	UNITED STATES EPARTMENT OF THE IN UREAU OF LAND MANAC	TERIOR			OMB NO Expires: Jan	PPROVED . 1004-0137 uary 31, 2018	
SUNDRY	NOTICES AND REPOR	RTS ON WELLES	ad l	Field Off	erial No.		
abandoned we	is form for proposals to o II. Use form 3160-3 (APD)) for such proposal	CD	Hob	an, Allottee or	Tribe Name	
SUBMIT IN	TRIPLICATE - Other instr	ructions on page	800		the second s	nent, Name and/or No.	
 Type of Well Oil Well Gas Well Oth 	ner /	0	CT 20	ARAB	ame and No. IAN 30-19 FE	ED COM 4H	
2. Name of Operator DEVON ENERGY PRODUCT	Contact: L	INDA GOOD	ECE	9. API W 30-02	ell No. 25-43788		
3a. Address 333 WEST SHERIDAN AVE. OKLAHOMA CITY, OK 73102	2	3b. Phone No. (include ar Ph: 405-552-6558	rea code)			xploratory Area 53235G;LWR BS	
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. Coun	ty or Parish, S	tate	
Sec 30 T25S R32E Mer NMP	SENE 2450FNL 1295FEL			LEA	COUNTY, N	IM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NATU	JRE OF	NOTICE, REPORT	, OR OTH	ER DATA	
TYPE OF SUBMISSION		T	YPE OF A	ACTION			
🛛 Notice of Intent	□ Acidize	Deepen		Production (Start/	Resume)	□ Water Shut-Off	
	□ Alter Casing	🗖 Hydraulic Frac	cturing	Reclamation		U Well Integrity	
Subsequent Report	Casing Repair	New Construct		□ Recomplete		🛛 Other	
Final Abandonment Notice	 Change Plans Convert to Injection 	Plug and Aban Plug Back		 Temporarily Aban Water Disposal 			
injection down the 5-1/2 [°] rx9-5/ 500 psi. Indicating that we w annulus to remediate the low request to remediated the TO remediate the TOC with a bra The UltraView log is too large	ill be able to perform a bra TOC. The frac date is sch C following the frac job. Pl denhead squeeze.	denhead squeeze dov eduled for 10/12/17 so ease find the attached SEE	vn the 5- o we wou procedu	1/2"x9-5/8" Id like to CHED FOR	ROVA	L	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #3	91115 verified by the B	LM Well I	nformation System			
Name(Printed/Typed) LINDA GC	For DEVON ENERG Committed to AFMSS for	Y PRODUCTION COMP processing by MUSTA	AN, sent	to the Hobbs	-		
Signature (Electronic S	Submission)	Date 1	0/06/201	APPROVI	ED		
	THIS SPACE FO	R FEDERAL OR S	TATE O	FFICE USE			
Approved By Mustafa 1	tagiue	Title	PETR	OLEUM ENGINE	17 ER	Date 10-12-201	
Conditions of approval, if any, are attache sertify that the applicant holds legal or equivient would entitle the applicant to condu	itable title to those rights in the	not warrant or subject lease Office	CH	EAU OF LAND MAN	AGEMENT		
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent a			ngly and w	A REAL PROPERTY AND A REAL	NAME AND ADDRESS OF TAXABLE PARTY.	agency of the United	
(Instructions on page 2) ** OPERAT	OR-SUBMITTED ** OF	PERATOR-SUBMIT	TED **	OPERATOR-SUE	BMITTED '	**	
	MAR	IND					
	y way	10/23/201	7				



Arabian 30-19 Fed Com 4H – Bradenhead Squeeze Procedure

API: 3002543788 WBS: XX-112612.01.CMP SHL: Sec 30 of 25S-32E – 2485' FNL & 1317' FEL Lea County, NM

Objective:

7

- 1. The Arabian 30-19 Fed Com 4H was drilled within the 2nd Bone Spring Sand and cased off with a 5-1/2" production casing string.
- 2. Attempt to establish injection rate down the 5-1/2"x9-5/8" annulus.
- 3. Perform bradenhead squeeze down the 5-1/2"x9-5/8" annulus to remediate top of cement on the production string. Bring TOC from 5150' to 3300'.
- 4. Run CBL to verify new TOC. Send CBL to BLM

GL - 3,361.1'	KB - 3,386.1' (25')
TD - 17,635'	PBTD - 17,547' (FC)
KOP - 9,721'	

Casing	OD	WT/FT	Grade	Top (ftKB)	Bottom (ftKB)	80% Collapse (psi)	80% Burst (psi)
Surface	13-3/8"	54.5#	J-55	25'	1,048'		
Intermediate	9-5/8"	40#	J-55	25'	4,330'		
Production	5-1/2"	17#	P-110RY	25'	17,635'	5,968	8,512

Capacity:

5-1/2 17# Casing – (0.0232 bbl/ft)

5-1/2 17# Casing X 2-3/8" Tubing - (0.0178 bbl/ft)

5-1/2 17# Casing X 2-7/8" Tubing - (0.0152 bbl/ft)

Offset Wells: 1 offsets in same of near formation. See Frac Bash guideline.

Operator	Well	S-T-R	Surf Loc	Distance	Frac Stg	Current Well Status

-			
	-		

EHS:

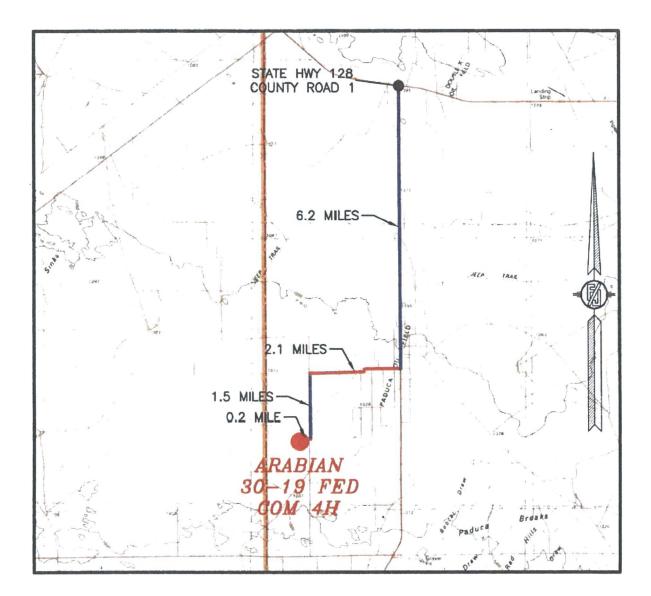
- All personnel will wear hard hats, safety glasses (side shields), FRC, and steel-toed boots while on location and follow all company policies
- Hold PJSM with all vendors on location discussing matters of safety, job procedure, and procedure execution contingencies. For any scope change or shift change, safety meetings need to be held with all personnel on location. Ensure safety shower is set on location and appropriate containments are set prior to start of frac.

Directions:

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HWY 128 & ORLA HWY (COUNTY ROAD 1) GO SOUTH ON ORLA HWY APPROX. 6.2 MILES TO MONSANTO ROAD, TURN RIGHT (WEST) ON MONSANTO ROAD GO APPROX 2.1 MILES TO A "T" INTERSECTION, TURN LEFT (SOUTH) ON LEASE ROAD GO APPROX 1.5 MILES TO A CALICHE ROAD ON RIGHT (WEST), TURN RIGHT (WEST) GO APPROX 0.2 MILE TO LOCATION ON LEFT (SOUTH) SIDE OF ROAD.

> Nick Ashley, Completions Engineer 405-552-4641 [office] 405-465-2076 [cell] Nick.Ashley@dvn.com



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Devon Contacts						
Devon Contacts	Contact	Office	Office Phone	Cell Phone	E-mail Address	
CMP Engineer	Nick Ashley	OKC	405-552-4641	1(405)465-2076	Nick.Ashley@dvn.com	
Foreman CMP	Kelly Whitehead	Artesia	1(575)748-1834	1(575)513-4657	Kelly.Whitehead@dvn.com	
Foreman CMP	Danny Velo	Artesia	1(575)746-5572	1(575)703-3360	Danny.Velo@dvn.com	
Sand Coordinator	Mark Briney	OKC	(405)552-4504	(405)833-4771	Mark.Briney@dvn.com	
CMP Manager	Dan Wood	OKC	(405)288-8514	(405)974-0892	Dan.Wood@dvn.com	

Completion Notes:

- Previous Operations:
 - CBL already ran and TOC at 5150'.
 - Tied into 9-5/8"x 5-1/2" annulus and able to establish an injection rate of 3 bpm at 500 psi.
- Marker Joint Tops (len): 8,742.6' (21.24'); 9,565.2' (20.99') MD
- Flotation Collar @ 9,754 MD ~1 deg incl
 - Burst by drilling after floating casing, ID is same as casing (4.892")
 - Have had recent issues with running tools through flotation collar. Contact engineer and foreman before running any tools through this section.
- TAM PosiFrac Toe Sleeve @ 17,497' MD 4.25" ID
- All water pumped into the well must be treated with biocide and if fresh water is used it needs to be treated with 2% KCL substitute.

Nick Ashley, Completions Engineer 405-552-4641 [office] 405-465-2076 [cell] Nick.Ashley@dvn.com

PROCEDURE:

- 1. MIRU cement truck and associated equipment. Tie into 9-5/8"x5-1/2" annulus.
- Establish an injection rate. Verify injection rate of 5 bpm without exceeding 1500 psi. Monitor 5-1/2" casing pressure and the 13-3/8"x9-5/8" annulus pressure during injection. If able to establish an injection rate of 5 bpm without exceeding 1500 psi and no pressure communication was observed on the production and surface casing then proceed with the procedure.
- 3. Pump 20 BBL fresh water ahead.
- 4. Mix and pump 92 bbls of 12.9 lb/gal 35/65 Poz Class "C" w/ 6% bentonite .

NOTE: Ensure lab testing with slurry has been completed and results sent to engineer before at least 48 hrs before pumping and have a company rep contact the engineer to review lab testing. Verify thickening time meets job requirements.

- 5. Displace with 153 bbl of fresh water.
 A. New TOC should be +/- 3300'
 NOTE: Verify volumes with engineer before pumping
- 6. Monitor annulus pressure for 15 min. If well goes on vacuum call foreman and engineer.
- 7. Shut well in, RD from well and wait on cement for 48 hrs.
- MIRU wireline, crane, lubricator and pump. RIH with RCBL log and log from 6,000' to 500' above where TOC is seen with 1500 psi on the well. Confirm new TOC and let engineer know TOC.
- 9. RDMO wireline, crane, lubricator and pump. Secure Wellhead.
- 10. Have CBL and cement report sent to Nick Ashley (<u>Nick.Ashley(a)dvn.com</u>).

Nick Ashley, Completions Engineer 405-552-4641 [office] 405-465-2076 [cell] <u>Nick.Ashley@dvn.com</u> DEPARTMENT OF THE INTERIOR Mail - FW: Arabian 30-19 Fed Com 4H - Low TOC



Haque, Mustafa <mhaque@blm.gov>

FW: Arabian 30-19 Fed Com 4H - Low TOC

Ashley, Nick <Nick.Ashley@dvn.com> To: "mhaque@blm.gov" <mhaque@blm.gov> Cc: "Good, Linda" <Linda.Good@dvn.com> Tue, Oct 10, 2017 at 2:34 PM

In addition, during the frac job we will tie into the 5-1/2"x9-5/8" annulus, install a pressure transducer, and a pop-off set at 1500 psi. The pressure will be monitored and recorded at all times. Bradenhead squeeze will performed following the frac job to remediate the low TOC.

Thanks,

Nick Ashley

Devon Energy

From: Ashley, Nick Sent: Friday, October 06, 2017 9:11 AM To: Good, Linda <Linda.Good@dvn.com> Cc: Wood, Daniel <Daniel.Wood@dvn.com> Subject: Arabian 30-19 Fed Com 4H - Low TOC

Linda,

Upon review of the CBL, the TOC does not meet COA requirements. As per the COA the TOC needs to be 4130', UltraView Cement Evaluation Log shows the TOC to be 5150'. The intermediate shoe is at 4330'. After discovering the low TOC on the cement evaluation log we attempted to establish injection down the 5-1/2"x9-5/8" annulus. We were able to achieve an injection rate of 3 bpm and 500 psi. Indicating that we will be able to perform a bradenhead squeeze down the 5-1/2"x9-5/8" annulus to remediate the low TOC. The frac date is scheduled for 10/12 so we would like to request to remediated the TOC following the frac job. Attached is the UltraView Log and procedure to remediate the TOC with a bradenhead squeeze.

Linda, let me know if you need any additional information.

Nick Ashley