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Margaret 13 Federal #1 30-015-31730

Procedure:

- 1) Ensure all permits and plug back procedure have been received
- 2) Test anchors if necessary

3) MIRU

- 4) Kill well if necessary.
- 5) Remove wellhead & install BOP.
- 6) Pull tubing and visually inspect. If necessary, utilize workstring
- 7) TIH open ended to 12510'
- 8) Spot Class H cement plug mixed at 16.4 lbs/gal from 12510 12200. (Note: Top of Morrow @ 12287')
- 9) Pull above plug & circulate hole clean
- 10) Perforate Strawn @ 11568-74, 11487-92, 11471-75, 11460-66, 11418-28, 11358-71, 11302-13 w/2 spf, 120° phasing utilizing Halliburton openhole log dated 5/1/02.
- 11) TIH w/tubing & packer. Packer to include on/off & profile nipple.
- 12) Spot acid across perfs. Set packer at 11200'
- 13) Acidize zone with 8000 gallons 15% NE HCl at 3 5 BPM. Drop 100 balls throughout the job. Have 500 psi on backside during job.
- 14) Shut-in 1 hour & flow back
- 15) Swab well if necessary.
- 16) Set plug in packer.
- 17) Get off packer
- 18) Circulate packer fluid
- 19) Latch back onto on/off tool.
- 20) Pressure test the tubing
- 21) Tree up wellhead
- 22) Pull blanking plug
- 23) Place well on test



Depth

710

4,500

12,725

Cmt Sx

700

1600

600

TOC

Surface

Surface

9200'

Author:	Stroup		· .
Well Name	Margaret 13 Fed	Well No.	#1
Field	Lusk	API #:	30-015-31730
County	Eddy	Prop #:	
State	New Mexico	Zone:	Morrow
Date	5/6/2013	•	
ĞĹ	3553'		
GL KB	3570'		

Description	O.D.	Grade	Weight	Depth	Cmt Sx	TOC
Surface Csg	13 3/8	J55	48	710	700	Surface
Inter Csg	8່ 5/8	J55	32	4,500	1600	Surface
Prod Csg	5 1/2	P110	17	12,725	600	9200'
Liner		,				

CURRENT

13-3/8" (J55 - 48#) @ 710' w/700 sx TOC @ surface

DV Tool @ 2474' w/800sx TOC @ Surface

17-1/2" Hole

2-3/8" L80 Tbg - 381 jts

1⁄2 1/4" hole 8-5/8" (J55 - 32#) @ 4500' w/1600 sx TOC @ surface

TOC @ 9200' by CBL

5 1/2" ASI 10K @ 12300' w/???" Profile

Morrow 12377-81, 12404-06, 12409-16, 12411-13, 12421-28, 12449-57

5-1/2" (P110 - 17#) @ 12725' w/600 sx

17.1 ... S. 27.1

7 7/8" hole

'TD @ 12725'

Margaret 13 Federal 1 30-015-31730 COG Operating LLC May 24, 2013 Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed by August 24, 2013.

- 1. The operator shall place a balance neat class H cement plug from 12510'-12200', as proposed by operator, to seal off the Morrow formation. Tag required.
- 2. Must conduct a casing integrity test before perforating and fracturing. Submit results to BLM. The CIT is to be performed on the production casing to max treating pressure. Notify BLM if test fails.
- 3. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
- 4. Surface disturbance beyond the originally approved pad must have prior approval.
- 5. Closed loop system required.
- 6. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
- 7. Operator to have H2S monitoring equipment on location.
- 8. A minimum of a 3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

9. Subsequent sundry required detailing work done and completion report for the new formation. Operator to include new well plat and well bore schematic of current well condition when work is complete.

JAM 052413

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