V-F Petroleum Inc.

30-015-22814

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State 23 A #1

Turkey Track Bone Springs Recompletion Procedure

Well Data

Location: 1980' FSL & 660' FWL Lot L, Sec 23, T-19-S, R-35-E
Eddy County, New Mexico
API No.: 30-015-22814
TD: 11,775' PBTD: 9,000' Elevation: 3,135'

Casing and Cement:

11 3/4", 48# @ 316' cmt w/ 300 sx circulated to surface
8 5/8", 32# @ 3,000' cmt w/ 2,025 sx circulated to surface
4 1/2", 11.6" @ 11,775' cmt w/ 850 sx TOC @ 6,000'

Procedure

1. Dig out cellar. Nipple up on 11 3/4", 8 5/8", and 4 1/2" casing. Install 7 1/16" 3,000# BOP.
2. Test BOP and 4 1/2" casing head to 2,000#.
3. Drill cement plug 0-366'. Test casing to 2,000#.
4. Drill cement plug 1,117'-1,570'. Test casing to 2,000#.
5. Drill cement plug 2,870'-3,100'. Test casing to 2,000#.
6. Drill cement plug 3,640'-3,800'. Test casing to 2,000#.
7. Drill cement plug 5,525'-5,725'. Test casing to 2,000#.
8. Drill cement plug 7,470'-7,850'. Drill CIBP @ 7,850'. Drill cement retainer @ 8,170'. Drill cement to 8,200'.
9. Lower bit to 9,500'. Set CIBP @ 9,250'. Dump bail 35' of cement on top of CIBP.
10. Perforate 3rd Bone Springs Sand 8,958' – 8,970' and 9,078' – 9,114'.
11. Acidize, Swab back load.
12. Reacidize with ball sealers, Swab back load and test.
13. If Volume is satisfactory, return well to production from 3rd Bone Springs.
14. Reestablish production from existing 2nd Bone Spring perforations 7,930'-8,022'.
15. If entry rate is not satisfactory, a sand frac job will be recommended.

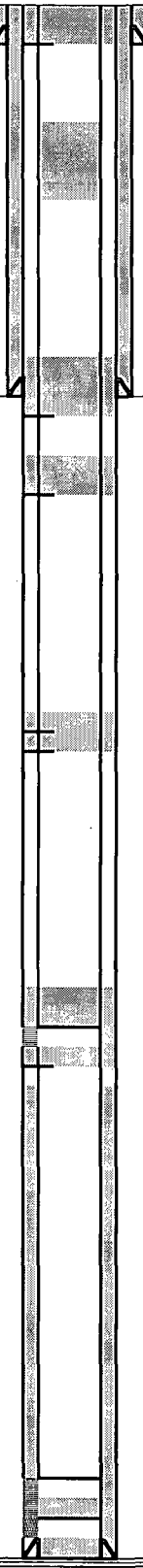
UPDATED B.S. perfs

md \ eng \ drilling \ history \ State 23 A #1 history in schmatic form 130816 08/16/2013

Well: State 23 A #1
Location: 1980 FSL and 660 FWL of Sec 23 T-19-S R-29-E
of Eddy County, New Mexico
Objective:
API# 30-015-22814

Operator: V-F Petroleum Inc.
Field: Turkey Track Bone Springs
Elevation: GL= 3135
KB-GL=
KB=

Tot Depth	Perfs	Squeeze & Pluggs	Hole Sz	Casing & Cement	Tot Depth
150			17 1/2"		150
316	366	Squeeze w/ 106 sx CMT Plug		11 3/4" CSG w/ 300 sx CMT	316
450			12 1/4"		450
600					600
750					750
900					900
1050					1050
1200					1200
1350					1350
1500		CMT Plug 1117-1570			1500
1650					1650
1800					1800
1950					1950
2100					2100
2250					2250
2400					2400
2550					2550
2700					2700
2850					2850
3000				8 5/8" CSG w/ 2,025 sx CMT	3000
3150	3100	Squeezs w/ 70 sx CMT Plug	7 7/8"		3150
3300		2870-3100			3300
3450					3450
3600		Squeeze w/ 45 sx CMT Plug			3600
3750	3800	3640-3800			3750
3900					3900
4050					4050
4200					4200
4350					4350
4500					4500
4650					4650
4800					4800
4950					4950
5100					5100
5250					5250
5400					5400
5550	5625	Squeeze w/ 45 sx CMT Plug			5550
5700	5725	5525-5725			5700
5850					5850
6000					6000
6150					6150
6300					6300
6450					6450
6600					6600
6750					6750
6900					6900
7050					7050
7200					7200
7350					7350
7500					7500
7650					7650
7800		CMT Plug 7470-7850		CIBP @ 7850' w/ 25 sx	7800
7950	Prod Perfs @ 7930-8022				7950
8100	8200	Squeeze w/ 800 sx CMT Plug,		CMT Retainer @ 8170'	8100
8250		TOC @ 7870			8250
8400				TOC @ 8260'	8400
8550					8550
8700					8700
8850					8850
9000					9000
9150					9150
9300					9300
9450					9450
9600					9600
9750					9750
9900					9900
10050					10050
10200					10200
10350					10350
10500					10500
10650					10650
10800					10800
10950					10950
11100					11100
11250				CIBP @ 11,200'	11250
11400	RePerfs 11278-11465				11400
11550	RePerfs 11540-11557			CIBP @ 11,520' w/ 10' CMT	11550
11700	Perfs 11540-11570	Squeeze 75 sx			11700
11775				4 1/2" CSG w/ 850 sx CMT	11775



REMARKS: Current Well Schematic

md \ eng \ drilling \ history \ State 23 A #1 history in schmatic form 130816

08/16/2013

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2700					2700
2850					2850
3000				8 5/8" CSG w/ 2,025 sx CMT	3000
3150			7 7/8"		3150
3300					3300
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4050					4050
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5100					5100
5250					5250
5400					5400
5550					5550
5700					5700
5850					5850
6000					6000
6150					6150
6300					6300
6450					6450
6600					6600
6750					6750
6900					6900
7050					7050
7200					7200
7350					7350
7500					7500
7650					7650
7800	2nd Bone Springs				7800
7950	Prod Perfs @ 7930-8022				7950
8100					8100
8250					8250
8400				TOC @ 8260'	8400
8550					8550
8700					8700
8850	3rd Bone Springs				8850
9000	Prod Perfs @ 8958 – 8970 &				9000
9150	9078 – 9114				9150
9300				CIBP @ 9,250 w/ 35' CMT	9300
9450					9450
9600					9600
9750					9750
9900					9900
10050					10050
10200					10200
10350					10350
10500					10500
10650					10650
10800					10800
10950					10950
11100					11100
11250				CIBP @ 11,200'	11250
11400	RePerfs 11278-11465				11400
11550	RePerfs 11540-11557			CIBP @ 11,520' w/ 10' CMT	11550
11700	Perfs 11540-11570	Squeeze 75 sx			11700
11775				4 1/2" CSG w/ 850 sx CMT	11775

REMARKS: Proposed Well Schematic