

EMKEY COMPANIES, LLC.

STILETTO "21" FEDERAL #1 1980' FNL & 760' FEL

SECTION 21 T20S- R25E EDDY CO. NM.

1. Comply with all company , Federal and State environmental , safety and procedural regulations.
2. Load wellbore with 10ppg brine water.
3. MIRU Workover unit , NU BOP'S and function test.
4. Rig up Casing crews, spear 4 ½" casing and lay down 1650' +-.
5. TIH with spear on work string and fish 4 ½" 11.6# N-80 LT&C casing to TOF 2 3/8" tubing at 2601'
6. RIH with overshot and fish 2 3/8" tubing to release from on off tool.
7. Run in hole with spear and fish 4 ½" casing at 3620' and recover.
8. RIH with work string and recover packer at 9196' and POOH.
9. RIH with CICR and set at 9306+ -' and squeeze Lower Morrow Perfs.
10. Pump and tag cement plugs according to proposed wellbore diagram under BLM supervision load hole with 9 PPG minimum mud weight in hole.
11. Cut off surface casing according to BLM/State requirements. Weld on plate and install dry hole marker.
12. Reclaim surface location in accordance with BLM requirements.



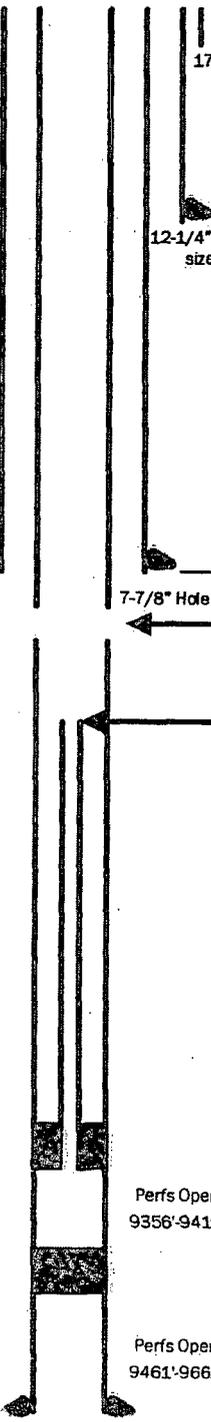
Well Name: Stiletto 21 Federal 1
 Pooling: Cemetary - Morrow
 County/State: Eddy, NM

SHL: 1980' FNL & 760 FEL
 BHL: 1980' FNL & 760 FEL
 LEGAL: SEC 21 T 20S R 25E
 API: 30-015-33096
 Prepared by: Jeremy Christopherson
 UPDATED: 12/08/2014



Wellhead details
 13-3/8" SOW x 13-5/8" 3M
 13-5/8" 3M x 11" 5M
 11" 5M x 7-1/16" 5M

Formation Depths KBTVD (ft)	Hole Size	Casing & Cement Detail
360' TD	17-1/2" Hole size	Cement to Surface 13-3/8" @ 360'
1520' TD	12-1/4" Hole size	Cement to Surface 8-5/8" @ 1520'
	7-7/8" Hole size	4-1/2" 11.6# N-80 LTC parted at 1650' WLM' (12/7/14) 2-3/8" 4.7# N80 8rd EUE parted at 2602.55' tubing measurement (12/4/14)
Atoka 9000'		TOC -6700' 2-3/8" tubing plugged with iron sulfide and fill @ 9145' (8/26/14)
Morrow 9200'		AS1X 10K Packer with on- off tool @ 9196' with .187" PN
		AS1X 10K Packer with blanking plug and sand @ 9430'
Lower Morrow 9550' Barnett Shale 9600' 9,800 TD		4-1/2" 11.6# N80 LTC @ 9,800'





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Formation Depths KBTVD (ft)	Wellhead details 13-3/8" SOW x 13-5/8" 3M 13-5/8" 3M x 11" 5M 11" 5M x 7-1/16" 5M	Hole Size	Casing & Cement Detail
	3' below GL Pump 110 sks, 1.33 yield of Class C Cement w/ 2% CaCl ₂ 14.8 ppg 320'	17-1/2" Hole size	Cement to Surface
360' TD		13-3/8" @ 360'	
		12-1/4" Hole size	Cement to Surface
1520' TD	1470' Pump 35 sks, 1.33 yield of Class C cement w/ 2% CaCl ₂	8-5/8" @ 1520'	
	1570' 2000' Pump 3 x 440 sks, 1.33 yield of Class C cement w/ 2% CaCl ₂ 14.8 ppg 3400' Pump 100 sks, 1.33 yield of Class C cement w/ 2% CaCl ₂	7-7/8" hole	Planned top of 4-1/2" casing recovery 3620'
	3700' 4100' Pump 18 sks, 1.33 yield of Class C cement w/ 1% CaCl ₂ 14.8 ppg 4300'		
	6600' Pump 18 sks, 1.18 yield of Class H cement w/ 1% CaCl ₂ 15.6 ppg 6800'		TOC in 4-1/2" x 7-7/8" annulus @ 6700'
Atoka 9000'	8946' Pump 32 sks, 1.18 yield of neat Class H cement 15.6 ppg 9306' CICR @ 9306'		
Morrow 9200'	Perfs 9356'-9415'		
	Pump 15 sks, 1.18 yield of neat Class H cement 15.6 ppg		ASIX 10K Packer with blanking plug and sand @ 9430'
Lower Morrow 9550'	Perfs		
Barnett Shale 9600'	9461'-9662'		
9,800 TD		4-1/2" 11.6# N80 LTC @ 9,800'	

*CIBP with 35'
 of CMT on top or
 25 sks or 100' of
 CMT Plug*

NEW MEXICO OIL CONSERVATION DIVISION
DISTRICT 2 OFFICE
811 S. FIRST STREET
ARTESIA, NM 88210
(575)748-1283

CONDITIONS OF APPROVAL FOR PLUGGING & ABANDONMENT

Operator: Emkey
Well Name & Number: Stiletto 21 Federal Com #1
API #: 30-015-33096

1. Produced water **will not** be used during any part of the plugging & abandonment operation.
2. Notify NMOCD Dist. 2 office at least 24 hrs before beginning work.
3. Closed Loop System is to be used for entire plugging operation. Upon completion, contents of steel pit are to be hauled to a permitted disposal location.
4. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator, as well as the contractor, to verify that this permit is place prior to performing work. Drivers shall produce a copy upon request of NMOCD Field Inspectors.
5. A subsequent C-103 will serve as notification that the well bore has been plugged ONLY. A C-103 FINAL shall be filed before any bonding can be released on the well. Upon receipt of the Final, an inspection will be performed to verify that the location has been satisfactorily cleaned to NMOCD standards.
6. If work has not begun within 90 days of the approval of this procedure, an extension request must be filed, stating reason that well has not been plugged.
7. Every attempt must be made to clean the well bore out to below the perms, before any plugs can be set, by whatever means possible.
8. Cement Retainers may not be used.

9. Squeeze pressures are not to exceed 500 PSI, unless approval is given by NMOCD.
10. Plugs may be combined after consulting with and getting approval from NMOCD.
11. Minimum WOC time for tag plugs will be 4 Hrs.

DATE: 1/29/2015

APPROVED BY:

A handwritten signature in black ink, appearing to be the initials 'RD'.

GUIDELINES FOR PLUGGING AND ABANDONMENT

DISTRICT II / ARTESIA

- All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater.
- Mud laden fluids must be placed between all cement plugs.
- Mud laden fluids must be mixed at 25 sacks of gel per 100 bbls of water.
- A cement plug is required to be set 50' below and 50' above all casing shoes and casing stub plugs. These plugs must be tagged.
- A CIBP with 35' of cement on top may be set in lieu of 100' cement plug.
- A plug as indicated above must be placed within 100' of top perforation. This plug must be tagged.
- Plugs set below and above salt zones must be tagged.
- No more than 2000' is to be allowed between cement plugs in open hole and no more than 3000' in cased hole.
- DV tools are required to have a 100' cement plug set 50' above and below the tool and must be tagged.

- Formations to be isolated with plugs placed at the top of each formation are:
 - Fusselman
 - Devonian
 - Morrow
 - Wolfcamp
 - Bone Spring
 - Delaware
 - Any Salt Section (Plug at top and bottom)
 - Abo
 - Glorieta
 - Yates (this plus is usually at base of salt section)

- If cement does not exist behind casing strings at recommended formation depths, the casing must be cut and pulled with plugs set at these depths or casing must be perforated and cement squeezed behind casing at the formation depths.
- In the R-111-P area (Potash Mine area) a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts common to the section penetrated and in suitable proportions, but not more than a 3% calcium chloride by weight of cement will be considered the desired mixture whenever possible (50' below and 50' above).