Form 3160-5 (June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR AFISDAD FIELD
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLSOCD Artesia MNM19848

POLYMENT OF THE INTERIOR AFISDAD FIELD

SUNDRY NOTICES AND REPORTS ON WELLSOCD Artesia MNM19848

Do not use thi abandoned wel	6	6. If Indian, Allottee or Tribe Name					
SUBMIT IN 1	7	. If Unit or CA/Agreen NMNM135945	nent, Name and/or No				
Type of Well ☐ Gas Well ☐ Oth	er			8	Well Name and No. CYPRESS 33 FEDI	ERAL 4H	
Name of Operator OXY USA INCORPORATED	Contact: E-Mail: david_stew	VART	9	. API Well No. 30-015-37368-00	-S1		
3a. Address 5 GREENWAY PLAZA SUITE HOUSTON, TX 77046-0521	. (include area code) 5.5717	1	10. Field and Pool or Exploratory Area CEDAR CANYON				
4. Location of Well (Footage, Sec., T.	, R., M., or Survey Description,)	<u> </u>	1	1. County or Parish, St	ate	
Sec 33 T23S R29E SENE 149	90FNL 250FEL				EDDY COUNTY,	NM	
12. CHECK THE AF	PROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE, R	EPORT, OR OTHI	ER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent	☐ Acidize	☐ Dee	pen	☐ Production	n (Start/Resume)	☐ Water Shut-Off	f
	☐ Alter Casing	☐ Hyd	raulic Fracturing	□ Reclamati	on	■ Well Integrity	
☐ Subsequent Report	Casing Repair	□ New	Construction	Recomple Recomple	te	Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug	and Abandon	□ Temporari	ily Abandon		
	☐ Convert to Injection	Plug	Back	■ Water Dis	posal		
Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for fit. Well Prep Procedure: 1. MIRU PU and rig equipment 2. Ensure well is dead 3. MU tubing equipment and 4. RIH with cleanout BHA 5. RU power swivel if needed 6. POOH with cleanout BHA 7. RIH with work string to top whichever is lower. 8. Bleed off pressure and RB 9. Perform drift run with Moha 10. RIH w/ 4.25" 13.1# P110 F	operations. If the operation re- pandonment Notices must be fil inal inspection. POOH w/2-7/8" tubing an and cleanout to PBTD and work string of KOP and set RBP. Tel IH to latch on RBP, release wk BHA R2M expandable liner set	sults in a multipled only after all d rod pump st casing to 6. se RBP and b	e completion or reco requirements, includ 200# or max trea regin POOH. LD	mpletion in a neving reclamation, land	winterval, a Form 3160- have been completed an record - NIMOC NM OIL CO ARTESI	4 must be filed once d the operator has	N
14. I hereby certify that the foregoing is Com Name (Printed/Typed) DAVID ST	# Electronic Submission For OXY USA nmitted to AFMSS for proc	A INCORPORA	TED, sent to the SCILLA PEREZ or	Carlsbad	8PP2026SE)		
						<u>-</u>	
Signature (Electronic S			Date 06/18/2		<u> </u>		
	THIS SPACE FO				·	16.0.	_
Approved By Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to conductive the second to the	uitable title to those rights in the act operations thereon.	s not warrant or e subject lease			Engineer ield Office		<u>018</u>
States any false, fictitious or fraudulent	statements or representations as	to any matter w	ithin its jurisdiction.	minumy to make	county department of a	bene, or the office	

Additional data for EC transaction #424528 that would not fit on the form

32. Additional remarks, continued

7936-11200'

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 (7959-11177') per attached perf design.

7. Spot 7.5% HCl 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

Repeat process for the remaining stages (estimated 17 total stages)
 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.

OXY USA Inc. - Cypress 33 Federal 4H - 30-015-37368 - Cedar Canyon Bone Spring

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 7936–11200'.
- 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 (7959-11177') 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 17 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
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Proposed Perforation & Plug Depth

PLUGS AND PERFORATIONS INTERVALS	1					
		Cluster 1	Cluster 2	Cluster 3	Cluster 4	Plug
	Gun Length	2	2	2	2	
	Number of Shots	6				
Stage 1 Perfs: 6 shots loaded @ 60 degree phasing	Тор	11031	11079			11200
	Bottom	11033	11081	11129	11177	
Stage 2 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10839	10887	10935		11008
	Bottom	10841	10889	10937	10985	•
Stage 3 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10647	10695	10743	10791	10816
	Bottom	10649	10697	10745	10793	
Stage 4 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10455	10503	10551	10599	. 10624
	Bottom	10457	10505	10553	10601	
Stage 5 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10263	10311	10359	10407	10432
	Bottom	10265	10313	10361	10409	
Stage 6 Perfs: 6 shots loaded @ 60 degree phasing	Тор	10071	10119	10167	10215	10240
	Bottom	10073	10121	10169	10217	, , ,
Stage 7 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9879	9927	9975	10023	10048
	Bottom	9881	9929	9977	10025	
Stage 8 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9687	9735	9783	9831	9856
	Bottom	9689	9737	9785	9833	
Stage 9 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9495	9543	9591	9639	9664
	Bottom	9497	9545	9593	9641	
Stage 10 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9303	9351	9399	9447	9472
	Bottom	9305	9353	9401	9449	
Stage 11 Perfs: 6 shots loaded @ 60 degree phasing	Тор	9111	9159	9207	9255	9280
	Bottom	9113	9161	9209	9257	
Stage 12 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8919	8967	9015		
	Bottom	8921	8969	9017	9065	:
Stage 13 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8727	8775	8823	8871	8896
	Bottom	8729	8777	8825	8873	
Stage 14 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8535	8583	8631	8679	8704
	Bottom	8537	8585	8633	8681	
Stage 15 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8343	8391	8439	8487	8512
	Bottom	8345	8393	8441		
Stage 16 Perfs: 6 shots loaded @ 60 degree phasing	Тор	8151	8199	8247	+	+
	Bottom	8153	8201	8249	8297	<u>'</u>
Stage 17 Perfs: 6 shots loaded @ 60 degree phasing	Тор	7959	8007	8055	8103	8128
	Bottom	7961	8009	8057	8105	

Propose Pump schedule

Slick	vater i	2 (5,000 ft)		1500 #/ft_50 ft x 4 Clusters_Slickwater_Reduced Fluid							
					Fluid Info	rmation			Proppant Inf	ormation	
	Time		Rate	Clean	Dirty	Cum. Dirty		Prop. Con	<u>.</u> .	Stage Sand	Cum. Sand
	[min]	Type	[bpm]	(gob)	[gals]	(goh)	Description	[PPA]	Description	(lbs)	[ibs]
1	0.79	Actd	30	1000	1,000	1,000	7.5% HCI				
2	6.08	2a d	90	15000	20,000	21,000	Stick Water				
3	9.61	Sand Laden	90	10000	13,635	34,634	Stick Water	0.50	100 Mesh	5,000	5,000
4	13.84	Sand-Laden	90	12000	16,543	51,177	Sick Water	0.75	100 Mesh	9,000	14,000
5	19.14	Sand Laden	90	15000	20,904	72,081	SLitk Water	1.00	100 Mesh	15,000	29 000
6	76 19	Sand Laden	90	20000	28,174	100,755	Suck Water	1 25	ricoM 001.	25 000	54,000
7	36.42	Sand Laden	90	29000	41,290	141,545	Si'th Water	1.50	100 Mesh	43 500	97,500
8	47.00	Sand Laden	90	30000	43,166	184,711	Sizk Water	1 /5	100 Mesh	42,500	150,000
9	52 29	Sweep	90	15000	20,904	205,616	Stek Water	1.00	40/70 White	15,000	165,000
10	57.58	Sand Laden	90	15000	21,131	226,746	Sizh Water	1.25	40/70 While	18,750	183,750
11	64 64	Sand-Laden	90	20000	28,476	255,272	Slick Water	1 50	40/70 White	00n) OF	713,750
12	72.75	Sand-Laden	90	23000	33,094	288.316	Sick Water	1.75	40/70 White	40,250	254,000
13	80.86	Sand Laden	8 0	23000	33,441	321,757	SEA Water	2.00	40/70 White	46 000	300,000
14	0.00	Hush	90				Slick Water		(Flush to Top Per)	300,000

MOHAWK ENERGY EXPANDABLE LINER SPECIFICATIONS

4.25 inch, 0.31 wall x 5.5 inch, 17 lb/ft **FracPatch Specifications**

	Expa	ndable	Pipe Body		
Pre-Expar	nsion		Post Expa	nsion	j
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	%

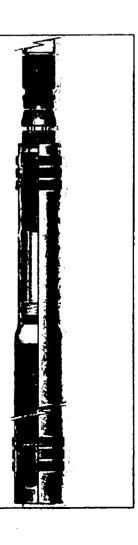
	Expai	ndable	Connection		*
Pre-Expa	nsion		Post Expa	ansion	
Connection OD	4.310	inches	Connection OD	4.865	inches
Connection ID	3.600	inches	Connection ID	4.218	inches
Drift	3.505	inches	Drift	4.158	inches
Tensile Rating	142,286	lbs	Internal Yield	9,895	psi
Compressive Rating	142,286	lbs	Collapse	5,600	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

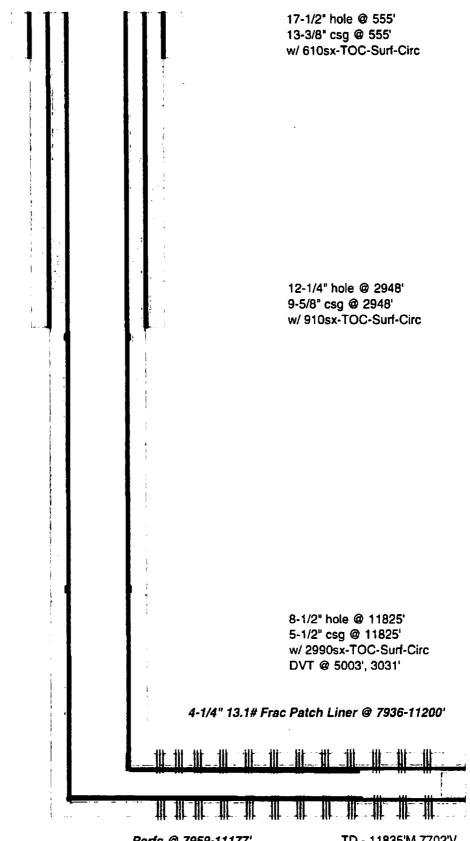
Mohawk Energy Setting Tool:

Table 4. 4.25 Setting Tool Specific	ations
Tool connection up	2-7/8", 7.9# PH-6 Box
Tool weight	900 lbs
Tool length	40.0 ft
Expansion stroke	2.80 n
Max. dog-leg severity	25 º/100ft
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

	<u>Table 5.</u>	<u>3 50</u>	Too	Runr	ning P	:arame	lers
ľ							

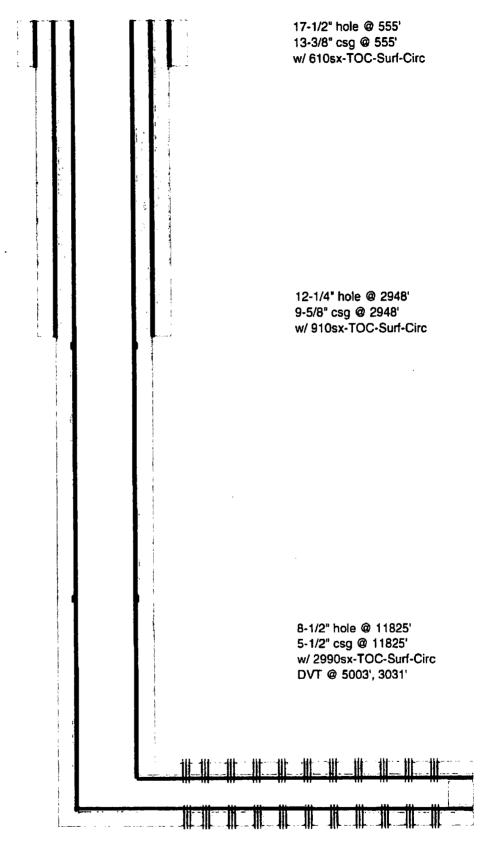
Event	Pressure or Force
Stabbing sub latching load	500 lbs
Max. slack off during deployment	15,000 lbs
Max. overpull during deployment	25,000 lbs
Drive unit shear disk	1,750 psi
Tool reset	3.000-5,000 lbs
Safety burst disk relief	5,000 psi





Perfs @ 7959-11177'Original Perfs @ 7950-11700'

TD - 11835'M 7702'V PB - 11728'M 7702'V



Perfs @ 7950-11700'

TD - 11835'M 7702'V PB - 11728'M 7702'V