Submit 1 Copy To Appropriate District BS OCD State of New Mexico Office, District I - (575) 393-6161 Energy, Minerals and Natural Resources 1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283 811 S. First St., Artesia, NM 88210 District III - (505) 334-6178 District III - (505) 334-6178 1000 Rio Brazos Rd Aztec, NM 87410 1220 South St. Francis Dr. State of New Mexico Revised August 1 30-025-06792 5. Indicate Type of Lease STATE FEE	, 2011
1625 N. French Dr., Hobbs, NM 88240 District II – (575) 748-1283 NAR 2 6 2013 OUR GOLVERDALL BY VICENIA (1987)	
District II = (5/2) /48-1283	
811 S. First St. Artesia NM 88210 WIFE OIL CONSERVATION DIVISION	
District III – (505) 334-6178 District III – (505) 334-6178 5. Indicate Type of Lease	
	-
<u>District IV</u> = (505) 476-3460 Santa Fe, NM 8/505 6. State Oil & Gas Lease No.	I
87505	
SUNDRY NOTICES AND REPORTS ON WELLS 7. Lease Name or Unit Agreement N	me
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A S.J. SARKEYS 26	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well Gas Well Other 8. Well Number 2	
2. Name of Operator 9. OGRID Number 4323	
CHEVRON U.S.A. INC.	
3. Address of Operator 10. Pool name or Wildcat	
15 SMITH ROAD, MIDLAND, TEXAS 79705 PENROSE SKELLY	
4. Well Location	1
Unit Letter D: 660 feet from the NORTH line and 660 feet from the WEST line	
Section 26 Township 21-S Range 37-E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.)	. 8
	1.1
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASIN TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. P AND A PULL OR ALTER CASING MULTIPLE COMPL CASING/CEMENT JOB OTHER: INTENT TO ACIDIZE & SCALE SQUEEZE, SWAB OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimat of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. CHEVRON U.S.A. INC. INTENDS TO ACIDIZE, SWAB, & SCALE SQUEEZE THE SUBJECT WELL. PLEASE FIND ATTACHED, THE INTENDED PROCEDURE, WELLBORE DIAGRAM, & C-144 INFORMATION.	
Spud Date: Rig Release Date:	
I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
A series of the series and the series and the series of th	
SIGNATURE WES / W Hordon TITLE: REGULATORY SPECIALIST DATE: 03-22-2013	
Type or print name: DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375	
APPROVED BY TOWN TITLE DEST MGZ DATES-28-2	0/3
Conditions of Approval (it any):	



Workover/ Completion Program

Well:

S J SARKEYS 26 #2

03.08.2013

Reservoir:

Penrose Skelly- Grayburg

Surface Location:

D-26-21S-37E

660 FNL 660 FWL

GPS (NAD27) – (Long, Lat):

N 32° 27' 19.008", W -103° 8' 23.316" (NAD27)

Job:

Sonic Hammer Acidize, Swab & Scale Squeeze

PREWORK:

- 1. Utilize the rig move check list.
- 2. Check anchors and verify that pull test has been completed in the last 24 months.
- 3. Ensure location of & distance to power lines is in accordance with MCA SWP. Complete and electrical variance and electrical variance RUMS if necessary.
- Ensure that location is of adequate build and construction.
- 5. Ensure that elevators and other lifting equipment are inspected. Calliper all lifting equipment at the beginning of each day or when sizes change.
- When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
- 7. For wells to be worked on or drilled in an H₂S field/area, include the anticipated maximum amount of H₂S that an individual could be exposed to along with the ROE calculations for 100 ppm and 500 ppm.

Procedure:

This procedure is meant to be followed. It is up to the WSM, Remedial Engineer and Production Engineer to make the decisions necessary to do SAFELY what is best for the well. In the extent that this procedure does not reflect actual operations, please contact RE, PE and Superintendent for MOC

- 1. Verify that well does not have pressure or flow. If the well has pressure, note tubing and casing pressures on WellView report. Bleed down well; if necessary, kill with cut brine fluid (8.6 ppg).
- 2. MI & RU workover unit.
- 3. Unseat pump, POOH with rods and pump. Examine rods for wear/pitting/paraffin. Do not hot water unless necessary. ND wellhead, unset TAC, NU BOP. POOH and LD 1 jt. PU 5 1/2" packer along with a joint of tubing and set ~ @ 25', test BOP pipe rams to 250 psi/1000 psi. Note testing pressures on WellView report. Release and LD packer.
- 4. PU 1 joints of tubing and tag for fill (TAC 3622-25', Top Perfs: 3,674', Bottom Perfs 3,876', EOT 4,007', PBTD 5,425'). Do not push TAC into perfs. POOH while scanning 2 7/8" prod tubing. LD all non-yellow band joints.

If fill is tagged:

- A. Above 4,050' contact remedial engineer and verify if the clean out is necessary. If so, continue with foam/air clean out per step 5.
- B. Below 4,050' clean out not needed, skip step 5.

Note: Strap pipe out of the hole to verify depths and note them on Wellview report.

Send scan log report to drillin@chevron.com (Jonathan Paschel).

- 5. PU and RIH with 4 $\frac{3}{4}$ MT bit, four (3 $\frac{1}{2}$) drill collars on 2 $\frac{7}{8}$ 6.5# L-80 WS. RU power swivel and clean out to 4,040' with foam/air unit (continue to supplemental procedure and in accordance with attached SOG). POOH with 2 ⁷/₈" WS and bit. LD bit & BHA.
- 6. Contact sonic tool rep to be on site during job. Verify that WS is clean, inspect for excessive rust. PU and RIH with Sonic Hammer tool, seat nipple, and work string to 3,880' or enough to cover the bottom perforations with a whole stand. Hydrotest tubing to 5,000 psi. Stand back tubing to top perforations. Install stripper head and stand pipe with sufficient treating line to move tools vertically ~ 65'. Rig up pressure gauges to allow monitoring of tubing and casing pressures.
- 7. MI & RU Petroplex and pressure test surface lines. Titrate acids and verify concentration (HCI ±1.5%) report results in daily work summary. If well will circulate proceed to step 7.b).
 - a) Sonic Hammer for non circulating wells. Treat all 5 intervals from 3.670' to 3.880' with the following procedure from the top interval to the bottom interval. Shut in the annulus. Do not exceed 5.000 psi tubing pressure.
 - While reciprocating over the perf interval, pump 30 bbls of cut brine, followed by 15% NEFE HCL, and then flush tubing with cut brine pumping at 5 BPM. Repeat with all intervals listed in Table A using the acid volumes listed for each interval.

Interval Depth Interval (Ft.) Acid Volume (gal) 1 3670' - 3707' 37 1.000 2 3707' - 3737' 30 900 3 3755' - 3796' 41 1.000 4 3796' - 3842' 1,100 46 5 3842' - 3880' 38 1.000 5.000

Table A: Perforation Intervals for acid.

- ii) R/D Petroplex Acidizing, drop Sonic Hammer circulating port opening ball, shut in well for 1 hr for the acid to spend.
 - If WSM believes that the formation may take longer to spend the acid, wait until appropriate to open circulating ports and attempt swabbing.
- iii) Pressure up the tubing to ~2000 psi to open the sonic hammer tool circulating port.
- iv) R/U swab equipment and swab well back to flowback tank until the load is recovered or returns are produced fluid and no longer spent acid.
- v) R/D swab equipment and POOH w/ tubing to top perf.
- vi) Pump 40 bbls cut brine mixed w/ 3 drums Baker SCW-358 scale inhibitor down the tubing through the circulating ports on the Sonic Hammer at a max rate of 5 bpm. Displace scale squeeze w/ 110 bbls of cut brine.
- vii) TOOH w/ sonic hammer. Proceed to step 8.
- b) Sonic Hammer treatment w/ a circulating well.
 - Treat interval #1 (referring to Table A) with 30 bbls of cut brine. Pump down Sonic Hammer tool at 5 BPM while reciprocating tool across intervals. Do not exceed 5,000 psi tubing pressure. Leave annulus open in circulation mode while treating.
 - Pick up enough pipe to reach the next interval and repeat step 7.b)i) until all intervals are washed.

Table B: Perforation Intervals for acid.

Table B: Perforation intervals for acid.								
Interval	Depth	Interval (Ft.)	Acid Volume (gal)					
1	3670' - 3707'	37	1,000					
2	3707' - 3737'	30	900					
3	3755' - 3796'	41	1,000					
4	3796' - 3842'	46	1,100					
5	3842' - 3880'	38	1,000					
			5,000					

- iii) Starting at interval #5 fill tubing w/ acid and shut in backside. Pump the volume of acid specified in Table A at 5 BPM reciprocating over the perf interval. Flush tubing with cut brine. Casing pressure should not exceed 500 psi. If necessary, bleed off or slow pumping rate.
- iv) TOOH w/ tubing to the next interval and repeat step 7.b)iii) acidizing each interval according to Table A.
- v) Shut in well for 1 hr for the acid to spend. Monitor casing pressure to keep it below 500 psi. Bleed off excess pressure if necessary.
- vi) Kill well and POOH Sonic Hammer Tool and WS. LD Sonic Hammer.
- vii) PU & RIH with 5 1/2" packer and WS. Set treating packer at 3630', above the top perf.
- viii) RU swab crew and flowback tank.
- ix) Swab well until returns indicate formation fluid and not spent acid, or fluid level drops enough to make swabbing non productive.
- x) Pump 40 bbls cut brine mixed with 3 drums of scale inhibitor (165 gals) Baker SCW-358 Scale Inhibitor Chemical down the packer. Pump at a max rate of 5 BPM.
- xi) Displace scale squeeze with 110 bbls of cut brine.
- xii) Do not exceed 500 psi casing pressure or 5 BPM while pumping scale squeeze or casing flush. Shut in well overnight.
- xiii) Release packer. POOH packer and WS. LD 2 ⁷/₈" WS and packer.
- RIH with 2 ⁷/₈" production tubing hydrotesting to 5,000 psi. Set TAC per ALCR recommendation. ND BOP. NU WH. RIH with rods and pump per ALCR. Hang well on. RD and release workover unit.
- 9. Turn well over to production.

FOAM / AIR CLEANOUT PROCEDURE

- This procedure is an addition to the original procedure.
 - Install flowback manifold with two chokes. All components on flowback manifold must be rated to at least 5,000 psi. If possible, flowback manifold components should be hydrotested before delivery. Hardline pipes from 2" casing valve to manifold to half pit with gas buster.
 - 2. Install flowback tank downwind from rig.
 - 3. Position Air unit upwind from Rig next to water tanks. Have vacuum truck on standby to empty halfpit. (if needed)
 - 4. RIH with 4 3 /₄" MT bit, four (3 ½") drill collars on 2 7 /₈" 6.5# L-80 WS.
 - NU stripper head with <u>NO Outlets</u> (Check stripper cap for thread type course threads preferred). Stripper head to be stump tested to 1,000 psi before being delivered to rig. Check chart or test at rig.
 - RU foam air unit. Make quality foam on surface before going down hole with foam/air. Install flapper float at surface before beginning to pump. Break circulation with foam/air. Evacuate fluid from well.

Pump high quality foam at all times. Do not pump dry air at any time. Fluid injection rates will generally be above 12 gallons per minute

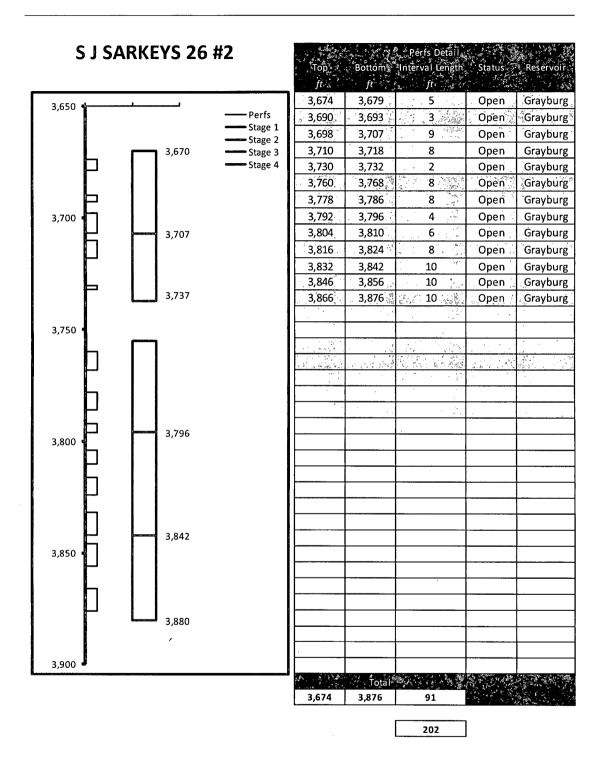
Whenever there is pressure on the stripper head, have a dedicated person continuously monitor pressure at choke manifold and have a dedicated person at accumulator ready to close annular BOP in case stripper leaks. Do not allow pressure on stripper head to exceed 500 psi. If pressure cannot be controlled below 500 psi, stop pumping, close BOP and bleed off pressure.

- 7. Clean out fill to 4,040' with low RPM's rotation and circulation, always keep pipe moving. Short trips can be beneficial to hole cleaning. Circulate well clean for at least 1 hour at the end of the day and pull up above the perforations before shut down for night. If the foam/air unit goes down, pull above the perforations.
- 8. When tripping out of hole, have special float bleed off tool available to relieve trapped pressure below float.

Ensure that high quality, stiff foam is pumped while circulating the fill. Stiff foam is required to prevent segregation while circulating. Monitor flow and pressures carefully when cleaning out

Before rigging up power swivel to rotate, carefully inspect Kelly hose to ensure that it is in good condition. Ensure that swivel packing is in good condition.

Continue on with original procedure for completion.



D-237E 315 ND 660:1

S J SARKEYS 26 #2 (Wellbore Diagram)

Eunice FMT - Penrose Skelly Field

- Well Data							Casing and Liner Data								
	Well Type			/ell #	API No. 30-025-06792	Reservoir	Size	(iņ)	Wt (lb/ft)	Gra	ide	Top	Botte MD ft	om 1 TVD-ft	гос
Fire	Oil t Complete	ıd	-	KEYS 26 #2 Center	30-025-06792 Chevron Ref. No.	Grayburg WBS #		3/ ₈	36			MD-ft 8	MD- ft 290		culated
	25-Sep-47			494200	FA7889	UWDPS-R3059	11	5/8	32	H-	40	8	2799		?
	Back-Depti			epth - (ft)	Production Method	Status		1/2	17	J:		8	6559	11 241.61	?
	029' (Cmt.			603 760' FNL & 198	Rod Pump	Online	ECRY	D	数数学 ンプラ	- (36.08 5.0	. ∜ ∵,Tu!	bing Data ₩ Bott		4/1/15/19 May 1	W. A. Ja.
, jA," 1	Field			760' FNL & 198	State	Township	Size (in)	Wt (lb/ft)	Grade	Conn	Top (ft)	MD (ft)	om TVD (fi)	Comment	ts
Pe	nrose Skell	у		Lea	New Mexico	218					 		T		
	Range			ection	GPS (NAD27) -										
	37E	14. ¹⁴		26 lead and Tree Da	N 32° 27' 19.008", W	-103" 8' 23.316"									
Ite	<u> </u>		aker	Type	Size (in) Part No.	Rating (psi)									

						90									
MDBRT	TVDBRT							Min ID	Max OD	Drift					
. (ft)	: (ft)	<u> </u>	Well Sc	hematic		Description		(7)	£ (°)	(") .	Length	80 1 18	Comme	nts	<u>.: </u>
		W	发发	1220											
290		2	式 類	188	Hole Size	e: 17 ¹ / ₄ ", 13 ³ / ₈ ", 3	6#,								
			19151		(300	sks- Circulated)									
2799					Hole Size: 1	1", 8 ⁵ / ₈ ", 32#, H-4	0 Csq	7.921	9.625	7.796	2791				
	İ					w/ 1400 sks	ŭ			·	,	Tubing Data			-1-25
								ID 2.441	OD 2 7/8	Drift 2.347	Length 3295	J-55 6.5# T&C Exte	Description mal Upset (8'-3303	3')	105
					64. 64.			2.441	2 7/8	2.347		J-55 6.5# T&C Exte			10
					VI Addison			2.441	27/8	2.347	3	J-55 6.5# T&C Extended Tbg Anchor/Catche	r - 2 ⁷ / ₈ - (3622'-36	25')	1
	1		3					2.441	27/8 27/8	2.347	248	J-55 6.5# T&C Exte	mal Upset(3625'-3	873')	8
3650						rforation (8 hole - 3		2.441 2.441	2 /8	2.347 2.347	12	J-55 6.50# T&C Ext	ernal Upset-IPC-Ti	K-99 (3906'- 3918')	1
					Returns to surf	ace but no cmt -12	/14/2006	2,441	27/8	2.347		Seat Nipple- Heavy I J-55 6.5# T&C Exte			1
					Perfs:	Zone	Status				20	Cavins Desander 2	7/ ₈ "x20" D-2707 GF	PC(3923'- 3943')	1
	İ				3674 -3679 3690 -3693	Grayburg Grayburg	Open Open	2.441	2 1/8	2.347		J-55 6.5# T&C Exte Cavins Dump Valve			1
					3698 -3707	Grayburg	Open			diam'r.		Rod Data	20		
					3710 -3718 3730 -3732	Grayburg Grayburg	Open Open	- ID	11/2	Drift	Length 26	Polished Rod Spray)	1 1
	ļ				3760 -3768 3778 -3786	Grayburg Grayburg	Open Open		7/8 7/8		6 6	Rod Sub (s) (34'-40 Rod Sub (s) (40'-46			1
			3		3792 -3796	Grayburg	Open		7/8		6	Rod Sub (s) (46'-52	9		1
			<u> </u>	TN	3804 -3810 3816 -3824	Grayburg Grayburg	Open Open		7/a 11/2		3525 300	⁷ / ₈ in x 25 Rod (52'- 1 ¹ / ₂ " x 25 Sinker B			14
	i		#	7 # 1	3832 -3842	Grayburg	Open		7/6		4) 7/8* Guided Sub V	V/3/4" pins, W/3 Guide	
					3846 -3856 3866 -3876	Grayburg Grayburg	Open Open	1 75		1	4	Rod Pump (insert	(3877-3881) (Non Serialized) 2	5-175-RHBC-4-24-0-	
4007 4010			亚阜		E	end of Tubing Inforation (8 hole - 1	1 -	1.75	-	ļ	4	20	(Bore=1.75) (3881 -	3905)	
				1		culated -12/12/200									
			[2]												
5425					5425-542	9 CIBP- Unknown	Cmt								
	İ		120	143		rforation Data									
			Ä	73	Perfs: 5519'-5529'	Zone Blinebry	Status Open				 	2spf			
			K	34	5532'-5551'	Blinebry	Open					2spf			
	1		Tä		5554'-5558' 5742'-5749'	Blinebry Blinebry	Open Open		-	 		2spf			
			1.	33	5766'-5771' 5782'-5789'	Blinebry Blinebry	Open Open					1, 3/g" Jet Shot			
			В	TMT	5807-5814'	Blinebry	Open		-			1, 18 351 31101			
					5822'	Blinebry	Open			ļ				V	······
	į			₹.											
6275			K and	N N		top of CIBP (6275	5'-6310')		1						
6310				\leq	CIB	P (6310' - 6314')								based on the mo	ost
6320					Raker Ma	del D Prk (6320'-63	323")						rmation regard on and equipm	ding wellbore rent that could b	be
0320	-				Pe	rforation Data						found in the	Midland Offi	ce well files and	d
			FA	764	Perfs; 6416'-6480'	Zone Drinkard	Status							f the update dat	
6505	l		13			top of CIBP (6505	65201							the hole with the eld Office. Discu	
6520					(652	20' - 6524') CIBP	-0020)					w/WE0 Eng	jineer, WO Re	p, OS, ALS, & FS	prior
			PV	1	Perfs:	rforation Data Zone	Status							rding any hazar	ds or
			F-07	The last	6532'-6554'	Drinkard						unknown is	eznez bettainii	ng to the well.	
			12			1									
6559	}		Z	A	5 ¹ / ₂ *, 17#,	J-55 Csg set w/50	00 sks	4.892	7.656	4.767		Hole Size: 7 7/8			
							. 3				į				
	į				(6559 - 6600	3) Open Hole Size:	4 3/4".					44 ft Open Hole			
6603						TD									

Dunnan	ed by:	1 8 1	Pras	sanna Kumar Ch	andran	Checked	i By:		* .	¥ 21.		** ** ** * * * * * * * * * * * * * * *	7-Ma	r-13 Ve	rsion:

H₂S Radius of Exposure Calculations

Expected H₂S ROE that could be incountered while working on a well

Example: 100 PPM ROE = 0.001589* 250 PPM* 275 MCF ^0.6258 = 19 FEET Example: 500 PPM ROE = 0.0004546* 250 PPM* 275 MCF ^0.6258 = 9 FEET

Well:	S J SARKEYS	26 #2					
Enter H2S Concentration:	4,100	PPM	0.41 % H2S				
Enter Max. Escape Volume:	200	MCF/D	200,000 CF/D				
100 PPM Radius of Exposure:	89	Feet (only for H2S	concentrations less than 10%)				
500 PPM Radius of Exposure:	41	Feet (only for H2S	concentrations less than 10%)				
H2S in lbs/day:	74	lb/day					
H2S in lbs/hr:	3.1	lb/hr					
SO2 in lbs/hr:	5.8	lb./hr					
SO2 in 2000-lb tons/day:	0.07	tons/day					
SO2 in 2000-lb tons/yr:	25	tons/yr					
These radius of exposures are possible only if the well bore is evacuated of fluid and there is an							

uncontrolled release of gas at the surface.