

## Shell Federal No. 2 SWD

As Of 1-31-12

GL: 3765.70'; KB: 3781.7'

Operator: **Fasken Oil and Ranch, Ltd.**

Location: 3300' FSL and 660' FWL

Sec 5, T21S, R24

Eddy County, NM

Compl.: 12/10/1978 Rig Released

API #: 30-015-22717

TD: 10020'

Casing: **13-3/8" 54.5# J55 @ 400'**w/400sx Lite w/2%CaCl<sub>2</sub>, 13.6ppg+200 sx "C" w/2%CaCl<sub>2</sub>, 14.8ppg.

TOC surf, cir 201sx

**8-5/8" 32#&24# K55 @ 3000' KB** (btm 628.12' 32#)

w/925 sx Lite, 13.1-13.6 ppg

+200 sx "C" w/2%CaCl<sub>2</sub>, 14.8ppg.

TOC surf, cir 137sx

**5-1/2" 17# L-80, K-55, & J-55 @ +/-10678'****ECP1 10650', DV1 10645.1', ECP2 7028.2', DV2 7023.02'**

First Stage: Set packer and open DV tool, pumped 775 sx Starbond C with 0.5% C-12, 0.55% FL-10, 0.1% C-51, 0.15% C-20, and 0.25% R-38 (s.w. 13.2 ppg, 1.56 yield ft<sup>3</sup>/sx). Final differential pressure 1150 psi @ 3.5 bpm. Full returns throughout. Close lower DV tool, open top DV tool and circulate for 6 hrs. Did not recover any cement from first stage. Plug down @ 6:00 a.m. CST on 1-30-12.

**Wfcmp 7018'**

Second Stage: Pumped 700 sx 35/65 "C" with 1/8# Poly-E-Flake, 0.1% C-20, 0.25% R-38, 1% salt, and 6% gel (s.w. 12.4, yield 2.01 ft<sup>3</sup>/sx), tailed in with 250 sx Class "H" with 0.1% C-20 and 0.25% R-38 (s.w. 15.6 ppg, yield 1.18 ft<sup>3</sup>/sx). Good returns throughout, circulated 120 sx to surface. Final differential pressure 1890 psi, plug down @ 2:00 p.m. CST on 1-30-12.

**Tubing 3-7-12**

1 - 2-7/8"x4' mule shoe fbrgls sub 4.00

1 - 5-1/2"17# NP Arrowset IX 10K pkr

w/wetted IPC parts 7.41

1-2.25"F"SS PMN w/3-1/2" OD TOSSD

'NP w/SS t/sub3-1/2"x2-7/8"f/mSSXO 2.05

325-jt3-1/2"9.3#EUE8rd L80 IPCTK-99

'w/special clearance cplngs 10,602.40

10,615.86

KB 16.00

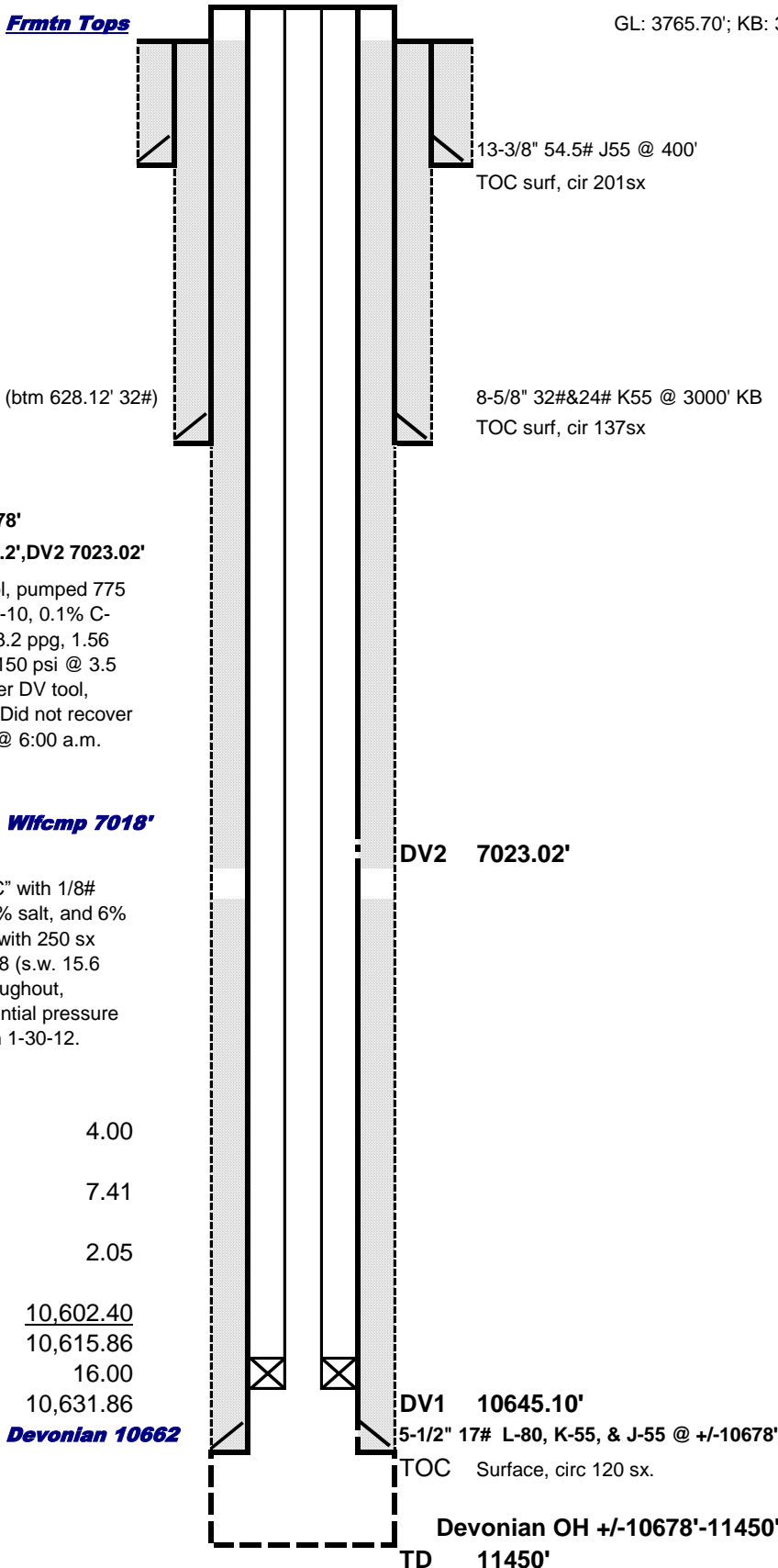
EOT 10,631.86

**Devonian 10662**

## Hole Sizes:

17-1/2" 0-400'; 12-14/" 400-3000' ; 7/7/8" 3000'-10020'

New 7-7/8" 10020'-11450' (OH +/-10250'-11000')

**DV1 10645.10'****5-1/2" 17# L-80, K-55, & J-55 @ +/-10678'**

TOC Surface, circ 120 sx.

**Devonian OH +/-10678'-11450'****TD 11450'**

cwb  
4/5/2022  
ShellFed2 wb diagram

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

DEFINITIONS  
  
Action 95712

DEFINITIONS

Operator:  FASKEN OIL & RANCH LTD 6101 Holiday Hill Rd Midland, TX 79707	OGRID:
	151416
	Action Number:
	95712
Action Type:	
[UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)	

DEFINITIONS

For the sake of brevity and completeness, please allow for the following in all groups of questions and for the rest of this application: <ul style="list-style-type: none"><li>this application's operator, hereinafter "this operator".</li></ul>
This form must be completed as part of OCD's Seismicity Response Protocol and updated after any qualifying event thereafter.
<b>Applicability:</b> This form must be completed for each well classified as an Underground Injection Control (UIC) Class II disposal well or Class II enhanced recovery injection well with active injection authority (wells). "Active injection authority" means a well that is authorized to inject pursuant to an administrative permit or hearing order. This includes wells that have an approved Application for Permit to Drill and have an approved injection permit but have not yet been drilled or commenced injection.

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QUESTIONS

Action 95712

**QUESTIONS**

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	Action Number: 95712
	Action Type: [UF-SA] Seismicity Response Protocol Information (UF-SA-SRPI)

**QUESTIONS**

<b>Prerequisites</b>	
Well	[30-015-22717] SHELL FEDERAL #002

**Seismic Event Information***The source and reference ID is required, if you would like to submit information of a new seismic event.*

Source of information (i.e., USGS, NMTSO, TexNet, other)	USGS
Reference ID from source of information	us 7000gz9h
Magnitude	2.8
Latitude	32.51500
Longitude	-104.44300
Date of occurrence	04/02/2022
Depth of occurrence (kilometers)	1.00

**Injection Order***Please indicate the latest (current) injection order permitting injection for this well.*

Admin Order (SWD-#)	SWD-1252-0 [pUNK1025650566]
Hearing Order (R-#)	Not answered.

**Well Information***The following information is required for each well permitted within a 10-mile proximity of the epicenter.*

Distance from epicenter (miles)	5
Top perforated and/or open-hole interval (vertical depth in feet)	10,622
Bottom perforated and/or open-hole interval (vertical depth in feet)	11,458
Formation(s) completed	Devonian

**Well Information Prior to Injection Volume Reduction***Daily rates and pressures are based on the active injection days during the prior 6-month period.*

Average daily injection rate (BBLS per day), prior to reduction	454
Average injection daily pressure (PSI), prior to reduction	320
Well Type (i.e., Commercial, Lease Only, Single Operator)	Lease

**Well Information After Injection Volume Reduction***The following information is required for each well permitted within a 10-mile proximity of the epicenter.*

Required injection rate reduction percentage (0%, 25%, 50%, Shut-in)	0%
Average daily injection rate (BBLS per day) limit, post reduction	0
Average injection daily pressure (PSI) limit, post reduction	0
Reduction start date	04/02/2022
Reduction achieved date	04/02/2022

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ACKNOWLEDGMENTS

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**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	This operator acknowledges that it must take the appropriate following action(s) as part of its seismic response protocol:
<input checked="" type="checkbox"/>	This operator shall report the daily injection volumes and pressures for each well on a weekly basis on the form prescribed by the OCD. The report is due on the Wednesday the week following the weekly monitoring interval.
<input checked="" type="checkbox"/>	This operator shall start or continue to digitally measure injection volumes and pressures for each well at a minimum of an hourly basis, and shall archive the data and make it available to OCD upon receipt of a written request.
<input checked="" type="checkbox"/>	This operator shall monitor seismicity events with magnitudes equal to or greater than M2.5 within a radius of 10 miles around each well using USGS / NMTSO data, and shall archive the data and make it available to OCD upon receipt of a written request.
<input checked="" type="checkbox"/>	This operator shall notify OCD and provide updated pertinent well information within 24 hours of an event greater than M 2.5 within a radius of 10 miles around each well using this OCD form.
<input checked="" type="checkbox"/>	After each event greater than M 2.5 within a radius of 10 miles around each well, this operator shall inspect well head and well equipment of each well to ensure proper working order. As part of this inspection, Operator should evaluate whether a Bradenhead test or MIT is warranted to ensure wellbore integrity.
<input checked="" type="checkbox"/>	I certify that, after reasonable inquiry and based on the available information at the time of submittal, this Seismic Information Form is true and correct to the best of my knowledge, and I acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

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CONDITIONS

Created By	Condition	Condition Date
aschaefer	Accepted for record	1/6/2023