30 707,771.00 32.319570	-103.794557
16,600.00 90.00 359.68 11,355.00 5,431.60 318.92 480,510.30 707,770.43 32.319845	-103.794557
16,700.00 90.00 359.68 11,355.00 5,531.59 318.35 480,610.29 707,769.86 32.320120	-103.794557
16,800.00 90.00 359.68 11,355.00 5,631.59 317.78 480,710.29 707,769.30 32.320395	-103.794558
16,900.00 90.00 359.68 11,355.00 5,731.59 317.21 480,810.29 707,768.73 32.320670	-103.794558
17,000.00 90.00 359.68 11,355.00 5,831.59 316.65 480,910.29 707,768.16 32.320945	-103.794558
17,100.00 90.00 359.68 11,355.00 5,931.59 316.08 481,010.29 707,767.60 32.321220 17,200.00 90.00 359.68 11,355.00 6,031.59 315.51 481,110.29 707,767.03 32.321494	-103.794558 -103.794558
17,300.00 90.00 359.68 11,355.00 6,131.59 314.95 481,210.28 707,766.46 32.321769 17,400.00 90.00 359.68 11,355.00 6,231.58 314.38 481,310.28 707,765.89 32.322044	-103.794559 -103.794559
17,400.00 90.00 359.68 11,355.00 6,331.58 314.38 461,310.28 707,765.33 32.322319	-103.794559
17,500.00 90.00 359.68 11,355.00 6,431.58 313.25 481,510.28 707,764.76 32.322594	-103.794559
17,700.00 90.00 359.68 11,355.00 6,531.58 312.68 481,610.28 707,764.19 32.322869	-103.794559
17,800.00 90.00 359.68 11,355.00 6,631.58 312.08 461,010.28 707,704.19 52.522809 17,800.00 90.00 359.68 11,355.00 6,631.58 312.11 481,710.27 707,763.63 32.323144	-103.794550
17,900.00 90.00 359.68 11,355.00 6,731.58 311.54 481,810.27 707,763.06 32.323419	-103.794560
18,000.00 90.00 359.68 11,355.00 6,831.57 310.98 481,910.27 707,762.49 32.323693	-103.794560
18,100.00 90.00 359.68 11,355.00 6,931.57 310.41 482,010.27 707,761.92 32.323968	-103.794560
18,200.00 90.00 359.68 11,355.00 7,031.57 309.84 482,110.27 707,761.36 32.324243	-103.794561
18,300.00 90.00 359.68 11,355.00 7,131.57 309.28 482,210.27 707,760.79 32.324518	-103.794561
18,400.00 90.00 359.68 11,355.00 7,231.57 308.71 482,310.26 707,760.22 32.324793	-103.794561
18,500.00 90.00 359.68 11,355.00 7,331.57 308.14 482,410.26 707,759.66 32.325068	-103.794561
18,600.00 90.00 359.68 11,355.00 7,431.56 307.57 482,510.26 707,759.09 32.325343	-103.794561
18,700.00 90.00 359.68 11,355.00 7,531.56 307.01 482,610.26 707,758.52 32.325618	-103.794562
18,800.00 90.00 359.68 11,355.00 7,631.56 306.44 482,710.26 707,757.96 32.325893	-103.794562
18,900.00 90.00 359.68 11,355.00 7,731.56 305.87 482,810.25 707,757.39 32.326167	-103.794562
18,936.00 90.00 359.68 11,355.00 7,767.56 305.67 482,846.25 707,757.18 32.326266	-103.794562
Cross section @ 18936' MD, 0' FSL, 990' FEL	
19,000.00 90.00 359.68 11,355.00 7,831.56 305.31 482,910.25 707,756.82 32.326442	-103.794562
19,100.00 90.00 359.68 11,355.00 7,931.56 304.74 483,010.25 707,756.25 32.326717	-103.794562
19,200.00 90.00 359.68 11,355.00 8,031.55 304.17 483,110.25 707,755.69 32.326992	-103.794563
19,300.00 90.00 359.68 11,355.00 8,131.55 303.60 483,210.25 707,755.12 32.327267	-103.794563
19,400.00 90.00 359.68 11,355.00 8,231.55 303.04 483,310.25 707,754.55 32.327542	-103.794563
19,500.00 90.00 359.68 11,355.00 8,331.55 302.47 483,410.24 707,753.99 32.327817	-103.794563
19,600.00 90.00 359.68 11,355.00 8,431.55 301.90 483,510.24 707,753.42 32.328092	-103.794563
19,700.00 90.00 359.68 11,355.00 8,531.55 301.34 483,610.24 707,752.85 32.328366	-103.794564
19,800.00 90.00 359.68 11,355.00 8,631.54 300.77 483,710.24 707,752.28 32.328641	-103.794564
19,900.00 90.00 359.68 11,355.00 8,731.54 300.20 483,810.24 707,751.72 32.328916	-103.794564
20,000.00 90.00 359.68 11,355.00 8,831.54 299.64 483,910.23 707,751.15 32.329191	-103.794564
20,100.00 90.00 359.68 11,355.00 8,931.54 299.07 484,010.23 707,750.58 32.329466	-103.794564
20,200.00 90.00 359.68 11,355.00 9,031.54 298.50 484,110.23 707,750.02 32.329741	-103.794565
20,300.00 90.00 359.68 11,355.00 9,131.54 297.93 484,210.23 707,749.45 32.330016	-103.794565
20,400.00 90.00 359.68 11,355.00 9,231.54 297.37 484,310.23 707,748.88 32.330291	-103.794565
20,500.00 90.00 359.68 11,355.00 9,331.53 296.80 484,410.23 707,748.32 32.330565	-103.794565
20,600.00 90.00 359.68 11,355.00 9,431.53 296.23 484,510.22 707,747.75 32.330840	-103.794566
20,700.00 90.00 359.68 11,355.00 9,531.53 295.67 484,610.22 707,747.18 32.331115	-103.794566

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Fiji 17-5 Fed Com 624H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3366.40ft
Project:	Eddy County (NAD 83 NM Eastern)	MD Reference:	RKB @ 3366.40ft
Site:	Sec 17-T23S-R31E	North Reference:	Grid
Well:	Fiji 17-5 Fed Com 624H	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
20,800.00	90.00	359.68	11,355.00	9,631.53	295.10	484,710.22	707,746.61	32.331390	-103.794566
20,900.00	90.00	359.68	11,355.00	9,731.53	294.53	484,810.22	707,746.05	32.331665	-103.794566
21,000.00	90.00	359.68	11,355.00	9,831.53	293.96	484,910.22	707,745.48	32.331940	-103.794566
21,100.00	90.00	359.68	11,355.00	9,931.52	293.40	485,010.21	707,744.91	32.332215	-103.794567
21,200.00	90.00	359.68	11,355.00	10,031.52	292.83	485,110.21	707,744.35	32.332490	-103.794567
21,300.00	90.00	359.68	11,355.00	10,131.52	292.26	485,210.21	707,743.78	32.332764	-103.794567
21,400.00	90.00	359.68	11,355.00	10,231.52	291.70	485,310.21	707,743.21	32.333039	-103.794567
21,500.00	90.00	359.68	11,355.00	10,331.52	291.13	485,410.21	707,742.64	32.333314	-103.794567
21,600.00	90.00	359.68	11,355.00	10,431.52	290.56	485,510.21	707,742.08	32.333589	-103.794568
21,700.00	90.00	359.68	11,355.00	10,531.51	290.00	485,610.20	707,741.51	32.333864	-103.794568
21,800.00	90.00	359.68	11,355.00	10,631.51	289.43	485,710.20	707,740.94	32.334139	-103.794568
21,900.00	90.00	359.68	11,355.00	10,731.51	288.86	485,810.20	707,740.38	32.334414	-103.794568
22,000.00	90.00	359.68	11,355.00	10,831.51	288.29	485,910.20	707,739.81	32.334689	-103.794568
22,100.00	90.00	359.68	11,355.00	10,931.51	287.73	486,010.20	707,739.24	32.334963	-103.794569
22,200.00	90.00	359.68	11,355.00	11,031.51	287.16	486,110.19	707,738.68	32.335238	-103.794569
22,300.00	90.00	359.68	11,355.00	11,131.50	286.59	486,210.19	707,738.11	32.335513	-103.794569
22,400.00	90.00	359.68	11,355.00	11,231.50	286.03	486,310.19	707,737.54	32.335788	-103.794569
22,500.00	90.00	359.68	11,355.00	11,331.50	285.46	486,410.19	707,736.97	32.336063	-103.794569
22,600.00	90.00	359.68	11,355.00	11,431.50	284.89	486,510.19	707,736.41	32.336338	-103.794570
22,700.00	90.00	359.68	11,355.00	11,531.50	284.32	486,610.19	707,735.84	32.336613	-103.794570
22,800.00	90.00	359.68	11,355.00	11,631.50	283.76	486,710.18	707,735.27	32.336888	-103.794570
22,900.00	90.00	359.68	11,355.00	11,731.50	283.19	486,810.18	707,734.71	32.337162	-103.794570
23,000.00	90.00	359.68	11,355.00	11,831.49	282.62	486,910.18	707,734.14	32.337437	-103.794570
23,100.00	90.00	359.68	11,355.00	11,931.49	282.06	487,010.18	707,733.57	32.337712	-103.794571
23,200.00	90.00	359.68	11,355.00	12,031.49	281.49	487,110.18	707,733.00	32.337987	-103.794571
23,300.00	90.00	359.68	11,355.00	12,131.49	280.92	487,210.18	707,732.44	32.338262	-103.794571
23,400.00	90.00	359.68	11,355.00	12,231.49	280.36	487,310.17	707,731.87	32.338537	-103.794571
23,500.00	90.00	359.68	11,355.00	12,331.49	279.79	487,410.17	707,731.30	32.338812	-103.794572
23,600.00	90.00	359.68	11,355.00	12,431.48	279.22	487,510.17	707,730.74	32.339087	-103.794572
23,700.00	90.00	359.68	11,355.00	12,531.48	278.65	487,610.17	707,730.17	32.339361	-103.794572
23,800.00	90.00	359.68	11,355.00	12,631.48	278.09	487,710.17	707,729.60	32.339636	-103.794572
23,900.00	90.00	359.68	11,355.00	12,731.48	277.52	487,810.16	707,729.04	32.339911	-103.794572
24,000.00	90.00	359.68	11,355.00	12,831.48	276.95	487,910.16	707,728.47	32.340186	-103.794573
24,100.00	90.00	359.68	11,355.00	12,931.48	276.39	488,010.16	707,727.90	32.340461	-103.794573
24,106.00	90.00	359.68	11,355.00	12,937.48	276.35	488,016.16	707,727.87	32.340477	-103.794573
LTP @ 2	4106' MD, 100	' FNL, 990' FI	EL						
24,185.62	90.00	359.68	11,355.00	13,017.09	275.90	488,095.78	707,727.42	32.340696	-103.794573
PBHL; 2	0' FNL, 990' F	EL							
24,185.63	90.00	359.68	11,355.00	13,017.11	275.90	488,095.79	707,727.42	32.340696	-103.794573

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 o - Point	0.00 center by 1135	0.00 5.00ft at 241	0.00 85.63ft MD	13,017.11 (11355.00 TV	275.90 D, 13017.11 N	488,095.79 J, 275.90 E)	707,727.42	32.340696	-103.794573

Database: Company: Project: Site: Well:	EDM r5000.141_Prod US WCDSC Permian NM Eddy County (NAD 83 NM Eastern) Sec 17-T23S-R31E Fiji 17-5 Fed Com 624H	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:	Well Fiji 17-5 Fed Com 624H RKB @ 3366.40ft RKB @ 3366.40ft Grid Minimum Curvature
Wellbore: Design:	Wellbore #1 Permit Plan 1	Survey Calculation Method:	
Plan Annotations			

Measured Vertical		Local Coor	dinates	
Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
10,791.27	10,782.04	-50.00	350.00	KOP & FTP @ 10791' MD, 2530' FNL, 990' FEL
13,648.00	11,355.00	2,479.64	335.66	Cross section @ 13648' MD, 0' FSL, 990' FEL
18,936.00	11,355.00	7,767.56	305.67	Cross section @ 18936' MD, 0' FSL, 990' FEL
24,106.00	11,355.00	12,937.48	276.35	LTP @ 24106' MD, 100' FNL, 990' FEL
24,185.62	11,355.00	13,017.09	275.90	PBHL; 20' FNL, 990' FEL



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

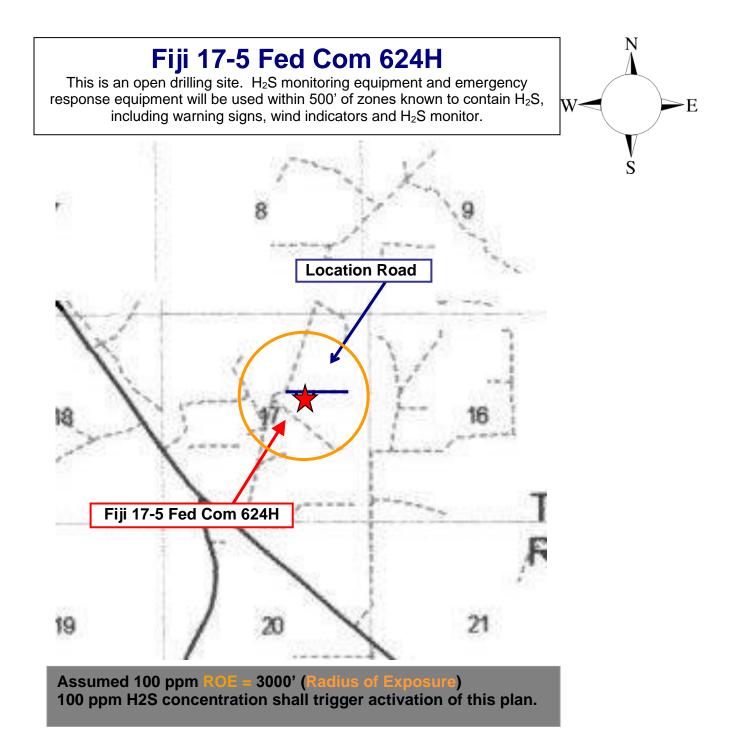
Hydrogen Sulfide (H₂S) Contingency Plan

For

Fiji 17-5 Fed Com 624H

Sec-17 T-23S R-31E 2480' FNL & 1340' FEL LAT. = 32.3049195' N (NAD83) LONG = 103.7956775' 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 H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of 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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

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	60	2.21	2		1000 mm
Dioxide	SO2	Air = 1	2 ppm	N/A	1000 ppm

Characteristics of H₂S and SO₂

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable 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. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
 Possum Belly/Shale shaker
- Rig floor
 Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

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

7. Well testing:

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

Devon Energy Corp. Company Call List

Drilling Supervisor – Basin – Mark Kramer

405-823-4796

EHS Professional – Laura Wright

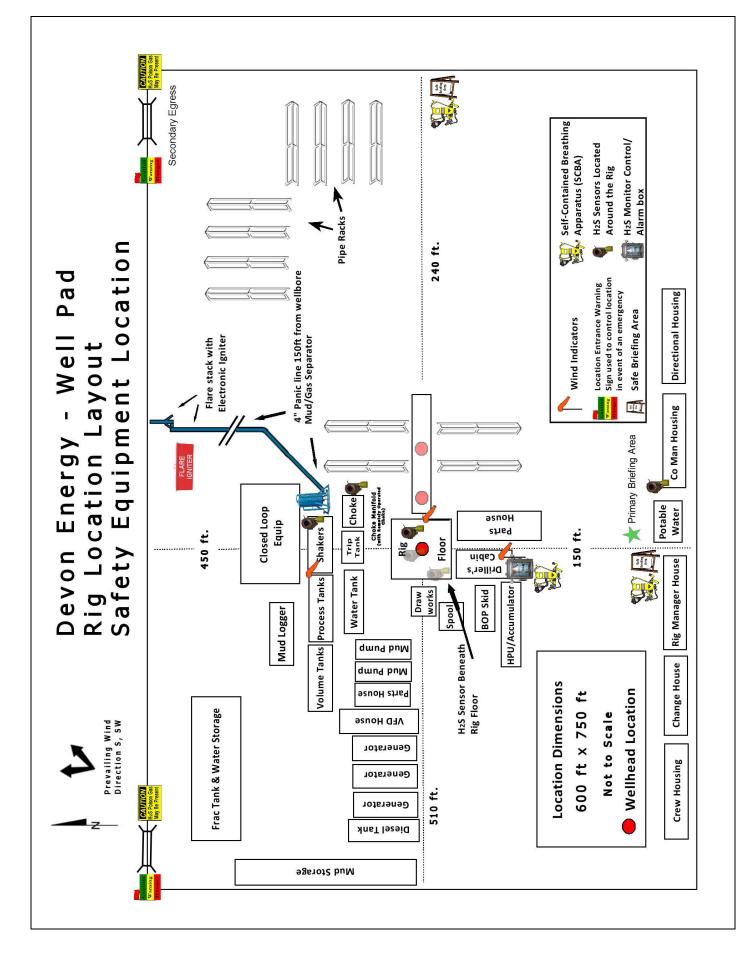
405-439-8129

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		
LEASE NO.:	NMNM045235		
LOCATION:	Section 17, T.23 S., R.31 E., NMPM		
COUNTY:	Eddy County, New Mexico		
WELL NAME & NO.:	Fiji 17-5 Fed Com 333H		
SURFACE HOLE FOOTAGE:	2330'/N & 1610'/E		
BOTTOM HOLE FOOTAGE	20'/N & 1650'/E		
WELL NAME & NO.:	Fiji 17-5 Fed Com 334H		
SURFACE HOLE FOOTAGE:	2480'/N & 1280'/E		
BOTTOM HOLE FOOTAGE	20'/N & 330'/E		
WELL NAME & NO.:	Fiji 17-5 Fed Com 623H		
SURFACE HOLE FOOTAGE:	2330'/N & 1670'/E		
BOTTOM HOLE FOOTAGE	20'/N & 2310'/E		
WELL NAME & NO.:	Fiji 17-5 Fed Com 624H		
SURFACE HOLE FOOTAGE:	2480'/N & 1340'/E		
BOTTOM HOLE FOOTAGE	20'/N & 990'/E		
WELL NAME & NO.:	Fiji 17-5 Fed Com 713H		
SURFACE HOLE FOOTAGE:	2330'/N & 1640'/E		
BOTTOM HOLE FOOTAGE	20'/N & 1750'/E		
WELL NAME & NO.:	Fiji 17-5 Fed Com 714H		
SURFACE HOLE FOOTAGE:	2480'/N & 1310'/E		
BOTTOM HOLE FOOTAGE	20'/N & 430'/E		
	СОА		

H2S	🖸 Yes	C No	
Potash	None None	Secretary	C R-111-P
Cave/Karst Potential	C Low	C Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	C None	E Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	C Both
Other	□4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	Cement Squeeze	Pilot Hole
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.

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

- 2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement might be required.
 - In <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 8-5/8" annulus. <u>Operator must run</u> a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <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

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- 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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