Submit 1 Copy To Appropriate District Office	State of New Mexico	Form C-103
District I ~ (575) 393-6161	Energy, Minerals and Natural Resources	Revised July 18, 2013
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-015-33820
District III – (505) 334-6178	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa PC, 14141 67303	6. State Oil & Gas Lease No.
	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS. DIFFERENT RESERVOIR. USE "APPLIC."	ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A ATION FOR PERMIT" (FORM C-101) FOR SUCH	H. Buck State
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well  Other	8. Well Number 3
2. Name of Operator		9. OGRID Number
OXY USA I	nc.	16696
3. Address of Operator	250 M. H. J. E.V. 20210	10. Pool name or Wildcat
	250 Midland, TX 79710	Pierce Crossing Bare Spring, East
4. Well Location Unit Letter A:	660 feet from the Novth line and	330 feet from the east line
Section (5	Township 245 Range 29F	NMPM County £114
The second secon	11. Elevation (Show whether DR, RKB, RT, GR,	etc.)
	2927'	
12. Check A	ppropriate Box to Indicate Nature of Noti	ice, Report or Other Data
NOTICE OF INT	TENTION TO:	UBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMEDIAL W	
TEMPORARILY ABANDON	<del></del> }	DRILLING OPNS. □ P AND A □
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEN	<del></del>
DOWNHOLE COMMINGLE	ONORWA DEN	MEINT GOD
CLOSED-LOOP SYSTEM	}	
OTHER: Liner Pent	Frac IT OTHER:	
	k). SEE RULE 19.15.7.14 NMAC. For Multiple	s, and give pertinent dates, including estimated date c Completions: Attach wellbore diagram of
		NM OIL CONSERVATION
	- A	ARTESIA DISTRICT
	See Affached	JAN <b>1 8</b> 2018
		SHIV I O LUIU
		(2)   W. C. L. A. J. L.
		RECEIVED
S. al D. a.	Di Di su Duu	
Spud Date:	Rig Release Date:	
I hereby certify that the information a	bove is true and complete to the best of my know	ledge and belief
Thereby certify that the information a	bove is true and complete to the best of my know	leage and benefit
//. / <u>/</u>		1 (
SIGNATURE h & Styl	TITLE Sr. Regulatory Ac	Ivisor DATE 1/2/18
Towns and state of the Paris of	70	CONTROL AND COS 5717
Type or print name <u>David Stewart</u>	t E-mail address: <u>david_stew</u>	VAILWOXY.COM PHONE: 432-083-3/1/
For State Use Only		
	-3 (10)	1 . O 10
APPROVED BY: Conditions of Approval (if any):	ee TITLESTATE Mg	DATE /-/8-/8

## Well Prep Procedure:

- MIRU PU and rig equipment
- Ensure well is dead
- MU tubing equipment and POOH w/2-3/8" tubing send to yard for inspection
- RIH with cleanout BHA

### BHA as following per Mohawk Energy design:

Table 1: Recommended Clean Out/Drift BHA ~ (Exact BHA can change depending on connections)

Qty	Description	Mohawk Part Number	Connection Up	Connection Down	Supplier
-226	2-7/8" 10.4# S-135 AOH	in the related the second and the second place of the self-second second	2-7/8" AOH Box	2-7/8" AOH Pin	Operator
1	Crossover		2-7/8" AOH Box	2-7/8" 7.9# PH6 Pin	Operator
-110	2-7/8" 7.9# P-110 PH6		2-7/8" 7.9# PH6 Box	2-7/8" 7.9# PH6 Pin	Operator
1	Ball drop drain sub 625 psi/pin	P-02339	2-7/8" 7.9# PH6 Box	2-7/8" 7.9# PH6 Pin	Mohawk
1	Crossover	P-02353	2-7/8" 7.9# PH6 Box	2-7/8" API Reg Pin	Mohawk
1	4 798" String mill	O-00338	2-7/8" API Reg Box	2-7/8" API Reg Pin	Mohawk
1	String Magnet		2-7/8" API Reg Box	2-7/8" API Reg Pin	Mohawk
1	4.798" String mill	O-00338	2-7/8" API Reg Box	2-7/8* API Reg Pin	Mohawk
t	Bit Sub	P-02382	2-7/8" API REG Box	2-7/8' API REG Box	Mohawk
1	Venturi Basket		2-7/8" API Reg Box	N/A	Mohawk

- RU power swivel if needed and cleanout to PBTD (use air foam unit/ nitrogen for circulation if needed)
- · POOH with BHA and work string
- RIH with work string to 7000' and test casing to 6200# or max treating pressure, whichever is lower.
- Bleed off pressure and RBIH to latch on RBP, release RBP and begin POOH LD w/ RBP, Packer and 2-7/8" tbg
- MIRU Mohawk Energy, prep to RIH w/ 4-1/4" 13.1 Liner @ approximately 7852-10700' per the following Mohawk Procedure:

#### Mohawk Enemy RIH Procedure

## Liner Make Up and Deployment:

- 1. Conduct a safety meeting. Go over parameters such as number of joints to pick up, safe running speeds, safe running weights, and important depths. Mohawk rep will discuss circulation tool function.
- 2. Discuss well control options before running the liner.
- 3. Rig up Mohawk liner lifting subs, T1W valve, and circulating crossover subs.
- 4. Rig up casing handling equipment including slips and bowls, flush joint elevators, and tongs (if used).
- 5. Pick up setting tool with elevators using Mohawk's lift nubbin as a shoulder. Run in hole and set in slips (some applications require the slips to be set on the seal joint). Install a safety clamp.
- 6. Make up liner in final proposed order per MetalPatch liner tally sheet.
- Install lift nubbin on each joint.
- Mohawk's proprietary r2m thread is made up dopeless. Do not put dope on r2m threads.
- Make up each r2m connection with Mohawk provided wrenches or to 1,300 ft-lbs with casing crew tongs.
- Install safety clamp on every joint.
- Designate one man to watch the lift nubbin while making up joints to ensure it spins freely and does not back off while making a connection.
- 7. After running all liner joints, pick up the exit joint with the exit joint lift nubbin. Land the exit joint as low as possible in the slips.
- 8. Rig up the Mohawk false rotary table on top of the exit joint.
- 9. Swap over to the Mohawk inner string circulating crossover assembly.
- 10. Rig up the work string slips on top of the Mohawk table. Cover the hole.
- 11. Swap all handling equipment to run work string inside of the Mohawk liner joints.
- 12. Pick up the inner string BHA (please see Table in page 13 above). Use minimum dope only on the pins.
- 13. Check tally and have a meeting to discuss latch-in depth (the inner string BHA will latch into the setting tool and pick up the liner).
- 14. Begin tripping in hole with work string:
- Confirm latch-in depth.
- 10ft above the setting tool, slow the trip in speed to 10 ft/min.
- Continue to run in hole and latch into the setting tool by slacking off.
- · After latching in, pick up slowly and check to see the tool is latched and the liner lifts out of the slips.
- Set down and pick up again to check latch-in (resetting the slip and bowl may be required).
- Use Mohawk supplied jack to confirm tool is latched in for liners less than 100ft (see Appendix 5).
- Pick up out of the slips.
- 15. Rig down the work string slips, rig down Mohawk table, and rig down the liner slips.
- 16. Rig up the work string slips and begin running the liner in the hole.
- RIH 1 min/stand
- If anything is tagged while RIH, notify a Mohawk representative.
- Use caution on and off slips to avoid jarring the liner.
- Circulate through tool at 0.5 BPM every 50 stands for 3 BBL.
- If in a horizontal, take pick up and slack off weights before entering the lateral.
- Monitor pick up and slack off weights.
- After entering the lateral, pomp down tubing 0.5 BPM every 10 stands.
- 17. Trip in hole to setting depth.
- 18. If using a plug or no-go for depth correlation, tag the plug and pull up accordingly.
- 19. If only using the tally for depth, run in past the target by at least 1 joint, pull back up to setting depth and measure depth while on up weight.

# **Mohawk Energy Flush Joint Specification Data Sheet**

# 4.25 inch, 0.31 wall x 5.5 inch, 20 lb/ft FracPatch Specifications

Expandable Pipe Body									
Pre-Expansion Post Expansion									
GO	4.250	inches	ao	4.678	inches				
ID	3.630	inches	(D)	4 084	inches				
Wall Thickness	0.310	inches	Wall Thickness	0.297	inches				
Weight	13,100	lb/ft	Drift	4.024	inches				
Drift	3.505	inches	Internal Yield	10,296	psi				
Seal Joint OD	4.490	inches	Collapse	6,024	psi				
Seal Thickness	0.120	inches	Expansion Ratio	12.497	96				

Expandable Connection Pre-Expansion Post Expansion								
Connection ID	3.600	inches	Connection ID	4.084	inches			
Drift	3.505	inches	Drift	4.024	inches			
Tensile Rating	142,286	ibs	Internal Yield	10,296	psi			
Compressive Rating	142,286	Ibs	Collapse	6,024	psi			
Max DLS	36.01	°/100ft	Tensile Rating	151,612	lbs			
Optimum Torque	1,360	ft-lbs	Compressive Rating	136,451	lbs			
Max Torque	1,496	ft-lbs	Yield Torque	1,700	ft-lbs			

# Mohawk Energy Setting Tool:

Appendix A1: Set	•	
<u> Piring al-Al-Brittina dang Prope</u>	BOARDON FIRM FEED AND A TOTAL AND A STATE OF	
i do: connection up		
Tool length		
Expansion stroke	2 1 1	
Max dog len sevent	The state of the s	
Axial load rating	20 2 13 13 13 1 1 1 1 2 2 2 2 2 2 2 2 2 2	
Max pressure	ia Sieben greier	
Max temperature	3130) *1	
Circulation flow rate	AND STATE	
Valve shut off flow rate	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
Tool connection up Tool well by Tool length Expansion stroke Max dog leg severity Axial load rating Max pressure Max temperature Circulation flow rate Valve shut off flow rate Pressure(force conversion	A4 IDENTIFICATION IN THE RESERVE OF	- Commence
able 5 3 SU Leat Running Pois	ars well comb	
Event	Pressure or Force	
Stabbing sub latching	600 lbs	
Max stack off during deployment	Pressure or Force 500 lbs	
Max overpull during :	28 000 (bs 1 780 ps) 3 000 5 000 (bs	
Drive unit above disk	1 780	
TOO reset	3 000 5 000 lbx	
Safety burst riisk relief	6 000 081	
Towns to the same same same same same same same sam	್ಸಹಾದನ ಕ್ಷೇತ್ರ ೩ ೩ ಲ	

## 2) Liner Expansion Procedure:

- 1. Once depth, conduct a safety meeting. Review all tallies and confirm depths.
- 2. Rig up the pump-in sub, tubing swivel (chicksan), high-pressure hose, and expansion pump on to the tubing.
- 3. Pressure test surface lines to 6000 psi:

Ensure the liner is in exact position prior to starting the test.

Ensure pump kick-outs (or pop offs) are working.

Ensure there is a way to bleed pressure from tubing.

4. Open tubing and pump through the Mohawk setting tool, break circulation if well allows.

Ensure the liner is in exact position prior to circulating.

Set kick-outs to 500psi.

Do not exceed 0.5 BPM flow rate to circulate.

If pressure increases while circulating, do not bleed off.

- 5. After circulation, set kick-outs to 4000 psi.
- 6. Increase rate to 1 BPM, pressure will begin to build. Bring pressure to 3,500 psi and hold for 1 minute (hold first stroke only).
- 7. Bleed tubing down to zero pressure.
- 8. Mark the work string at the slips for reference.
- 9. With the rig, pull the tubing to reset the tool with 3,000-5,000 lbs over string weight or 3' (whichever occurs first). Mark the new position and measure.
- 10. Repeat Steps 6 through 9 until all lower seals are expanded.
- 11. After lower seals are expanded, begin pulling out with the rig:

Mohawk will recommend max hook loads to ensure safe operations.

Pull force will be string weight plus expansion force.

Expansion force can vary as the expansion tool moves through connections and wellbore restrictions.

If max hook load is seen, stop, slack down to neutral hook load, rig up the hose, and repeat Steps 6-9.

Pup joints can be on location to help with slacking down.

12. Stop expansion before reaching the upper seals.

Check progress using pipe tally.

Keep stretch in mind when calculating position.

- 13. Rig up the high pressure hose on to the tubing.
- 14. Increase rate to 1 BPM, pressure will begin to build. If liner compression is required, follow Mohawk direction. Otherwise, increase pressure to 3,700 psi.

Bring pressure to 1,000 psi and hold.

Slack down with pressure on tubing to compress the liner.

Increase pressure to 3,700 psi. While holding pressure, pick back up to neutral.

- 15. Bleed tubing down to zero pressure.
- 16. Mark the work string at the slips for reference.
- 17. With the rig, pull the tubing to reset the tool with 3,000-5,000 lbs over string weight. Mark the new position and measure.
- 18. Repeat steps 14-17 until upper seals are expanded:

Use pipe tally and pressure response to gauge when the upper seals have been expanded.

Upper seals should be expanded with hydraulic expansion and not mechanical over pull.

- 19. Clear the rig of all unnecessary personnel.
- 20. Begin expanding the liner by pulling with the rig.

Pull slowly. - Hook load will decrease once the setting tool exits the liner.

When exiting the top of the patch insure all pressure has been bled off the tubing.

- 21. Tag the top of the liner and confirm depth, estimated Top of liner at 8,400' (Existing Top Perf at 8400')
- 22. Drop ball to open drain sub.
- 23. POOH and laydown all Mohawk tools
- 24. RDMO PU

## Well Prep-Coil tubing TCP and stimulation operation

- Conduct pre-job safety meeting discuss scope of work and hazard
- Check wellhead pressure and bleed off pressure if any to grounded flowback tank
- MIRU Cameron WH Company and equipment.
- Install 10M frac stack on wellhead
- MIRU 2"CTU with TCP guns
- RIH with TCP guns and perforate stage 1 with 4 cluster (per attached perf design)
- Spot 7.5% HCI acid and breakdown stage 1
- RDMO 2"CTU.
- MIRU frac and WL company
- Frac stage 1 per the pump schedule below
- RIH with WL and plug & perf for stage 2 and frac afterwards
- Repeat process for the remaining stages (estimated 13 total stages) Proposed total perfs @ 7951-10667' and Frac w/ 321757g Slickwater w/ 300000# sand, see attached for details.
- RDMO frac and WL company
- · Open well to flowback

#### Well Clean out and Flowback Procedure

- Hold Pre-job safety meeting, discuss scope of work and hazards
- Check well head pressure- bleed off pressure if any to grounded flowback tank
- MIRU 2" CT unit, PU 3-1/2" JZ bit, (Mohawk liner, 4.25"0D, RIH and DO plugs and CO to PBTD
- Circulate hole clean w/ N2 if needed
- RDMO CT unit
- MIRU PU and casing crew
- RDMO PU
- · Turn well to production.
- An artificial lift procedure will be provided once flowback operations completed.

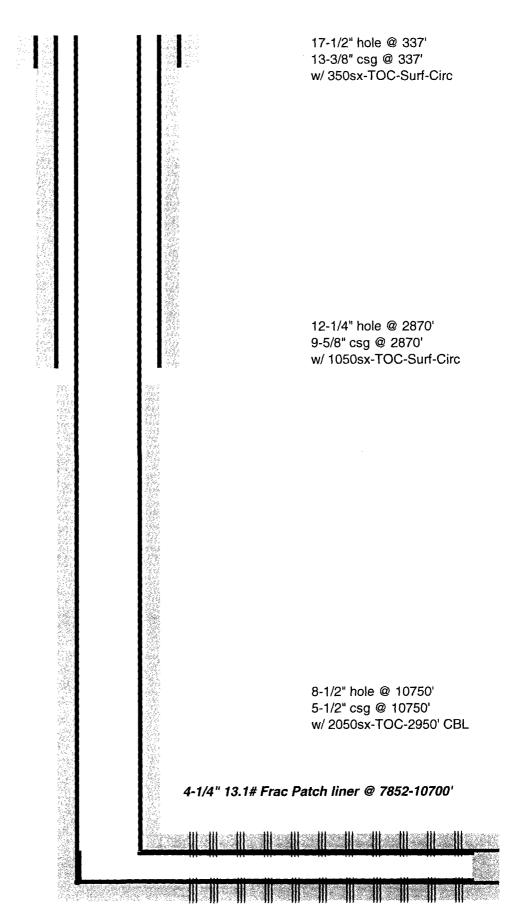
# **Propose Perforation & Plug Depth**

Stage	Depth		Plug top			
(#)	(ft)	Cluster 1				
	Top	10,667	10,622	10,577	10,532	
1	Bottom	10,666	10,621	10,576	10,531	10,492
	Hole	6	6	6	6	10,492
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	10,452	10,407	10,362	10,317	
2	Bottom	10,451	10,406	10,361	10,316	10,277
~	Hole	66	6	6	66	10,277
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	10,237	10,192	10,147	10,102	
3	Bottom	10,236	10,191	10,146	10,101	10,062
	Hole Phasing	6 60 Dea	6 60 Deg	6 Deg	6 60 Deg	
	Top	10,022	9,977	9,932	9.887	
	Bottom	10,021	9,976	9,931	9,886	
4	Hole	6	6	6	6	9,847
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	9,807	9,762	9,717	9,672	
	Bottom	9,806	9,761	9,716	9,671	
5	Hole	6	6	6	6	9,632
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Top	9,592	9,547	9.502	9,457	
	Bottom	9,592	9,546	9,502	9,456	
6				<del></del>		9,417
	Hole Phasing	6 60 Deg	6 60 Deg	6 60 Deg	60 Deg	
	<del></del>	<del></del>				<del></del>
	Тор	9,377	9,332	9,287	9,242	
7	Bottom	9,376	9,331	9,286	9,241	9,202
	Hole	6	66	<u> </u>	6	
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	<del></del>
	Тор	9,162	9,117	9,072	9,027	
8	Bottom	9,161	9,116	9,071	9,026	8,987
	Hole	6	<u>6</u>	46	<u> </u>	
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	8,947	8,902	8,857	8,812	
9	Bottom	8,946	8,901	8,856	8,811	8,772
•	Hole	6	6	6	6	-,
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	8,732	8,687	8,642	8,597	
10	Bottom	8,731	8,686	8,641	8,596	8,557
	Hole	6	6	6	6	4,551
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	8,517	8,472	8,427	8,382	
11	Bottom	8,516	8,471	8,426	8,381	8,342
• •	Hole	6	6	6	6	5,54£
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	8,302	8,257	8,212	8,167	
	Bottom	8,301	8,256	8,211	8,166	0.407
12	Hole	6	6	6	6	8,127
	Phasing	60 Deg	60 Deg	60 Deg	60 Deg	
	Тор	8,087	8,042	7,997	7,952	
	Bottom	8,086	8,041	7,996	7,951	
13	Hole	6		6	6	
	11 1016	•	6		٠ .	

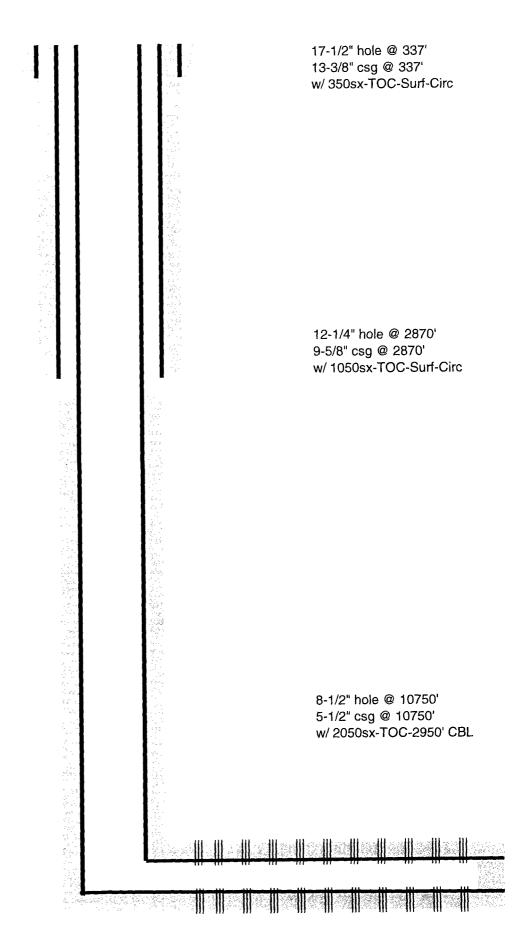
# Propose Pump schedule

Slick	vater 2	(5,000 ft)		1	.500 #/fi	_50 ft x 4	4 Clusters_	Slickwate	er_Reduced	l Fluid	
				Fluid Information					Proppant in	formation	
	Time		Rate	Clean	Dirty	Cum. Dirty		Prop. Conc.	•	Stage Sand	Cum. Sand
#	[min]	Туре	[bpm]	[gals]	[gais]	[gals]	Description	(PPA)	Description	[adl]	(ibs)
1	0.79	Acid	30	1000	1,000	1,000	7.5% HCI			-	-
2	6.08	Pad	90	15000	20,000	21,000	Slick Water			-	-
3	9.61	Sand-Laden	90	10000	13,635	34,634	Slick Water	0.50	100 Mesh	5,000	5,000
4	13.84	Sand-Laden	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	72,081	Slick Water	1.00	100 Mesh	15,000	29,000
6	26.19	Sand-Laden	90	20000	28,174	100,255	Slick Water	1.25	100 Mesh	25,000	54,000
7	36.42	Sand-Laden	90	29000	41,290	141,545	Slick Water	1.50	100 Mesh	43,500	97,500
8	47.00	Sand-Laden	90	30000	43,166	184,711	Slick Water	1.75	100 Mesh	\$2,500	150,000
9	52.29	Sweep	90	15000	20,904	205,616	Slick Water	1.00	40/70 White	15,000	165,000
10	57.58	Sand-Laden	90	15000	21,131	226,746	Slick Water	1.25	40/70 White	18,750	183,750
11	64.64	Sand-Laden	90	20000	28,476	255,222	Slick Water	1.50	40/70 White	30,000	213,750
12	72.75	Sand-Laden	90	23000	33,094	288,316	Slick Water	1.75	40/70 White	40,250	254,000
13	80.86	Sand-Laden	90	23000	33,441	321,757	Slick Water	2.00	40/70 White	46,000	300,000
14	0.00	Flush	90				Slick Water		Flush to Top Per	rf)	300,000

OXY USA Inc. - Proposed H. Buck State #3 API No. 30-015-33820



**Perfs @ 7951-10667'** Original Perfs @ 7971-10667'



Perfs @ 7971-10667'