Form 3160-5
(September 2001)

OCD-HOBBS

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD

FORM APPROVED
OM B No 1004-0135
Expires. January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS

AUG 20 2012

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

RECEIVED

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

5 Lease Serial No.
LC-069048

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1 Type of Well
☑ Oil Well ☐ ☐ ☐ Gas Well ☐ ☐ ☐ Other

8. Well Name and No.
Wylie Federal #1

2 Name of Operator **SandRidge Expl. & Prod., LLC**

9 API Well No.
30-025-07896

3a Address
123 Robert S. Kerr Ave., Oklahoma City, OK 73102

3b. Phone No *(include area code)*
405-429-6518

10. Field and Pool, or Exploratory Area
Littman San Andres

4 Location of Well *(Footage, Sec , T., R., M , or Survey Description)*
Unit N, 990' FSL & 330' FEL
Section 9 T21S R38E

11 County or Parish, State
Lea Co., NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☑ Acidize	☑ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No on file with BLM/BIA Required subsequent reports shall be filed within 30 days following completion of the involved operations If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection)

SandRidge Expl. & Prod., LLC respectfully request the right to deepen and acidize the Wylie Federal #1. Please see attached recompletion procedure.

Best Regards.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)*
Spence Laird

Title **Regulatory Analyst**

Signature Spence Laird

Date **05/24/2012**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved by

Title

Date
AUG 16 2012

Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

WESLEY W. INGRAM
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001 and Title 43 U S C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

AUG 21 2012

Well name: **Wylie Federal #1**

Field	Tex-Mex
State, County	New Mexico,Lea
Location.	Sec 9, T21S, R38E
TD	4,360'
PBTD	4,360'
TOC	TOC @ 2050'
KB	3,581'
GL	3,566'
Wellhead	Larkin Head
Misc info	6 125" Open Hole from 4321' to 4360'
	BHT 103 °F at 4341'

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Highlighted items not for 7" 20#

Engineer in Charge: Torrey Wetsel Office. 405-429-6429, Cell 405-365-6529, twetsel@sandridgeenergy.com

CSG	OD	ID	Drift	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SZE	DEPTH	SXS	Burst	Collapse
Surface	8 625"	8 097"	7 972"	J-55	ST&C	24 00#	0'	00'	38	12 250"	1616'	150	2,950	1,370
Prod	7 000"	4 892"	4 767"	J-55	LT&C	20#/23#	0'	4,321'	171	7 875"	4321'	200	4,360	6,290
Open Hole	6 125"	-	-	-	-	-	4321"	4360'	-	-	4360'	--	-	-
Production Tubing	2 375"	2 441"	2 347"	J-55	EUE	4 70#	0'	4,306'	220	-	-	-	7,699	7,680

80% of 7" casing burst: **3,488 psig** 70% = 2618 psi 0.02
80% of 2-3/8" tubing: **6,159 psig**
80% of 2-7/8" N-80 Workstring: **8,453 psig**

PURPOSE: The purpose of this recompletion procedure is to deepen the open hole section of San Andres 300 ft. to 400 ft. from 4360' to ~ 4760'.

LOG INFORMATION

OPEN HOLE LOGS None
CASED HOLE LOGS. **None**
CORRELATION. None

SAN ANDRES DEEPEN & RECOMPLETION

1 MIRU flow/swab testing tank and hard-line to the wellhead ND wellhead

2 MIRU WSU POOH AND LD rods and pump. ND wellhead NU stripping head.

3 NU 5000 psi hydraulic BOP (2-3/8" pipe rams on top and blind rams on bottom).

4 POOH and LD 2-3/8" 4 7 ppf J-55 EUE production tubing Visually inspect tubing while POOH ND stripping head

5. MIRU Drilling Rig w/ Foamed Air Unit POOH AND LD rods and pump NU flow cross and circulation pits

6 MI & talley ~4800' of new 2-7/8" 6 5 #/ft, J55 EUE 8rd tubing (must be cleaned & inspected). Tubing will be used as production tubing once dee operations are complete.

7 PU & RIH with 6-1/8" Tri-Cone-Center Jet-Rock Bit, bit sub, 6 - 4-3/4" drill collars and 2-7/8" 6 5 #/ft J55 tubing to bottom of 7" casing shoe @ (Install 2-String Floats in tubing & 3-check valves w/ "weep" holes plus 1- JU Stripper Rubber)

8 RU Foamed Air Unit, Reverse Unit with pump & pit system PU power swivel and establish circulation down tubing with foamed 2% KCL water corrosion inhibitor as needed to protect casing and tubulars) If unable to establish circulation, contact operations engineer in OKC office.

9 Clean out 6-1/4" Open Hole section from 7" csg shoe @ 4321' to TD @ ~4360'. Drill additional **San Andres open hole** from 4360' to ~ 4760' Circulate hole clean. TOOH laying down bit, bit sub,drill collars and SB WS.

10) PU and TIH w/ the following tubing and BHA assembly (see attached schematic):

a. Halliburton 4' perforated sub with Bull Plug
b 3 jts 2 7/8" 6.5#, J-55, EUE tubing + 1 ~15' sub of 2 7/8" 6 5#, J-55, EUE tubing.
c Halliburton BASS tool #1 in closed position (ID = 1.562" for 1-5/8" ball).
d 3 jts 2 7/8" 6 5#, J-55, EUE tubing + 1 ~15' sub of 2 7/8" 6 5#, J-55, EUE tubing
e. Halliburton BASS tool #2 in closed position (ID = 1.687" for 1-3/4" ball)

f. 3 jts 2 7/8" 6.5#, J-55, EUE tubing + 1 ~15' sub of 2 7/8" 6.5#, J-55, EUE tubing.
g. Halliburton BASS tool #3 in closed position (ID = 1 812" for 1-7/8" ball)
h. 3 jts 2 7/8" 6 5#, J-55, EUE tubing + 1 ~15' sub of 2 7/8" 6.5#, J-55, EUE tubing.
i Halliburton BASS tool #4 in closed position (ID = 1.937" for 2" ball).
j ~12 jts 2 7/8" tubing
k 5 1/2" Halliburton PLT packer w/ XL On-Off tool.
l ~ 131 joints 2-7/8" tubing to surface

Space out BASS tools evenly across the vertical section with Perf sub @ ~4760', BASS tool # 1 @ ~4660', BASS tool #2 @~4560', BASS tool #3 @ ~4460', BASS tool #4 @ ~4360' and PLT packer @ ~4310' (just above 7" casing shoe). Depths may be adjusted to space out according to well-plan provided by Halliburton.

11) Set PLT Packer MIRU pump truck Tie onto Tubing casing annulus and pressure test packer and casing to 3,000 psig. Bleed off pressure and release packer. MI, set and load 2 lined acid tanks with 25,000 gals 20% NE-Fe HCl The night before pumping the job, MI hot oiler and heat acid to 140 deg F.

12) MIRU Halliburton stimulation crew. Hold PJSM and pressure test lines to 5500 psig. Establish circulation down tubing with 2% KCL Once circulation is established, pump ~14 bbls Halliburton Chemical packer and displace into annulus with 30 bbls 2% KCL Set PLT packer. Confirm volumes with service company. Catch sample of chemical packer and place in heat bath Tie pumps onto tubing-casing annulus and pressure test to 500 psig. Leave pressure on backside and monitor throughout the job Allow at least 1 hour for chemical packer to set. Confirm that sample in the heat bath has set up before proceeding. Acid frac San Andres OH (~4,321'- 4760' OA) down 2 7/8" tbg with 25,000 gals 20% NE-Fe HCL as per attached recommendation at 18 BPM or max lower rate without exceeding a treating pressure of 5000 psig. RDMO Halliburton stimulation crew.

a. Frac interval per attached pump schedule
b. All gelled 20% NE-Fe HCl to contain corrosion inhibitor designed to inhibit acid for 24 hours at 101 deg F, non-ionic surfactant, clay stabilizer and 20 ppt gelling agent (See service company for additive volumes).
c. Monitor pressures while dropping balls and pump at no more than 5 BPM until ball is landed and sleeve is opened.
d. *Monitor annular pressure during job. Record ISIP, and 5, 10, and 15 min SIPs. SI for at least 2* hours to allow gel to break, acid to spend, and chemical packer to dissolve

13) NU ball catcher Open well on 16/64" choke to swab tank and flow well back until FTP is 0 psig. Release packer. TOH with tubing, packer and BHA. SB tubing and LD packer and BASS tools. PU and TIH w/ 6-1/8" bit, bit sub and 2 7/8" tubing and DO/CO to TD at ~ 4721'. Attempt to circulate hole clean with 2% KCL. TOH to bottom of 7" casing shoe at 4,321'. RIH w/ swab and swab well until fluids are clean. TOH w/ tubing, bit sub and bit.

14) PU and TIH with the following tubing assembly: (Same as previously pulled)

a. 4 1/2" slotted joint Gas Anchor w/ bull plug on bottom
b. 2-7/8" x 4-1/2" change over
c. 2-7/8" seat nipple
d. 4 joints 2-7/8" tubing
d 2-7/8" x 5-1/2" TAC
e ~130 jts 2-7/8" tubing to surface.

Set bottom of 4 1/2" Gas Anchor at ~ 4315' (6' above 7" csg shoe) Set TAC at ~4160' w/ SN at ~4282' and EOT at ~ 4,315'. *ND Stripping head, BOP, and flange. NU WH. Set TAC w/ 16 points tension Flange up WH*

15) PU and RIH w/ the following pumping assembly (Same as previously pulled)

a 14' x 1-1/4" gas anchor w/ 124 - 1/4" diamter holes on bottom
b. Exchanged 2-1/2" x 1-3/4" x 24' RHBC pump
c. 1 stabilizer bar
d. 11 - 1-1/2" Grade "C" SBs alternated w/ 5 stabilizer bars
e. 8 - 3/4" D90 rods.
f 77 - 7/8" D90 rods
g 71 - 1" D90 rods
h Ponies as needed and PR w/ PRL

Space out and seat pump. Load and test tubing and hang well on. Start pumping unit with a 144" stroke length (middle hole) at 8 SPM and check pump action. RDMO WSU. **NOTE: This PU and rod design will move 334 BFPD w/ a 144" stroke length at 8 SPM w/ 85% pump fillage at pumped off conditions (see attached XROD design).**

16) Put well on production and report to OKC daily for 10 days Well to be tested daily for 10 days after first oil production then at least weekly for one month.

WELLBORE SCHEMATIC

CURRENT

GL 3566'
KB 3581'

WELL NAME	Wylie Federal #1	SPOT	990 FSL, 330 FEL	OPERATOR	Sandridge Energy	SPUD DATE	07/26/53
API NO	30-025-07896	LOCATION	Sec 9, T21S, R36E	ZONE	San Andres	RR DATE	
WI	100 00000%	FIELD	Tex-Mex	ELEVATION	3 566'	MICU	
RI	83 00000%	COUNTY	Lea	TD	4,360'	COMPL DATE	09/19/53
Corp ID	119833	STATE	New Mexico	PBTD	4,360'	AFE NO	

PIPE RECORD

CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS
Conductor	14 000"	N 80	ST&C	72 00#	00'	80'	1
Surface	8 625"	J-55	ST&C	24 00#	00'	1,616'	38
Prod	7 000"	J 55	LT&C	20#/23#	00'	4,321'	171
Tbg	2 375"	J-55	EUE	4 70#		4 306'	220

CEMENT & HOLE DATA

BIT SZE	DEPTH	SXS	TYPE	TOC
NA	80'	NA	NA	Surface
12.250"	1,616'	150	Neat	Surface
7 875"	4,321'	200	Neat 4321 4360' is OH	Est TOC @ 2050'
	4,306'			

Well tools

WELL HISTORY

DATE	WORK DETAIL	PROD RESULTS
02/21/12	Pulled polish rod, parted 7/8" rod stuck IH Pmpd hot wtr dn backside SDFN	
02/22/12	POH w/ rods SDFN Prep to TOH w/ tbg	
02/23/12	TOH w/ 51 jts 2-3/8" tbg Rplc'd bull nipple & tbg head NU BOP SDFN	
02/24/12	Assembled bailer and RIH w/tbg SN @4310',tagged up @4348 then cleaned dn to TD 4360',well has 8'fill cleaned out to there COOH w/tools,SI/well to test in morning SDON	
02/25/12	Tstd tbg in hole w/62 jts, test bar getting stuck Rig tester dn RIH w/remaining tbg HWO tbg,,drop standing valve,,tested good to 600# fish standing vav ,pumped chemical treatment SI/ shut dn till Monday	
02/27/12	Swabbed well Made 5 runs, rec'd 5 bbls dirty water RIH w/ pmp & rods SDFN	
02/28/12	RIH w/ rods Good pmp action RTP SDFN Will RDMO WSU in AM	
04/12/12	Well would not sustain production with no further utility Changes to inactive status.	

Rod Detail (Mar '10)

1 250 /16' polish rod
8', 6 , 2' subs,
93 3/4 ' rods
65 3/4 ' rods
5 sinker bars

1 616'

Est TOC @ 2050'

Crimped pipe @ 2351-2382', swedged out to 6-3/16"

Drilling Notations

Stimulation Treatment

Date	Zone	Sand (klbs)	Fluid (bbls)	Total Fluid Type (Pad/Prepad/Frac/Flush)	Prop Type	AIR(bpm)/ AIP(psig)	Frac Grad/ ISIP
?	SA	10K	71	Acid	Sand		
2/10/06	SA		143	Acid			

PERFORATION HISTORY

DATE	TOP	BTM	ZONE	SPF(count)/ Phasing	Status
	4,321'	4 360'	San Andres	OH	Open

Frac Job Remarks (Screenouts or problems in Frac job)

CIBP Record

Date	Depth	Type	Date Removed	Notes

Remarks

Downhole Jewelry

Length	Depth	Description

TUBULAR GOODS PERFORMANCE

Material (Halliburton Handbook)	ID (in)	Drift (in)	Collapse* (psi)	Burst* (psi)	Tensile* (Klbs)
8 625" J-55 ST&C 24#	8 097	7 972	1,370	2,950	244,000
7" J-55 LT&C 20#/23##	4 892	4 767	6,290	4,360	397,000
2 375" J-55 EUE 4 7#	2 441	2 347	7,680	7,260	99 660

* Safety Factor Not Included

SN @ 4290'
EOT @ 4306'

7" @ 4321'
OH San Andres 4321-4360'

TD 4360'

REMARKS

(Open 6-1/4" hole from 4321-4360')

Packer Detail

ENGINEER	Torrey Wetsel	
GEOLOGIST		
LANDMAN		
PREPARED BY	Julie Finley	
PREPARED DATE	5/15/2012	UPDATED
UPDATED		UPDATED
UPDATED		UPDATED

SandRidge ENERGY

Wylie Federal 31
San Andres (4321' - 4721') Pump Schdule
Lea County, New Mexico

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Stage 1 ... San Andres Interval

Stage	#	Fluid Type	Stage Clean Vol (Gals)	Stage Clean Vol (Bbls)	Cum Clean Vol (bbls)	Total Rate BPM	Stage Prop #'s	*Prop Total #"s*	Prop Type	*BH Conc PPG*	*Clean Fluid Stage Vol (bbls)*	*Clean Fluid Total Vol (bbls)*	*Cum Time Mins*
Pre-Pad	1	2% KCL w/ 55 gals SI	1,500	35 7	35 7	18	0			*0.00*	*35.7*	*35 7*	1 98
Pad	2	30# LG	3,000	71 4	107 1	18	0	-		*0.00*	*71.4*	*107 1*	5 95
Acid	3	20% gelled NE-Fe HCl Acid	2,500	59 5	166 7	18	0	-		*0.00*	*59.5*	*166.7*	9 26
Pad	4	30# LG	2,500	59 5	226 2	18	0	-		*0.00*	*59.5*	*226.2*	12 57
Acid	5	20% gelled NE-Fe HCl Acid	2,500	59 5	285 7	18	0	-		*0.00*	*59.5*	*285 7*	15 87
Flush	6	2% KCL	3,000	71 4	357 1	18	0	-		*0.00*	*71.4*	*357.1*	19 84
Ball # 1	7	2% KCL	1,194	28 4	385 6	5	0	-		*0.00*	*28.4*	*385.6*	25 53
Pre-Pad	8	2% KCL w/ 55 gals SI	1,500	35 7	421 3	18	0			*0.00*	*35.7*	*421.3*	27 51
Pad	9	30# LG	3,000	71 4	492 7	18	0	-		*0.00*	*71.4*	*492.7*	31 48
Acid	10	20% gelled NE-Fe HCl Acid	2,500	59 5	552 2	18	0	-		*0.00*	*59.5*	*552.2*	34 79
Pad	11	30# LG	2,500	59 5	611 8	18	0	-		*0.00*	*59.5*	*611 8*	38 09
Acid	12	20% gelled NE-Fe HCl Acid	2,500	59 5	671 3	18	0	-		*0.00*	*59.5*	*671 3*	41 40
Flush	13	2% KCL	3,000	71 4	742 7	18	0	-		*0.00*	*71.4*	*742.7*	45 37
Ball # 2	14	2% KCL	1,166	27 8	770 5	5	0	-		*0.00*	*27.8*	*770.5*	50 92
Pre-Pad	15	20% KCL w/ 55 gals SI	1,500	35 7	806 2	18	0			*0.00*	*35.7*	*806.2*	52 90
Pad	16	30# LG	3,000	71 4	877 6	18	0	-		*0.00*	*71 4*	*877.6*	56 87
Acid	17	20% gelled NE-Fe HCl Acid	2,500	59 5	937 1	18	0	-		*0.00*	*59.5*	*937.1*	60 18
Pad	18	30# LG	2,500	59 5	996 7	18	0	-		*0.00*	*59.5*	*996.7*	63 49
Acid	19	20% gelled NE-Fe HCl Acid	2,500	59 5	1056 2	18	0	-		*0.00*	*59.5*	*1056.2*	66 79
Flush	20	2% KCL	3,000	71 4	1127 6	18	0	-		*0.00*	*71.4*	*1127.6*	70 76
Ball # 3	21	2% KCL	1,137	27 1	1154 7	5	0	-		*0.00*	*27.1*	*1154.7*	76 18
Pre-Pad	22	2% KCL w/ 55 gals SI	1,500	35 7	1190 4	18	0			*0.00*	*35.7*	*1190.4*	78 16
Pad	23	30# LG	3,000	71 4	1261 8	18	0	-		*0.00*	*71.4*	*1261.8*	82 13
Acid	24	20% gelled NE-Fe HCl Acid	2,500	59 5	1321 4	18	0	-		*0.00*	*59 5*	*1321.4*	85 44
Pad	25	30# LG	2,500	59 5	1380 9	18	0	-		*0.00*	*59.5*	*1380 9*	88 74
Acid	26	20% gelled NE-Fe HCl Acid	2,500	59 5	1440 4	18	0	-		*0.00*	*59.5*	*1440.4*	92 05
Flush	27	2% KCL	3,000	71 4	1511 8	18	0	-		*0.00*	*71.4*	*1511.8*	96 02
Ball # 4	28	2% KCL	1,109	26 4	1538 2	5	0	-		*0.00*	*26.4*	*1538.2*	101 30
Pre-Pad	29	2% KCL w/ 55 gals SI	1,500	35 7	1574 0	18	0			*0.00*	*35.7*	*1574.0*	103 28
Pad	30	30# LG	3,000	71 4	1645 4	18	0	-		*0.00*	*71.4*	*1645.4*	107 25
Acid	31	20% gelled NE-Fe HCl Acid	2,500	59 5	1704 9	18	0	-		*0.00*	*59.5*	*1704.9*	110 56
Pad	32	30# LG	2,500	59 5	1764 4	18	0	-		*0.00*	*59.5*	*1764 4*	113 86
Acid	33	20% gelled NE-Fe HCl Acid	2,500	59 5	1824 0	18	0	-		*0 00*	*59.5*	*1824.0*	117 17
Flush	34	2% KCL	3,000	71 4	1895 4	18	0	-		*0 00*	*71.4*	*1895.4*	121 14

7 in. Casing Shoe: 4321'
Vertical Open Hole Section. 4321' to ~ 4760'
Bass Tools:

Pad % 58%
Prop Conc -

Max Pressure = 5000 psig
Anticipated treating pressures = 2,800 psig
HHP = 2200 (liquid side w/o backup)
Ramped Proppant injection.

Fluid Requirements

1 Frac fluid to have minimum temp of ~ 70° F 12 hours prior to treatment
2 BHT = 103° F (BHP Survey)
3 Est FG = 0 65 psi/ft
5 Recommended live breaker (1-2 gpt)
6 All fresh water will be treated with biocide and crystalline KCl to achieve a minimum of 2% KCl by volume
7 All 20% NE-Fe HCl to contain corrosion inhibitor designed to inhibit acid for 24 hours at 103 deg F, non-ionic surfactant, clay stabilizer and 20 ppt gelling agent (See service company for additive volumes)
8 Stage 1, 8, 15, 22, and 29 to contain 55 gals of Champion Gyptron T-249 (or equivalent) Scale Inhibitor

Operational Considerations

1 Frac Tanks = 3 filled with treated water
2 2 lined acid tanks filled with 25,000 gals 20% NE-Fe HCl total
3 Heat acid to 140 deg F the night before the job
4 Slow rate to drop balls Watch pressures after dropping balls and SD if necessary to stay below max pressure
5 Flush volumes to be determined on location pending BASS tool depths

Conditions of Approval

SandRidge Expl. & Prod., LLC
Wylie Federal #1
API 30-025-07896
August 16, 2012

1. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 4300' or below to top of cement. CBL shall be reviewed before continuing with procedure. The CFO BLM on call engineer may be reached at 575-706-2779.**
2. ***Surface disturbance beyond the existing pad shall have prior approval. May be needed due to air unit – no rig schematic attached.***
3. **In addition to the equipment already specified elsewhere in Onshore Order 2, the following equipment shall be in place and operational during air/gas drilling:**
   - **Properly lubricated and maintained rotating head**
   - **Spark arresters on engines or water cooled exhaust**
   - **Blooie line discharge 100 feet from well bore and securely anchored**
   - **Straight run on blooie line unless otherwise approved**
   - **Deduster equipment**
   - **All cuttings and circulating medium shall be directed into a reserve or blooie pit**
   - **Float valve above bit**
   - **Automatic igniter or continuous pilot light on the blooie line**
   - **Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore**
   - **Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits**
4. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
5. Functional H_2S monitoring equipment shall be on location.
6. A minimum 2000 (2M) BOPE 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 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 1, 2M 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.

7. All waste (i.e. 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.

Procedure modifications:

8. **Operator's step 11 – pressure test shall not exceed 2600 psi. The casing is 7" 20#, which would be a J-55 grade. Onshore Order 2 maximum allowed pressure is 70% of burst. For this casing, that calculates to 2618 psi. Test shall be charted and witnessed by BLM PET. At least 24 hours before the test contact: Andy Cortez acortez@blm.gov, (phone 575-393-3612 or 575-631-5801). If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. Note the contact notification method, time, & date in your subsequent report. Include a copy of the chart in the subsequent sundry for this workover.**
9. **Operator shall perform an independent 72 hour well test to verify that the well can produce in paying quantities.**

10. Submit a (Sundry Form 3160-5) subsequent report (daily reports) describing all wellbore activity and Mechanical Integrity Test. Include the date(s) of the well work and the setting depths of equipment. List (by date) descriptions of daily activity of any previously unreported wellbore workover.
11. Workover approval is good for 90 days (completion to be within 90 days of approval). A detailed justification is necessary for an extension of that date.

Access information for **use of Form 3160-5** "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.