

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-41488
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Hannon 9
8. Well Number 34
9. OGRID Number 16696
10. Pool name or Wildcat Pierce Crossing Bone Springs, East
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 2933'

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
OXY USA Inc.

3. Address of Operator
P.O. Box 50250 Midland, TX 79710

4. Well Location
Unit Letter P: 200 feet from the south line and 550 feet from the east line
Section 9 Township 24S Range 29E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
2933'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☒	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

See Attached

RECEIVED

JUN 11 2018

DISTRICT II-ARTESIA O.C.D.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Stewart TITLE Sr. Regulatory Advisor DATE 6/7/18

Type or print name David Stewart E-mail address: david_stewart@oxy.com PHONE: 432-685-5717

For State Use Only

APPROVED BY: Staff Mgr. TITLE Staff Mgr. DATE 6-12-18
Conditions of Approval (if any):

OXY USA Inc. – Harroun 9 #3H – 30-015-41488

1. Check location for hazardous conditions. MIRU. Ensure the well is dead.

Cleanout:

2. Run with 4 ¾" bit and 5 ½" casing scraper to 8700' (200' below future gas lift packer).

NOTE: Potential casing holes from 7415' to 6220'.

Upper Casing Testing:

3. Run with 5 ½" RBP and set it 6100'.
4. Test casing above 6100' to 2000 psi (gas lift will need as high as 1200 psi) for 15 minutes.
5. POH RBP.

Casing Drift Diameter Verification:

6. Mohawk to perform a drift tool to 7700' to make sure expandable liner will pass.

Run Mohawk Expandable Liner:

7. RIH with Mohawk Expandable liner from 6100-7600' (potential casing holes from 7415' to 6220'.

Mohawk Expandable Liner Testing:

8. Run with 5 ½" packer. Set it at 7700'.
9. Pressure up casing to 2000 psi to test expandable liner for 15 minutes.
NOTE: Contact NMOCD for witnessing and minimum requirements on testing time and pressure.
10. POH with 5 ½" packer.

RIH Packer BHA:

11. PU the following packer assembly (from bottom up): 2-3/8" wireline entry guide, 2-3/8" Dual Ceramic Shear Disc, XN profile No-Go 1.87" with 2-3/8" EUE BxP, 6' x 2-3/8" OD, 4.7#, L-80 with 2-3/8" EUE BxP Pup Joint, 5 ½" packer x 1.995" with 2 3/8" EUE 8rd, dressed with ON/OFF tool sub with 1.87" Nipple Profile Stinger.
12. RIH with BHA on 2 3/8" tubing L-80, 4.7# EUE.
13. Set packer at **8416' MD** (36°).
14. With tubing open, pressure up casing to 1,500 psi to ensure packer is set.
15. Unlatch ON-OFF tool overshot.
16. Circulate a full wellbore of filtered fresh water and then a full wellbore of packing fluid to ensure the wellbore is clear of any debris.
17. POH with 2 3/8" tubing. LD On-Off overshot.

GL Run:

18. Pick up on On-Off overshot and GL BHA as described in the wellbore diagram proposed below.
19. RIH with GL assembly "as described in the Well-bore Diagram" proposed banding with 40 Boss clamps (for DHG) in the bottom joints and with 3 monel bands per joint and testing cable (SLB DHG readings) every 30 joints.
20. Hydrotest the tubing while RIH to 3,000 psi.
21. Install TIW valve on last tubing joint.
22. Latch onto On-Off tool. Space out. Set tubing hanger landing with 12K of compression down on packer. **Note: SLB tech will be on location to connect the cable thru the tubing hanger.**
23. Install pressure gauge on casing side and pressure test tubing and packer assembly.
24. Pressure up the production tubing to 1,500 psi and hold for 10 minutes- observe for any communication between casing and tubing.
25. **NOTE:** If casing pressure remains zero and the casing and tubing do not equalize, packer, GLVs and tubing are holding. Continue to next steps. If pressure equalizes, call PE for further instruction.

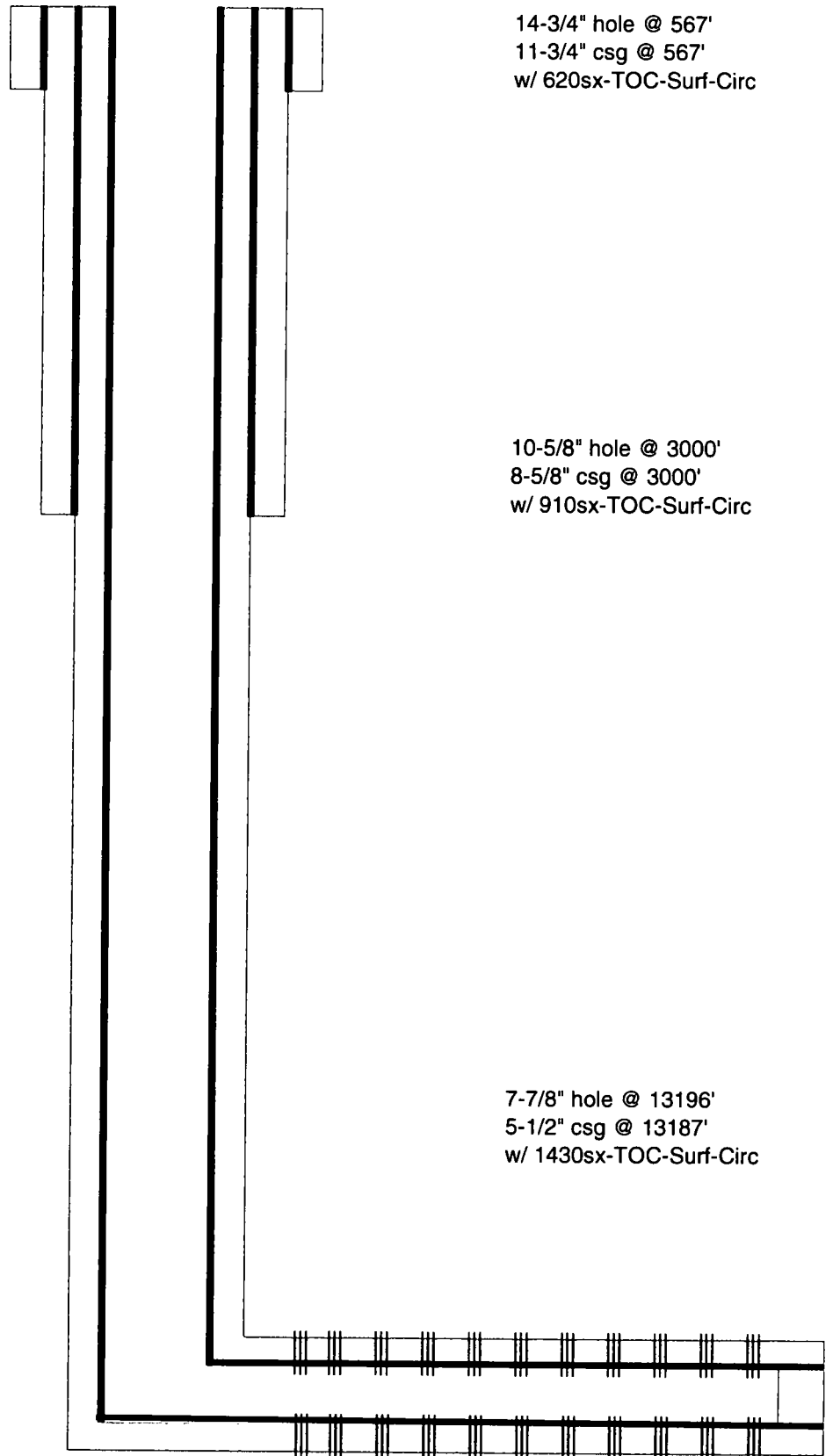
Break Packer Disk

26. MIRU Slickline and 5M Pressure Control Equipment (PCE)
27. RIH to break shear disk at **10,006'** MD
28. RIH with the BHA above, prior breaking the disk apply ~1,000 psi (balancing for pressure below the disk and keep the tension of the disk)
29. Break packer disk
30. Verify that disks are broken- record pressure
31. RDMO Slickline and 5M PCE
32. Turn over to Production.

Unloading Procedure:

- 1 Install gas lift line to the casing valve and flowline to the wing valve.
- 2 Verify all valves from the wellhead to the separator are opened.
- 3 Bleed down the tubing thru a flowline choke. Do not inject lift gas before or while the tubing is being bled down.
- 4 Remove or slowly enlarge the flowline choke.
- 5 Inject lift gas into the casing at a rate below 50 psi increase in casing pressure for 10 minute interval. Continue until the casing pressure has reached at least 300 psi.
- 6 Inject lift gas into the casing at a rate below 100 psi increase for 10 minute interval until the gas has circulated thru the top valve (top valve is uncovered).
- 7 If lift gas rate measurement is available, step 6 could be substituted with injection rate of +/-300 MCFPD until kickoff.
- 8 Adjust the gas injection to 0.5MMCFPD.

OXY USA Inc. - Current
Harroun 9 #3H
API No. 30-015-41488



14-3/4" hole @ 567'
11-3/4" csg @ 567'
w/ 620sx-TOC-Surf-Circ

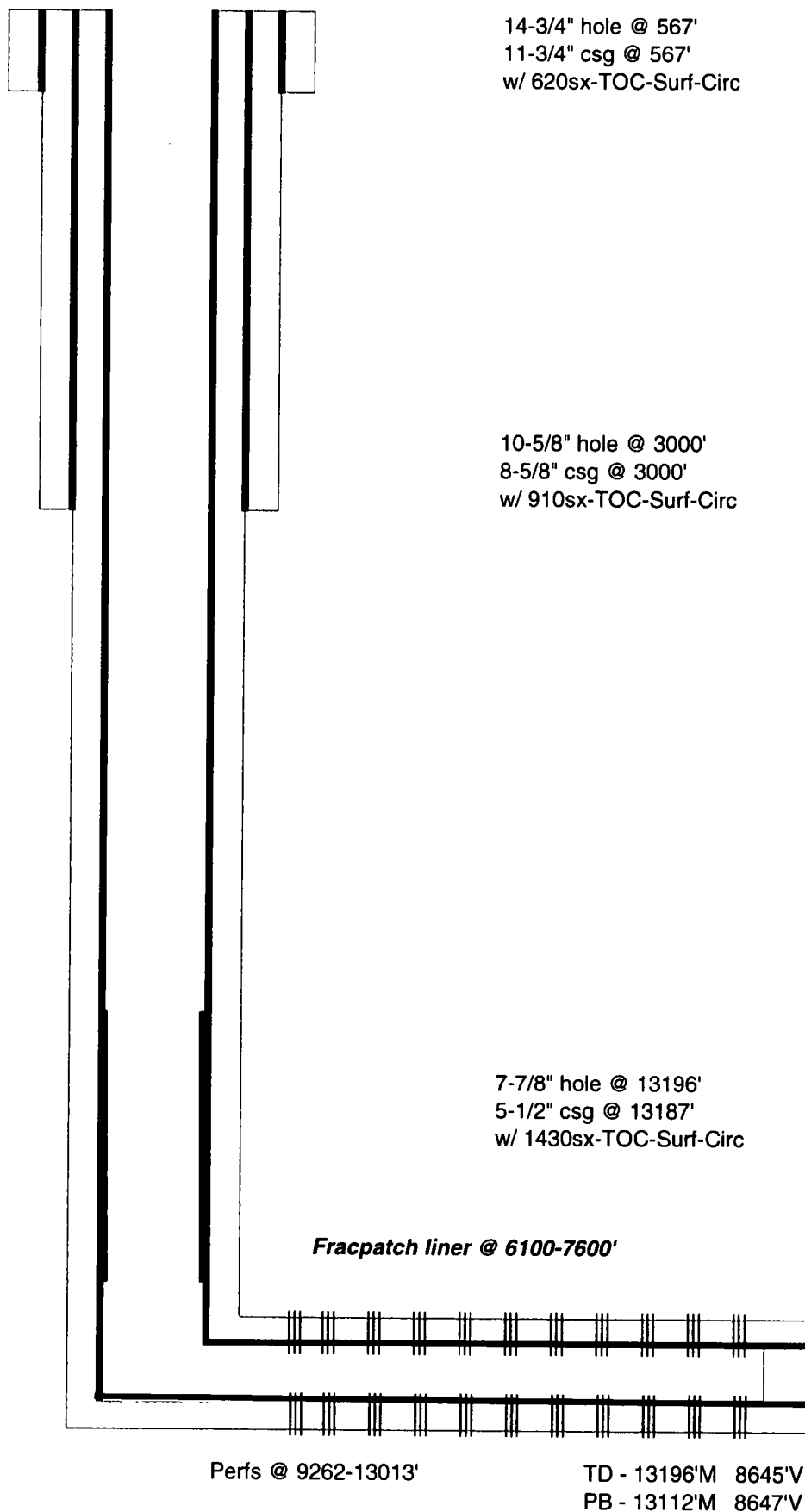
10-5/8" hole @ 3000'
8-5/8" csg @ 3000'
w/ 910sx-TOC-Surf-Circ

7-7/8" hole @ 13196'
5-1/2" csg @ 13187'
w/ 1430sx-TOC-Surf-Circ

Perfs @ 9262-13013'

TD - 13196'M 8645'V
PB - 13112'M 8647'V

OXY USA Inc. - Proposed
Harroun 9 #3H
API No. 30-015-41488



METALPATCH RATINGS

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
7.00	32.0	6.094	5.069	5.905	5.315	5.255	0.295	7.063	3.048
	29.0	6.184	5.059	6.003	5.417	5.357	0.290	6.927	2.904
	26.0	6.276	6.151	6.103	5.521	5.461	0.291	6.763	2.788
	23.0	6.366	6.241	6.198	5.620	5.560	0.289	6.613	2.640
	20.0	6.456	6.331	6.299	5.728	5.665	0.287	6.457	2.512

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
5.50	26.0	4.548	4.423	4.461	3.985	3.925	0.238	7.582	3.456
	23.0	4.670	4.545	4.552	4.068	4.008	0.243	7.571	3.448
	20.0	4.778	4.653	4.670	4.190	4.130	0.240	7.296	3.216
	17.0	4.892	4.767	4.795	4.321	4.261	0.237	7.020	2.964
	15.5	4.950	4.825	4.856	4.387	4.327	0.236	6.686	2.672
	14.0	5.012	4.887	4.927	4.458	4.398	0.234	6.745	2.752

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
5.00	26.7	3.878	3.761	3.781	3.299	3.209	0.246	9.285	4.868
	24.2	4.000	3.875	3.900	3.418	3.358	0.242	8.801	4.480
	23.2	4.044	3.919	3.950	3.499	3.409	0.241	8.537	4.344
	20.8	4.126	4.001	4.042	3.567	3.507	0.238	8.343	4.098
	18.0	4.276	4.151	4.180	3.667	3.607	0.248	8.404	4.144

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
4.50	15.1	3.828	3.701	3.705	3.209	3.149	0.248	9.491	4.992
	13.5	3.920	3.795	3.810	3.321	3.261	0.245	9.109	4.736
	12.6	3.968	3.833	3.853	3.366	3.306	0.243	8.961	4.616
	11.6	4.000	3.875	3.900	3.418	3.358	0.242	8.801	4.480
	10.5	4.053	3.927	3.959	3.478	3.418	0.240	8.608	4.320
	9.5	4.090	3.965	4.002	3.524	3.464	0.239	8.471	4.200

FRACPATCH RATINGS

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
5.50	26.0	4.548	4.423	4.461	3.985	3.925	0.238	8.668	4.312
	23.0	4.670	4.545	4.552	4.068	4.008	0.243	8.663	4.304
	20.0	4.778	4.653	4.670	4.190	4.130	0.240	8.339	3.998
	17.0	4.892	4.767	4.795	4.321	4.261	0.237	8.023	3.640
	15.5	4.950	4.825	4.856	4.387	4.327	0.236	7.690	3.480
	14.0	5.012	4.887	4.927	4.458	4.398	0.234	7.709	3.312

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
5.00	26.0	4.548	4.423	4.422	3.812	3.752	0.306	11.176	6.944
	23.0	4.670	4.545	4.557	3.956	3.896	0.301	10.667	6.448
	20.0	4.778	4.653	4.676	4.084	4.024	0.297	10.299	6.024
	15.5	4.950	4.825	4.869	4.287	4.227	0.291	9.668	5.400
	14.0	5.012	4.887	4.939	4.360	4.300	0.286	9.494	5.184

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
5.00	26.7	3.878	3.761	3.781	3.299	3.209	0.246	10.611	6.352
	24.2	4.000	3.875	3.900	3.416	3.356	0.242	10.058	5.778
	23.2	4.044	3.919	3.950	3.499	3.409	0.241	9.871	5.578
	20.8	4.126	4.001	4.042	3.597	3.507	0.238	9.535	5.224
	18.0	4.276	4.151	4.180	3.667	3.607	0.248	9.805	5.296

Customers Casing				Expanded Tubular Geometry				Expanded Tubular Performance	
OD	WT	ID	API Dn	OD	Nominal ID	Special Dn	Wall	Int. Yield	Collapse
[in]	[lb/ft]	[in]	[in]	[in]	[in]	[in]	[in]	[ksi]	[ksi]
4.50	15.1	3.828	3.701	3.705	3.209	3.149	0.248	10.848	6.800
	13.5	3.920	3.795	3.810	3.321	3.261	0.245	10.410	6.144
	12.6	3.968	3.833	3.853	3.366	3.306	0.243	10.241	5.968
	11.6	4.000	3.875	3.900	3.416	3.356	0.242	10.058	5.778
	10.5	4.053	3.927	3.959	3.478	3.418	0.240	9.838	5.544
	9.5	4.090	3.965	4.002	3.524	3.464	0.239	9.681	5.378

MetalPatch™

 Mohawk Energy
expanding the limits

OVERVIEW

Casing, tubing or completion equipment in the wellbore may fail or deteriorate over the life of the well. This may occur due to corrosion, leaking tubular connections, or failed sliding sleeves. MetaPatch™ allows the failed area to be clad and sealed with minimal loss of inner diameter, while providing high burst and collapse ratings.

The MetaPatch product is designed to be deployed on tubing and cover long or short intervals ranging from 30 to 5,000 feet. Long patch lengths are reliably achieved with Monowick's proprietary expandable R2M connections. MetaPatch can also be deployed through various ID restrictions in the wellbore such as, risers, frac sleeves, or mixed strings of heavy weight casing.

For applications requiring isolation from fracturing, the FracPatch™ system will be utilized. The FracPatch system relies on higher performing materials and a unique frac seating system to handle high treating pressures as well as the induced loads from large temperature cool downs.

APPLICATIONS

PRODUCTION IMPROVEMENT

- Perforation shut off
- Wellbore reduction for improved flow rate / ESP
- Water shut off
- Refrac

CASING INTEGRITY ISSUES

- Connection / Collar leaks
- Parted casing
- Casing corrosion
- Casing wear

COMPLETION FAILURES

- Leaking sliding sleeve
- Open frac sleeve
- Leaking frac valve
- Leaking DV tool

FEATURES & BENEFITS

PERFORMANCE

- Tubular material and geometries have been optimized for high burst and collapse ratings
- FracPatch specially designed to handle high pressures and large temperature changes

PASS-THRU CAPABILITY

- Patch can be deployed through various ID restrictions
- Patch can straddle frac sleeves or stray heavy weight casing joints

VERSATILE RUNNING TOOL

- Allows the patch to be expanded without the need to drop balls or carts down the ID of the workstring
- Redundant hydraulic cylinders capable of exerting high force for pipe expansion (3-4 times force required)

FULLY EXPANDABLE CONNECTIONS

- Proprietary R2M connections are designed to deliver high performance after expansion
- Connections do not require any pipe dope for "Rig Ready" makeup

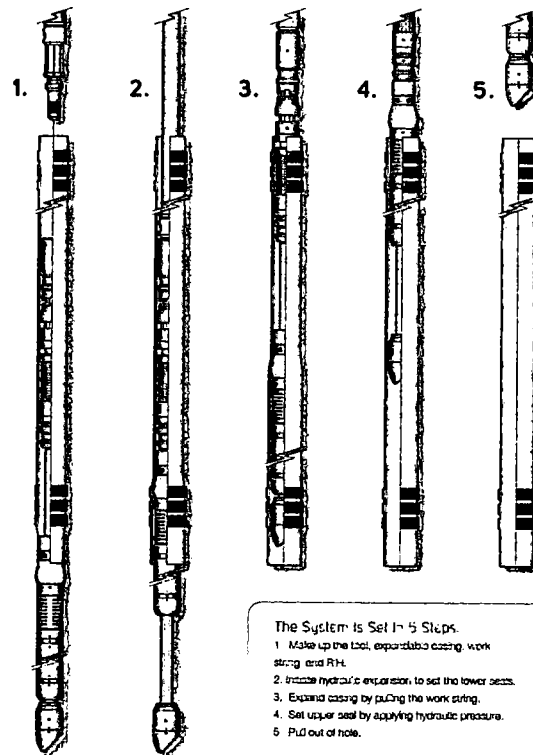
NO DRILLOUT REQUIRED

- No shoes to mG up after expansion
- No debris left behind in the wellbore
- Patch deployed and expanded in one trip

HIGH TEMPERATURE RATING

- Premium elastomers available for temperatures over 300 degrees F
- Metal to metal seals also available for higher temperatures

DEPLOYMENT SCHEMATIC



The System is Set in 5 Steps.

1. Make up the tool, expandable casing, work string, and RHT.
2. Initiate hydraulic expansion to set the lower seals.
3. Expand casing by pulling the work string.
4. Set upper seal by applying hydraulic pressure.
5. Pull out of hole.

