Form 3160-5 (June 2015) DE BU	UNITED STATES PARTMENT OF THE IN JREAU OF LAND MANA	S NTERIOR GEMENT	Carls	oad F	FORM OMB N Expires: Ja 5, rLease Serial No.	APPROVED D. 1004-0137 muary 31, 2018	
SUNDRY Do not use thi abandoned wei	NOTICES AND REPO is form for proposals to II. Use form 3160-3 (API	drill or to re- D) for such p	enter an O roposals.	CDA	of I Indian, Allottee d	Tribe Name	
SUBMIT IN 1	TRIPLICATE - Other inst	ructions on J	bage 2		7. If Unit or CA/Agreement, Name and/or No. NMNM135945		
1. Type of Well					8. Well Name and No. CYPRESS 33 FEDERAL 2H		
2. Name of Operator OXY USA INCORPORATED	Contact: E-Mail: david stew	DAVID STEW	/ART	···	9. API Well No. 30-015-37308-00-S1		
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON TX 77046-0521	110	3b. Phone No. Ph: 432.68	(include area code 5.5717)	10. Field and Pool or Exploratory Area CEDAR CANYON		
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)	· _		11. County or Parish,	State	
Sec 33 T23S R29E NENE 63	5FNL 765FEL				EDDY COUNT	Υ, NM	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE C	OF NOTICE,	REPORT, OR OTH	ÆR DATA	
TYPE OF SUBMISSION			ΤΥΡΕ Ο	F ACTION	_		
		Deep	ben	Product	ion (Start/Resume)	□ Water Shut-Off	
Notice of Intent	Alter Casing	🗖 Hyd	raulic Fracturing	🗖 Reclam	ation	U Well Integrity	
Subsequent Report	Casing Repair	🗖 New	Construction	🛛 Recomp	olete	Other	
Final Abandonment Notice	Change Plans	🗖 Plug	and Abandon	Tempor	arily Abandon		
	Convert to Injection	D Plug	Back		Disposal		
Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f Well Prep Procedure: 1. MIRU PU and rig equipme 2. Ensure well is dead 3. MU tubing equipment and	nt POOH w/2-7/8" tubing an	the Bond No. or sults in a multipl led only after all nd rod pump	file with BLM/BL e completion or rec requirements, inclu	A. Required su completion in a ding reclamatio	new interval, a Form 316 n, have been completed -29-18 cord - NMOCD	filed within 30 days 60-4 must be filed once and the operator has	
 RIH with cleanout BHA RU power swivel if needed 	I and cleanout to PBTD				NM OIL	CONSEDVATION	
 POOH with cleanout BHA RIH with work string to top 	and work string of KOP and set RBP. Te	st casing to 6	200# or max tre	ating pressu	ARTESIA DISTRICT		
whichever is lower.	to latch on RBP, release	RBP & POOI	HIDw/RBP	01	JUN 29 2018		
9. Perform drift run with Moha	awk BHA		motoly				
10. RIH W/ 4.25° 13.1# P110	RZM expandable liner & s		nately		R	ECEIVED	
14. I hereby certify that the foregoing in	s true and correct. Electronic Submission # For OXY US/ mmitted to AFMSS for proc	424668 verifie A INCORPORA cessing by PRI	d by the BLM We TED, sent to the SCILLA PEREZ	ell Information e Carlsbad on 06/25/2018	n System (18PP2039SE)		
Name (Printed/Typed) DAVID S	Title REGU	LATORY AD	VISOR				
Signature (Electronic	Date 06/19/	2018					
	THIS SPACE F		L OR STATE	OFFICE U	SE		
Approved By /s/ Jonatho	on Shepard		Title Petr	oleum	Engineer	ANte 2 6 2018	
Conditions of approval, if any, are attached certify that the applicant holds legal or eq which would entitle the applicant to cond	Carlsbad Field Office						
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a statements or representations a	a crime for any post s to any matter w	rson knowingly an ithin its jurisdiction	d willfully to m n.	ake to any department o	r agency of the United	
(Instructions on page 2) ** BLM REV	ISED ** BLM REVISE	D ** BLM RI	EVISED ** BL	M REVISE	D ** BLM REVISE	:D **	

RW 7-5-18

Additional data for EC transaction #424668 that would not fit on the form

32. Additional remarks, continued

8070-11200'

11. Expand the liner using Mohawk procedures

Plug & Perf stimulation operation:

- Conduct pre-job safety meeting, discuss scope of work and hazard
 Check WH pressure & bleed off pressure if any to grounded flowback tank
 MIRU Cameron WH Company and equipment.

- Install 10M frac stack on wellhead
 MIRU frac and WL equipment
 RIH with WL and plug and perf for stage 1 with 4 clusters (8084-11176') per attached perf

design.

- 7. Spot 7.5% HCI acid and breakdown stage 1
- 8. Frac stage 1 per the pump schedule below
- 9. RIH with WL and plug & perf for stage 2 and frac afterwards
- 10. Repeat process for the remaining stages (estimated 16 total stages)
- 11. RDMO frac and WL company

Wellbore Clean out and Flowback Procedure:

- Hold Pre-job safety meeting, discuss scope of work and hazards
 Check WH pressure, bleed off pressure if any to grounded flowback tank
 MIRU 2-3/8" CT unit, PU 4.13" JZ bit, (Mohawk liner is 4.158" ID drift) RIH and DO plugs and CO to PBTD
- 4. Circulate hole clean and pump gel sweeps
- 5. RDMO CT unit and turn the well over to production
- 6. Open to Flowback
- 7. An artificial lift procedure will be provided once flowback operations completed.

Well Prep Procedure:

- 1. MIRU PU and rig equipment
- 2. Ensure well is dead
- 3. MU tubing equipment and POOH w/2-7/8" tubing and rod pump with HEEL system. Send to the yard for inspection
- 4. RIH with cleanout BHA
- 5. RU power swivel if needed and cleanout to PBTD
- 6. POOH with cleanout BHA and work string
- 7. RIH with work string to top of KOP and set RBP. Test casing to 6200 psi or max treating pressure, whichever is lower.
- 8. Bleed off pressure and RBIH to latch on RBP, release RBP and begin POOH. LD w/ RBP
- 9. Perform drift run with Mohawk BHA
- 10. RIH w/ 4.25" 13.1# P110 R2M expandable liner set @ approximately from 8070–11200'.
- 11. Expand the liner using Mohawk procedures

Plug & Perf stimulation operation

- 1. Conduct pre-job safety meeting discuss scope of work and hazard
- 2. Check wellhead pressure and bleed off pressure if any to grounded flowback tank
- 3. MIRU Cameron WH Company and equipment.
- 4. Install 10M frac stack on wellhead
- 5. MIRU frac and WL equipment
- 6. RIH with WL and plug and perf for stage 1 with 4 clusters (8084-11176'), per attached perf design.
- 7. Spot 7.5% HCI acid and breakdown stage 1
- 8. Frac stage 1 per the pump schedule below
- 9. RIH with WL and plug & perf for stage 2 and frac afterwards
- 10. Repeat process for the remaining stages (estimated 16 total stages)
- 11. RDMO frac and WL company

Wellbore Clean out and Flowback Procedure

- 1. Hold Pre-job safety meeting, discuss scope of work and hazards
- 2. Check well head pressure- bleed off pressure if any to grounded flowback tank
- 3. MIRU 2-3/8" CT unit, PU 4.13" JZ bit, (Mohawk liner is 4.158" ID drift) RIH and DO plugs and CO to PBTD
- 4. Circulate hole clean and pump gel sweeps
- 5. RDMO CT unit and turn the well over to production
- 6. Open to Flowback
- 7. An artificial lift procedure will be provided once flowback operations completed.

PLUGS AND PERFORATIONS INTERVALS						
		Cluster 1	Cluster 2	Cluster 3	Cluster 4	Plug
	Gun Length	2	2	2	2	
	Number of Shots	6	6	6	6	
Stage 1 Perfs: 6 shots loaded @ 60 degree phasing	Тор	11028	11077	11125	11174	11200
	Bottom	11030	11079	11127	11176	
Stage 2 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10832	10880	10929	10978	11004
	Bottom	10834	10882	10931	10980	
Stage 3 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10635	10684	10733	10782	10808
	Bottom	10637	10686	10735	10784	
Stage 4 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10439	10488	10537	10585	10611
	Bottom	10441	10490	10539	10587	
Stage 5 Perfs: 6 shots loaded @ 60 degree phasing	Top	10243	10292	10340	10389	10415
	Bottom	10245	10294	10342	10391	
Stage 6 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10047	10095	10144	10193	10219
	Bottom	10049	10097	10146	10195	
Stage 7 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9850	9899	9948	9997	10023
	Bottom	9852	9901	9950	9999	
Stage 8 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9654	9703	9752	9800	9826
	Bottom	9656	9705	9754	9802	
Stage 9 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9458	9507	9555	9604	9630
	Bottom	9460	9509	9557	9606	,
Stage 10 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9262	9310	9359	9408	9434
	Bottom	9264	9312	9361	9410	/
Stage 11 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9065	9114	9163	9212	9238
	Bottom	9067	9116	9165	9214	
Stage 12 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8869	8918	8967	9015	9041
	Bottom	8871	8920	8969	9017	
Stage 13 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8673	8722	8770	8819	8845
	Bottom	8675	8724	8772	8821	
Stage 14 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8477	8525	8574	8623	8649
	Bottom	8479	8527	/ 8576	8625	
Stage 15 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8280	8329	8378	8427	8453
	Bottom	8282	8331	8380	8429	, <u> </u>
Stage 16 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8084	8133	8182	. 8230	825€
	Bottom	8086	8135	8184 اذ	8232	:

Proposed Perforation & Plug Depth

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Proposed Pump schedule

Slick	water 2	(5,000 ft)		1	500 #/f	t_50 ft x 2	4 dusters	Slickwat	er_Reduced	Fluid	
			T	Fluid Information			T	Proppant Inf	ormation		
	Time		Rate	Clean	Dirty	Cum. Dirty		Prop. Cond		Stage Sand	Cum. Sand
	[mm]	Туре	[bpm]	[gab]	[gals]	[gais]	Description	[PPA]	Description	[lbs]	(lbs)
1	0 79	Aud	30	1000	1,000	1 200	7 5% HCI				
2	6 PS	Pad	97	15000	20,000	21,000	Shick Water				
3	9.61	Sard Laden	90	10000	11635	34,634	Slick Water	0.50	100 Mesh	5 000	5,000
4	13.84	Sand Ladon	90	12000	16,543	51 177	Slick Water	0.75	100 Mesh	9,000	14 000
5	19 14	Sand Laden	90	15000	20.904	72.051	Shek Water	1.00	100 Mesh	15 000	29,000
6	26.19	Sand Laden	90	20000	28,174	100 755	Shek Water	1 25	100 Mesh	25,000	54 000
7	36.42	Sund Laden	90	29000	41,290	141 545	Slick Water	1.50	100 Mesh	43.500	97,500
я	47.00	Sand Laden	90	30000	43.166	184 711	Shirk Water	1 75	100 Mesh	52 500	150,000
9	52.29	Sweep	90	15000	20,901	705,616	Sirk Water	1.00	AD TONIE (D)	15 000	165,000
10	57.58	Sand Laden	90	15000	21 131	226 746	Stick Water	1.25	-TOWNER BO-	18 750	183 750
11	64.64	Sand Laden	•0	20000	28,476	235 222	Sick Water	1.50	COMONDED	30 000	213,750
12	72.25	Sand Laden	90	23000	33,094	288,316	Shick Water	1 75	1070 Ch. Ba	40 758	254 000
13	80.86	Sant Laden	90	23000	33,441	321,757	SHER Water	2.00	-40/A/04040-00	46 (100	300,000
14	C.0C	Flush	90				Si Ek Water		(Flush to Top Per	1	300,000

MOHAWK ENERGY EXPANDABLE LINER SPECIFICATIONS 4.25 inch, 0.31 wall x 5.5 inch, 17 lb/ft FracPatch Specifications

Expandable Pipe Body							
Pre-Expa	nsion		Post Expansion				
OD	4.250	inches	OD	4.805	inches		
ID	3.630	inches	ID	4.218	inches		
Wall Thickness	0.310	inches	Wall Thickness	0.293	inches		
Weight	13.100	lb/ft	Drift	4.158	inches		
Drift	3.505	inches	Internal Yield	9,895	psi		
Seal Joint OD	4.490	inches	Collapse	5,600	psi		
Seal Thickness	0.120	inches	Expansion Ratio	16.207	%		

Expandable Connection						
Pre-Expansion			Post Expansion			
Connection OD	4.310	inches	Connection OD	4.865	inches	
Connection ID	3.600	inches	Connection ID	4.218	inches	
Drift	3.505	inches	Drift	4.158	inches	
Tensile Rating	142,286	lbs	Internal Yield	9,895	psi	
Compressive Rating	142,286	lbs	Collapse	5,600	psi	
Max DLS	36.01	*/100ft	Tensile Rating	154,125	lbs	
Optimum Torque	1,360	ft-lbs	Compressive Rating	138,713	lbs	
Max Torque	1,496	ft-lbs	Yield Torque	1.700	ft-lbs	

Mohawk Energy Setting Tool:

Appendix A1: Se	tting Tool	
Table 4 4 35 Series Test See	-	
Tool connection up	2-7/8" 7 9# DH-5 Box	*
Tool weight	900 lbs	
Tool length	40.0 1	
Expansion stroke	2.80 ft	
Max. dog-leg severity	25 º/100m	
Axial load rating	200,000 lbs	
Max. pressure	4,500 psi	
Max. temperature	400 °F	
Circulation flow rate	30 gpm	
Valve shut off flow rate	46 gpm	
Pressure/force conversion	44 lbs/psi	
Table 5. 3.50 Tool Running Par	anvelers	
	Pressure or Force	
load	500 lbs	
Max. slack off during	15,000 lbs	
deployment		
deployment	25.000 lbs	
Drive unit shear disk	1,750 psi	「「「「」「「」「「」「」「」「」「」「」「」「」「」「」「」「」「」「」「
Tool reset	3.000-5.000 lbs	
Safety burst disk relief	5,000 psi	
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OXY USA Inc - Proposed Cypress 33 Federal #2H API No. 30-015-37308



