Form 3160-5 (August 2007) B	UNITED STATES	S NTERIOR GEMENT	OCD Hobb	HORBS	FORM A OMB NO Expires: J	PPROVED 1004-0135 uly 31, 2010	
SUNDRY	NOTICES AND REPO	RTS ON WELL	S		L5. Lease Serial No. NMLC062391		
Do not use th abandoned we	is form for proposals to II. Use form 3160-3 (AP	drill or to re-ent D) for such prop	ər an Jl osals.	UN 1 3 20	3 6. If Indian, Allottee or	Tribe Name	
SUBMIT IN TR	IPLICATE - Other instruc	ctions on reverse	side.		7. If Unit or CA/Agreen	nent, Name and/or	No.
1. Type of Well □ Oil Well ⊠ Gas Well □ Ot	her				8. Well Name and No. KACHINA 5 FEDE	RAL 3	7
2. Name of Operator DEVON ENERGY PRODUCT	Contact: FION CO. E. Mail: ERIN.WO	ERIN L WORKM	AN SBI	ふう	9. API Well No. 30-025-31517	/	
3a. Address 333 WEST SHERIDAN AVEN OKC, OK 73102	IUE	3b. Phone No. (inc Ph: 405-552-79	lude area code 970	e)	10. Field and Pool, or E CORBIN, WOLF	CAMP, SOUTH	15
4. Location of Well <i>(Footage, Sec., 1)</i> Sec 5 T18S R33E 1980FSL <i>Unit K</i>	T. R. M. or Survey Pescription 1980FWL)			11. Couny or Parish, a	nd State	
12. CHECK APP	ROPRIATE BOX(ES) TO	D INDICATE NA	TURE OF	NOTICE, R	EPORT, OR OTHER	DATA	
TYPE OF SUBMISSION			ТҮРЕ С	OF ACTION			
Notice of Intent	 Acidize Alter Casing Casing Repair 	DeepenFractureNew Cor	Treat	Product Reclam Recom	tion (Start/Resume) ation	Water Shut-(Well Integrit	Эff У
Final Abandonment Notice	Change Plans	Plug and Plug Bac	lew Construction ☑ Recomplete lug and Abandon □ Temporarily / 'lug Back □ Water Dispos		rarily Abandon Disposal	Other	
Attach the Bond under which the wo following completion of the involve testing has been completed. Final A determined that the site is ready for Devon Energy Production Co perfs & recomplete to the Bor	any of recomplete nonzontally, rk will be performed or provide d operations. If the operation re bandonment Notices shall be fil final inspection.) mpany, LP respectfully re- be Spring with the followin	the Bond No. on file sults in a multiple con ed only after all requin quests requests to g procedure:	with BLM/BI apletion or rec rements, inclu	A. Required su completion in a iding reclamatio	entical depuis of all perture bsequent reports shall be f new interval, a Form 3160 n, have been completed, an camp	nt markers and zon- iled within 30 days 4 shall be filed onc nd the operator has	эs. :e
 MIRU PU. POOH w/ rods & BHA. RIH w/ CIBP & set @ ~960 9500'(Top of Leonard). PUH & Rev.circ tbg clean. RU WL. Perf as follows: 2r Lime; 9320'-9330'@ 3 spf, TC 	k pmp. ND WH. NU 5K B 0'. PT 500psi. PUH & spo PT csg. 2500psi. nd Bone Spring; 9071'-909 DTAL 68 shots.	OP & Tst. Unset 1 100' Class H cm 200' @ 2 spf, 3rd B store Bill w/ tha	AC & POC It plug to one	DH w/	SUBJECT TO APPROVAL	D LIKE BY STATE	i F
tst.8400psi.		sters. Kirr w/ tbg.	×	SEI CO	ATTACHED I	-OR <u>APPROVA</u>	L
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission # For DEVON ENER	199754 verified by GY PRODUCTION	the BLM We CO.,LP, se	ell Information nt to the Hobl	n System		
Name (Printed/Typed) ERINLW	ORKMAN	Titl	e REGU	LATORY CO	MPLIANCE ASSOC.		
Signature (Electronic Submission) Date 02/22/2013 APPROVED							
					SE		<u></u>
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condu	d. Approval of this notice does uitable title to those rights in the act operations thereon.	not warrant or subject lease Of	le	BUR	JUN 1 1 2013	Date ENT	
Title 18 U.S.C. Section 1001 and Title 13 States any false, fictivous or fraudurent	U.S.C. Section 1212 make it a statements or epiceentations as	crime for any person to any matter within	knowingly an its jurisdictior	id willfully to in n.	ake to any department or a	gency of the United	
** OPERA	FOR-SUBMITTED ** O	PERATOR-SUE	BMITTED	** OPERAT	OR-SUBMITTED *	*	
				JL	JL 0 8 2013		

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Additional data for EC transaction #199754 that would not fit on the form

32. Additional remarks, continued

6. Set RBP @9400'. PT 1000psi. Set pkr @ ~9250 & tst. on backside 7. MIRU acidize perfs. Set pkr & tst 500psi. on backside. Spearhead w/ 3000g 15% HCL; dropping BS.

8. RIH & latch onto RBP. PUH & set @ 9200'. Tst. 1000psi. PUH & set pkr @

~9000'. Tst to backside 1000psi.

 Acidize second set of perfs w/ 2500g 15% HCL & dropping ball sealers. RDMO.
 RIs pkr. Latch onto RBP & Set RBP & pkr at original depth. Test, MIRU & Swab.

- Swap.
 11. RU & frac 2nd Bone Spring Lower perfs.
 12. FWB. RIH & latch onto RBP. POOH w/ pkr & RBP.
 13. RU WL. Perf as follows: 8802'- 8820' @ 2 spf: TOTAL 36 shots.
 14. RD WL. Set RBP @ 9000'. Tst 1000psi. PUH & set pkr @ ~8740'.
 15. RU acid crew. Acidize w/ 2500g 15% HCL w/ BS. RD acid crew. Reset pkr & wubb. swab.

16. If OC is favorable RU & frac 2nd Bone Spring Upper perfs.
17. FWB. RIH & circ sand off RBP. POOH w/ pkr & RBP.
18. RIH w/ sd screen, SN & tbg. Set @ ~9200' & TAC ~8700'.
19. RIH w/ rods & pmp. Load & tst pump. RDMO PU.

Attachments: Procedure, Rod design, & Wellbore Schematic

Thank you!



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DEVON	ENERGY PR	ODUCTION COM	PANY LP	
Well Name: KACHINA 5 FEDERAL 3		Field: SOUTH C	ORBIN	
Location: 1980' FSL & 1980' FWL; SEC 5, T185	. R 33E	County: LEA	State: NM	
Elevation: 3972*GL		Spud Date: 1/31	/92 Compl Date: 4/26/9	72
AP#: 30-025-31517 Prepared by: Ronrie So	ck APAT 1	Date: 11/7/08	Rev: 2/19/13	
17-182″ bole <u>13-3/8″,48≇,H40,STC,⊚478′</u> Contolw/509 sxto surface				,
12-1/4 [°] bole <u>8-58°, 32#, STC, @31007</u> Cm/d w/1653.sx				
			TOC @ 7630	
WOLFCAMP (6/26/12) 9623"-9757 (49 holes) addited arty, resited in 100% water production WOLFCAMP (9/26/08) 10736-10740; 10744'-10746'; 10761'-10771' WOLFCAMP (9/26/08) 11020-11050'; 11066'-11074'; 11104'-11122' 9305563332501050:1122 w2600get: 66 nd, Kr.gelget 158 WOLFCAMP (4/92) 11,220'-11,263'		CIBP 30 [°] ce	@10,676 ment. 10,641 PBD	
<u>WOLFCAMP</u> (4/92) 11,354*- 11,384* 7* Hole		30' CIE	cement, 11,310 [°] PBD P @ 11,346 [°]	
<u>5-1/2°, 17#, 1886, LTC, @11,500°</u> Cm(dw/800sx	2 0:255 11,	500° TO		

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Kachina 5 Fed #3 WBS#

Objective - Abandon existing Wolfcamp perfs & Recomplete to the Bone Spring in order to get this well off Devon's inactive list.

API# - 30-025-31517	Location - Lea Co Sec 5-18S-33E
GL - 3972	KB - 3988 (16')
TD - 11,500	PBTD - 11,417

Casing	OD	WT/FT	Grade	Тор	Bottom	тос	80% Collapse (psi)	80% Burst (psi)
Surface	13-3/8	48	H-40	0	478	Surface		
Intermediate	8-5/8	32	K55	0	3100	Surface		
Production	5-1/2	17#	N-80	0	11,500	7630	5024	6192
Production								· · · · · · · · · · · · · · · · · · ·
Tubing	2-7/8	6.5	N-80	0	11,276		8928	8456

Current perforations: 10,736-11,263 (Wolfcamp-232 total perfs) & 9623 - 9757 (Wolfcamp-49 total perfs from previous recomplete-acidized only).

Current BHA: 303jts tubing, TAC @ 9,455, 9jts tubing, SN, Perf Sub, 1jt tbg, BP Rods: PR, 3 Pony rods (20ft),180 FG rods, 107 7/8 rods, 10 1-1/2 K Bars, shear tool, 1-1/2 pump, 6ft gas anchor.

Procedure

- 1) Test anchors. MIRU PU. POOH with pump & rods. Lay down K-bars & sent to yard for retirement.
- 2) ND WH. NU 5K Manual BOP with 3K studs. Test BOP to Devon guidelines. Unset TAC and POOH w/ BHA- Tally pipe OOH. **Note fluid level while coming out of hole.**
- 3) RIH w/ CIBP on tubing making sure to slow down before fluid level. RIH & set CIBP at ~9600'. Drop ball and set plug. Pressure test CIBP to 500 psi. PUH & spot 100ft Class H cement plug to 9500ft (Top of Leonard). [(100x0.1305)/(1.18)] = 11sxs round to 15 press. 25
- 4) PUH & reverse circulate tubing clean. SDFN. Tag cement top the following morning. POOH. Pressure test casing to 2,500psi
- 5) RU WL. Perforate 3rd Bone Lime & 2nd BS Lower Sand as follows:

Formation	Perf Interval (ft)	Feet	Density (spf)	Phasing (°)	Charge (in)	# of Holes
2nd Bone Ss Lower	9071 - 9090	19	2	60	0.42	38
3rd/Bone/Lime	9320/9330/	10	-3	120	0:42	30



- 6) RD WL. PU/MU 5-1/2 10K packer with RBP & ball catcher. RU hydro testers. RIH with tandem tools testing tubing to 8,400psi bellow slips.
- 7) Set RBP at 9400ft. Pressure test to 1000psi. Set Packer at ~9250 & attempt to test backside.
- 8) RU acidizing company. Spot acid across 3rd Bone Lime Perfs. Set packer and test backside.
- 9) Apply 500 psi on backside. Spearhead in with 3,000 gals 15% HCL dropping ball sealers. Shut in for 30 minutes.
- 10)Bleed back well and flow down. Knock off lines. RIH & latch onto RBP. PUH & set RBP at 9,200². Test to 1000psi. PUH & set packer at ~9,000ft. Test backside to 1000psi. Hook up & re-test lines on acid crew.
- 11) Acidize Lower 2nd Bone Spring sand with 2,500gal 15% HCL & ball sealers. RDMO acid crew.
- 12) Release packer & latch onto RBP. Set RBP & packer at original depth & test 3rd Bone Lime. Begin swab testing noting % oil cut. ***Zone appears tight on logs, but we're testing based on Kachina 5-2 recompletion success. All signs point to not fracing this interval.**
- 13) After testing is complete, PUH & begin swab testing Lower 2nd Bone Spring Ss. Swab tubing dry & begin making hourly swab runs noting % oil cut/fluid entry per hour.
- 14) If oil cut is favorable prep to frac. RU frac crew, frac Lower 2nd Bone Spring with 40,000#s of 20/40.

15)Flow back well at 30 bbl/hr for the 1st 3 hours. Open well up to 60 bbl/hr until well dies.

- 16) RIH & latch onto RBP. POOH with packer & RBP.
- 17) RU WL. Perforate Upper 2" Bone 3s pens as follows:

Formation	Perf Interval (ft)	Feet	Density (spf)	Phasing (°)	Charge (in)	# of Holes
2nd Bane St. Uppen	8802 8820	18.00	1112 - 11	60 *	0.42	36

- 18) RD WL. RIH w/ tandem tools. Set RBP at 9,000ft. Test RBP to 1000psi. PUH & set packer at ~8,740'.
- 19) RU acid crew. Acidize upper 2nd Bone Spring with 2500 gal 15% HCL with ball sealers. RD acid crew. Knock balls off perfs & reset packer & begin swab testing as above. Frac depending on swab test.
- 20) If oil cut is favorable prep to frac. RU frac crew, frac Upper 2nd Bone Spring with 40,000#s of 20/40.
- 21)Flow back well at 30 bbl/hr for the 1st 3 hours. Open well up to 60 bbl/hr until well dies.
- 22) RIH & latch onto circulate sand off RBP. POOH with packer & RBP.
- 23) RIH w/ 28ft sand screen, SN and tubing. Set SN at ~9,200' & TAC ~8,700'.
- 24) RIH w/ new rods & pump- lay down FG rods if successful fracs. See Rodstar report for rod design. RIH with 1-3/4" x 26' pump & Stanley Filter. Load & test pump. RDMO PU. Begin flow testing to get well off inactive list.

RODSTAR-V 3.4.0

(c) Theta Oilfield Services, Inc. (www.gotheta.com) Page 2 of 4

Company: Devon Energy Well: Kachina 5-3 Disk file: KACHINA 5-3.rsvx Comment:

devon

User: BAE Date: 2/19/2013

	。《為本語分類 NPU	TOATA	57-7 8 -21	1226333	CALCULATED	RESULTS TOTA	L SCORE: 95% G	rade; A)
Strokes per n Run time (hm Tubing pres. Casing pres. Huid propert	nisute: 8 s/day): 24.0 (psi): 50 (psi): 50	Fluid level (ft from surface): (ft over pump): Staf.box fr. (lbs): Pol. Rod Diam: 1.5" Motor & power mete	9000 200 100 ar 200	Production Oil product Strokes per System eff Permissibi Fluid load Polished m	rate (b(pd)); tion (BOPD); r minute; . (Motor->Pump); e load HP; on pump (lbs); od HP;	292 113 6 41% 83.9 8705 29.8	Peak pol. rod loa Min. pol. rod loa MPRUPPRL Unit struct. loadin PRHP / PUHP Buoyant rod wek N/No: _288 , F	d (lbs): 33985 i (lbs): 12159 0.358 ng: 93% 0.35 sht (lbs): 18877 o/SKr: .361
Water out: Water sp. gra Oil API gravit Fluid sp. grav	63% avity: 1 iy: 42.8 /ity: 0.9262	Power Meter Detext Elect: cost: \$.06/K Type: NEMA	WH D	Required ((speed v. NEMA D n Single/dou Multicylind	anime mover size ar. not included) hotor: ble cyl. engine: er engine:	8ALA (Min 75 60 75	NCED BALANCI Enei) (Min Tor HP 75 HP HP 50 HP HP 75 HP	20 q)
Pumping Uni	it: Lutkin Convention	al - New (C-912D-36*	<u> Marine Kasa</u>	Torque an electricit	alysis and	BALA	NCED BALANCI	≝O 9)
API size: C-C Grank hole in Calculated is Grank Rotati Max, CB moi Structural un Grank offset	112-365-168 (unit ID umber troke length (in); on with well to right: ment (M in-Ibs); belance (Ibs); angle (deg); ump information	: CL5) #2 (ost of 4) 146.9 CCW Unknown -1500 0.0		Peak g'bo Gearbox in Cyclic Ioan Max. CB n Counterba Daily elect Monthly el Electr.cos	k long (M in-Ibs): bading: factor: soment (M in-Ibs) bane effect (Ibs) r.use (KWH/day) ectric bill: per bbl. fuid: t per bbl. fuid:	866 94.9 1.7 2344 2344 2344 2345 2345 2345 2345 2345	761 % 83.4% 1.7 1.93 1857.26 33 24977 756 37 \$1383 59 \$0.161 98 \$0.402	\$
Tubing O.D.	(ins). 2.875 i	Jpstr. rod-tbg fr. coeff.	0.500	Tubing pu	inspland plunger	alculations		
Pump depth Pump conditi Pump type: Plunger size	(ft): 9200 T ion: Fall F Tabing F (ins) 1.75 F	ub.anch.depth (ft); /ump load adj. (lbs); /ump vol. efficiency ; /ump friction (lbs);	8700 0.0 85% 200.0	Prod. loss Gross pun Pump spa Minimum j Recomme	ech (ins): due to tubing str ip stroke (ins): cing (in, frem bot cump length (ft): nded plunger ien	etch (bfpd): 2.3 117 tom): 27, 23, gth (ft): 6.0	7.0 6 0	
Rod string de	sign (rod tapers cal	culated)		Rod string	stress enalysis (service factor: 0.	9)	
Diameter (inches)	Rođ Grade	Length Min. Ter (fi) Strength	vsile ((psi);	Stress Load %	Top Maximum Stress (osi)	Top Minimum Stress (psi)	Bot. Minimum Stress (psi)	Stress Calc. Method
+ 1 0.875 0.75 + 1	Norris 96 Norris 96 Norris 96 D (API)	2625 14000 2950 14000 2625 14000 1000 11500	0 0 0 0	80% 80% 80% 59%	43269 41642 39389 15990	15771 12144 7078 926	9656 5806 1646 -255	APIMG 1/2.8 APIMG 1/2.8 APIMG 1/2.8 APIMG 1/2.8 APIMG

+ Requires similate couplings.

NOTE Stress calculations to not include buoyancy effects.





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Kachina 5 Federal 3 30-025-31517 Devon Energy Production Co., LP June 11, 2013 Conditions of Approval

Notify BLM at 575-393-3612 a minimum of 24 hours prior to commencing work.

Work to be completed by September 11, 2013.

- 1. Operator shall place CIBP at 9600' and place a 200' class H cement plug on top. Tag required.
- 2. Must conduct a casing integrity test to maximum treating pressure before any work can be done. Submit results to BLM.
- **3.** Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 4. Surface disturbance beyond the originally approved pad must have prior approval.
- 5. Closed loop system required.
- 6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.
- 7. Operator to have H2S monitoring equipment on location.
- 8. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

9. Subsequent sundry required detailing work done and completion report with the new formation. The completion report shall include production from each formation. Operator to include well bore schematic of current well condition when work is complete.

JAM 061113

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