Submit 1 Copy To Appropriate District	State of New Me	xico		Form C-103
Office <u>District I</u> - (575) 393-6161	Energy, Minerals and Natu	ral Resources		Revised August 1, 2011
1625 N. Erench Dr., Hobbs, NM 88240 District II – (575) 748-1283			WELL API 30-025-3376	
811 S. First St., Artesia, NM 88210	OIL CONSERVATION 1220 South St. Fran	DIVISION		Гуре of Lease
<u>District III</u> – (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410			STAT	FEE
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 87	NOV 17 2014	6. State Oil	& Gas Lease No.
87505		NOV	· · · · · · · · · · · · · · · · · · ·	
SUNDRY NOTIO	CES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLU		7. Lease Na	me or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR. USE "APPLIC	ATION FOR PERMIT" (FORM C-101) FC	DR SUCRECEIVE	WEST VAG	CUUM UNIT
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🗍 Other		8. Well Nur	
2. Name of Operator	<u>.</u>		9. OGRID I	Number 4323
CHEVRON U.S.A. INC. 3. Address of Operator			10. Pool na	me or Wildcat
15 SMITH ROAD, MIDLAND, TI	EXAS 79705			GRAYBURG SAN ANDRES
4. Well Location			<u> </u>	
Unit Letter: F 2550 fe	et from the NORTH line and 137	5 feet from the WI	EST line	
Section 34 T	ownship 17S Range 3			County LEA
	11. Elevation (Show whether DR,	RKB, RT, GR, etc.)		
L	L			<u></u>
12. Check A	ppropriate Box to Indicate N	ature of Notice,	Report or O	other Data
NOTICE OF IN	TENTION TO:	SUB:	SEQUENT	REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI		P AND A
PULL OR ALTER CASING	MULTIPLE COMPL		JOB	
				,
OTHER: INTENT TO ADD PERF		OTHER		
	eted operations. (Clearly state all p			
proposed completion or rec	rk). SEE RULE 19.15.7.14 NMAC ompletion.	2. For Muniple Con	npietions: At	tach wendore diagram of
CHEVRON U.S.A. INC. INTENDS	TO ADD PERFORATIONS IN TH	HE SAN ANDRES	& ACIDIZE	
			,	
PLEASE FIND ATTACHED, THE	INTENDED PROCEDURE AND	WELLBORE DIAG	RAM.	
DURING THIS PROCESS, WE PLA		SYSTEM WITH A	STEEL TAN	IK AND HAUL TO THE
REQUIRED DISPOSAL, PER THE	OCD RULE 19.15.17.			
]
Spud Date:	Rig Release Da	ate:		(
I hereby certify that the information	above is true and complete to the be	est of my knowledge	e and belief.	
\sim	list inton)			
SIGNATURE XMSel	TITLE	: REGULATORY	SPECIALIST	DATE: 11/14/2014
Type or print name: DENISE PINKI	ERTON E-mail address	s: leakejd@chevron	<u></u>	PHONE: 432-687-7375
For State Use Only		Luca Enginee	T	Inter
APPROVED BY: Conditions of Approval (if any):	TITLE Pe	troleum Enginee		
Conditions of reprival (it ally).				Å ¢~

APPROVED BY:	19 100
Conditions of App	

DATE 11/18/19 NOV 19 2011

WVU #62 Wellbore Diagram

Created:	09/23/08	By:	JSS
Updated:	09/23/08	By:	JSS
Lease:	Vacuum Gra	yburg San Andr	es Unit
Field:	same		
Surf. Loc.:	2550' FNL, 1375' FWL		
Bot. Loc.:			
County:	Lea	St.:	NM
Status	Active Oil Well		

Surface	Casing

A Commence

.

Size:	8 5/8*
Wt., Grd.:	24# WC-50
Depth:	1565'
Sxs Cmt:	550
Circulate:	yes
TOC:	surface
Hole Size:	11

Production Casing

Size:	5 1/2*
Wt., Grd.:	15.5# WC-50
Depth:	4880
Sxs Cmt:	1370
Circulate:	no
TOC:	
Hole Size:	7 7/8*

Perforations:

4198-4202, 4464-80, 4564-94, 4686-90', 4756-72, 82-96, w/2 JSPF (168 holes) 7/19/97. 3850-4873' w/4 JSPF 4/16/97.

Tubing and Packer Detail: 2 7/8* TBG. @ 4113',





-_

KB:	4051'
DF:	4050'
GL:	4038'
Ini. Spud:	03/27/97
Ini. Comp.:	04/16/97

Perf. and Stimulation History: <u>WVU #62</u> 4/16/97 Perf. w/4 JSPF from 4564-4636'. 4/18/97 Frac: Perfs. w/175 bbls 40# x-linked gel pad. Pumped 60 bbls 40# x-linked gel containing 3 PPG 16/30 Resin coated sand. Pumped 55 bbls 40# x-linked gel-5 PPG 16/30 Resin coated sand. Sanded out w/260# cond is formation & 7000# cond is the out w/2500# sand in formation & 7000# sand in tbg. Max.=8100#.

7/3/97 Perf. w/2 JSPF from 4198-4796'. Acidize perfs. 4886-4796' w/6000 gals 15% NEFE in 3 stages using 500# RS. Flush w/30 bbls 2% KCL fresh water. Max.=4000#. Min.=3187#. ISIP=3000#. 15

Max.=4000#. Min.=3187#.ISIP=3000#. 15 minutes=2820#. Air=3.1 bpm. Reset RBP @ 4521'. Acidize perts. 4564-4594' w/6000 gals 15% NEFE in 3 stages using RS. Flush w/30 bbls 2% KCL fresh water. Max.=3000#. Min.=2130#. ISIP=1900#. 15 minutes=1050#. Air=2 bpm. Reset RBP @ 4521 & pkr. @ 4143' Acidize perts. 4198-4480' w/4000 gals 15% NEFE.

- - -

and institute

ines's

	U.S.A. IIIC. WEIL		·
Lease: OVC VACUUM FMT	Well No.: WVU 62 VGSA 62		
Location: 2550FNL1375FWL	Sec.: N/A	Blk:	Survey: N/A
	Refno: B09651	API: 3002533766	Cost Center: UCT495100
Section: E034	Township: 34 S		Range: S017 E
Current Status: ACTIVE		Dead Man Ancho	s Test Date: 09/16/2013
Directions:			
4884 4718 4552 4386 4221 4055 3758 2045 1205 570 0 4894 4718 4552 4386 4221 4055 3758 570 0	Tubing String Quantity (Top 1 @(13-17) J-55 2.875 OD/ 127 @(17-4130) J-55 2.875 1 @(4130-4131) Seat Nipple 1 @(4131-4132) Drain Valve 1 @(4132-4136) J-55 2.875 1 @(41432-4136) J-55 2.875 1 @(4145-4168) ESP Pamp 1 @(4165-4168) ESP Gable - #4 1 @(14180-4187) ESP Motor 1 @(0-4159) ESP Cable - #4 1 @(0-4159) ESP Cable - #4 1 @(13-1565) Wellbore Hole C @(13-1565) Wellbore Hole C @(13-1565) Unknown 8.629 Production Casing (Top-Bottom @(13-1565) Unknown 8.629 Production Casing (Top-Bottom @(13-1565) Unknown 8.629 Production Casing (Top-Bottom @(13-1860) Unknown 5.500 @(14198-4796) Producing In @(1498-4796) Perforations @(4464-4480) Perforations @(4756-4772) Perforations @(4782-4796) Perforations @(4782-4796) Perforations @(4879-4879) Plug	6.40# T&C External Ups OD/ 6.40# T&C External or Heavy Duty (2,875) Cu OD/ 6.40# T&C External (Non-Serialized/Centrilift)- eparator (Non-Serialized/Centrilift)- Pothead - Bare- (Non-Serialized/Centrilift) 4 Flat- hole Sensor (Non-Serialized/Centrilift) 5 OD/ 24.00# Round Short tom Depth) Desc DD-11.0000- 5 OD/ 24.00# Round Short tom Depth) Desc e OD- 7.8750- 0 OD/ 15.00# Round Short terval- Grayburg San Andres- Grayburg San Andres- Stal Depth - N/A-	Upset 2.441 ID 2.347 p Type- Upset 2.441 ID 2.347 Centrillift)- - ed/Generic) - Bare- t 8.097 ID 7.972 Drift- t 4.974 ID 4.849 Drift-
Ground Elevation (MSL): 4038.0			ompl. Date: 07/19/1997
Well Depth Datum: Kelly Bushing			prrection Factor: 13.00
Last Updated by: efuk Date: 07/30/2014			

file:///C:/Users/efuk/AppData/Local/Temp/cswebpane/printable.htm

11. A.

7/30/2014

an i shirt a marta a

•

سي سيد موجد عصمه دم در



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>B09651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron-Midcontificent, L:P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: EFUK 9/30/14

Chevron USA Inc. Mid-Continent Business Unit



WORKOVER PROCEDURE

West Vacuum Unit #62 Class 1 Well Work – Perforate and Acid Stimulate

Title	Name	Signature	Date
Workover Engineer	Evan Asire		
Production Engineer	Cody Baca		



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>BO9651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron Midcontinent, L.P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: <u>EFUK 9/30/14</u>

The purpose of this project is to perforate and acid stimulate in the Grayburg and San Andres. This procedure is meant to be a guide only. It is up to the WSM, Workover Engineer and Production Engineer to make the decisions necessary to safely do what is best for the well.

Contacts:

Tubing:

Remedial Engineer Production Engineer D&C Supt. D&C Team Lead ALCR Peak Packers Petroplex Acidizing Baker Petrolite GE Evan Asire Cody Baca Victor Bajomo Kyle Olree Danny Acosta Nathan Dustin Anderson Tim Gray Jarron Marshall 432-687-7784 / 432-301-2067 432-687-7462 / 432-557-9324 432-687-7953 / 432-202-3767 432-687-7422 / 307-922-3098 575-631-9033 432-631-4431 432-631-5183 575-910-9390 903-245-6715

Casing Information:

Surface Casing:	8-5/8" 24# WC-50 set at 1565' with TOC at surface
Production Casing:	5-1/2" 15.5# WC-50 from ? - 4880' with TOC at ?
-	Production casing shoe at 4880'.

Tubing and ESP Information:

1 pup jt 2-7/8" 6.5# EUE J-55 127 jts 2-7/8" 6.5# EUE J-55 SN (Cup Type) 2-7/8" EUE Drain Valve 2-7/8" EUE PUMP FLEX 10 63 Stages 4" PUMP FLEX 10 79 Stages 4" GAS SEP/ INTAKE 4" SEAL'ER EHL 3PFS 4" SEAL'ER SSCV SB 4" MOTOR, 450 MPS, 54 HP, 890 V, 39 AMPS 4" CENTINEL 3.75" set at **4193.47**'

Current Perforations:

Grayburg:	4198-4202', 4464-4480',
San Andres:	4564-4636', 4686-4690', 4756-4772', 4782-4796'

Well Work History:

03/23/97:	Spud well
4/16/97-4/20/97:	Schlumberger perforated w/ 4 JSPF from 4564-4636'. Frac perfs w/ 175 bbls 40#
	X-linked gel pad. Pumped 60 bbls 40# X-linked gel containing 3 PPG 16/30 resin
	coated sand. Pumped 55 bbls 40# X-linked gel - 5 PPG resin coated sand.
	Sanded out w/2500# sand in formation & 7000# sand in tbg, Max.= 8100#. Clean
	out frac with CT and acidize perfs with 15% acid pumping at 2 BPM. Flowed for 6
	hours and recovered 6 oil, 280 water.
7/3/97-7/25/97:	Schlumberger perforated w/ 2 JSPF from 4198-4202', 4464-4480', 4564-4594',
	4686-4690', 4756-4772', 4782-4796'. Acidize perfs 4686-4796' w/6000 gal 15%
	NEFE in 3 stages using 500# RS. Flush w/30 bbls 2% KCI FW. Acidize perfs



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>BO9651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron Midcontinent, L.P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: <u>EFUK 9/30/14</u>

4564-4594' w/6000 gal 15% NEFE in 3 stages using RS. Flush w/30 bbls 2% KCI FW. Acidize perfs 4198-4480' w/4000 gal 15% NEFE. FINAL TEST (7/25/97): 75 oil, 808 water, 24 gas.

و - 25 مائانگاه ساروی الأسیان است. ساله اختراره از استاد از استان



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>BO9651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron Midcontinent, L.P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: EFUK 9/30/14

Pre-work:

- 1. Utilize the rig move check list and complete electric line route survey with FMT.
- 2. Check anchors and verify that a pull test has been completed in the last 24 months.
- 3. Ensure location of & distance to power lines is in accordance with MCBU SWP. Complete an electrical variance and RUMS if necessary.
- 4. 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.
- 6. When NU anything over and open wellhead (EPA, etc.) ensure the hole is covered to avoid dropping anything downhole.
- 7. Review H2S calculation radius of exposure.
- 8. Review JSA and identify hazards with crew. Visually inspect wellhead, casing, and tubing valves. Decide whether tubing and casing valves can be used or replaced as needed. Isolate hazardous energy. Bleed down well as necessary.
- 9. Any equipment installed at the wellhead (ID) is to be visually inspected by the WSM to insure that no foreign debris or other restrictions are present.
- 10. If wireline is to be used (I.e. perforating guns, collar locator, or logging tools) tools need to be callipered and reported on the daily WellView report.

Procedure:

- 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 brine.
- 2. MIRU pulling unit and associated surface equipment.
- 3. Bleed off casing pressure to tank; if casing is flowing liquid, pump known weight fluid down casing, shut in for 30 mins, calculate KWM and pump to kill well.
- 4. ND Wellhead. NU Chevron Class III configured 7-1/16" 5M remotely-operated hydraulicallycontrolled BOP with 2-7/8" pipe rams over blind rams. NU EPA pan.
 - > Keep the charted test of the BOP supplied by the vendor for the entire job.

Caliper elevators and tubular EACH DAY prior to handling tubing/tools. Note in JSA when and what items are callipered within the task step that includes that work.

- 5. RU Floor and TOH w/ 1 jt 2-7/8" tubing. Cut and band cable. PU 5-1/2" PKR rated for 15.5# casing. TIH and set PKR at+/- 25'; test BOPE to **250/500** psi. Note testing pressures in Wellview. Release and LD packer.
- 6. RU tubing scanners and spooler.



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>BO9651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron Midcontinent, L.P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: <u>EFUK 9/30/14</u>

7. TOH w/ 2-7/8" production tubing and ESP equipment. Keep Yellow tubing only (25% wall loss or less). Lay down production BHA.

Tally and strap production string out of the hole to verify depths/equipment and note them in WellView. Send tubing scan report to EAUI@chevron.com.

- 8. MIUL and strap 2-7/8" 6.5# L-80 tubing as workstring.
- 9. PU 4-3/4" milltooth bit and TIH on 2-7/8" 6.5# L-80 workstring. Clean out fill to PBTD 4879'.
- 10. Circulate clean and TOH with cleanout string.
- MIRU wireline unit. Establish exclusion zone around WL unit and radio silence on location. Post signs to notify personnel arriving on location to turn off devices. RU and test lubricator to 1000 psi.
- 12. RIH with 3-1/8" HP Slick Guns with 3 SPF and perforate new San Andres perforations 4830-4851'. Tie into Schlumberger's Compensated Neutron Three Detector Density log dated 04/02/1997 (tie in strip included).
- 13. POH with perforating guns and ensure all charges fired properly. RDMO wireline unit.
- 14. MIRU hydrotesters.
- 15. TIH with 5-1/2" Arrow-Set 1-X 10K packer and on/off tool with frac-hardened 2.25" "F" profile nipple on 2-7/8" 6.5# L-80 workstring. Hydrotest tubing to 7,000 psi below slips while TIH.
- 16. Set packer at ~4364'. Pressure 2-7/8" x 5-1/2" annulus to 500 psi to test casing integrity and packer seal. Bleed down backside after pressure test.
- 17. MIRU Petroplex acidizers. Establish exclusion zone around pumping equipment and treatment iron. Install Petroplex plug valve to tubing. Pressure test surface lines and plug valve to 7000 psi and set mechanical pop-offs to 6000 psi. Load backside and hold 300 psi to monitor.
- Acidize Grayburg and San Andres perfs from 4,464 4,851' with 10,725 gal 15% HCL using Petroplex recommendations. Divert using 8-9,000# rock salt. Pump acid at 8-10 BPM. Max Pressure = 5,000 psi. Displace acid with FW to bottom perf at 4,851'. Monitor casing pressure for communication around packer.
- 19. Shut in and record ISIP. Record SIP's at 5, 10, and 15 minutes. RD and release Petroplex.
- 20. Leave well shut in and allow acid to spend for two (2) hours.
- 21. Open well and flow back / swab back spent acid to an open tank. Recover 100% of load if possible or swab until returns indicate formation fluid. Report number of runs, oil cut recovered, fluid volumes, and fluid levels. Note: test reactivity of recovered acid load while swabbing. If acid is not spent, leave well SI additional time as required.



West Vacuum Unit #62 Add Perfs & Stimulate ChevNo: <u>BO9651</u> API #:<u>30-025-33766</u> Operator: <u>Chevron Midcontinent, L.P.</u> Location: <u>Vacuum</u> County: <u>Lea</u> Spud: <u>3/27/1997</u> Completion: <u>4/16/1997</u> Updated: EFUK 9/30/14

Before/During swabbing operations: Inspect sandline to be sure it's free of excessive rust, bird's nests, frays, kinks, knots, etc.

- 22. Release PKR and allow time for well to stablilize.
- 23. TOH with 2-7/8" WS, O/O tool, & PKR.
- 24. Pick up notch collar and TIH to PBTD 4879'. Wash to PBTD if needed to clean out any remaining salt. Circulate 1 bottom's up or more until returns are clean.
- 25. TOH laying down 2-7/8" workstring and notch collar.
- 26. Rig up Spooler. PU and TIH with 2-7/8" production tubing & ESP equipment as per ALCR recommendation. Replace tubing as needed.
- 27. Monitor well for 30 minutes for flow prior to ND BOPE.
- 28. Install QCI tubing hanger. Land Tubing.
- 29. ND BOPE. NU and install WH adapter flange. Install wellhead connections.

Contact appropriate field specialist to remove LOTO locks.

- 30. Clean location of materials, equipment, trash, and all outer miscellaneous items.
- 31. Notify ALCR and production engineer when workover is complete. Complete Wellwork Transfer of Ownership form and send to ALCR, Operations Manager, and Workover Engineer.
- 32. Rig down and move off pulling unit & equipment & associated equipment.
- 33. Note in Wellview on time log ****Final Report****
- 34. Turn well over to production.

References:

a. 14

SOP-W003 – Workover and Completion Barrier Standards

Channa	West Vacuum Unit #62	
Chevron	Add Perfs & Stimulate	
	ChevNo: <u>BO9651</u> API #: <u>30-025-33766</u>	
لو کې کې	Operator: Chevron Midcontinent, L.P.	
	Location: Vacuum County: Lea	
	Spud: 3/27/1997 Completion: 4/16/1997	
the second se	Updated: EFUK 9/30/14	

STANDARD GUIDELINES

Maximum Anticipated H2S Exposures (RRC H9 / NM Rule 36)

All personnel on location must be made aware of each of the following values (values vary by field):

Maximum anticipated amount of H2S that an individual could be exposed to is 0 ppm at the maximum anticipated escape volume (of wellbore gas) of 0 MCF/D 100 ppm Radius of Exposure is 43 feet. 500 ppm Radius of Exposure is 19 feet.

Elevators

At every tubing size change, the elevators must be calipered and all lifting equipment must be visually inspected for the correct sizing, and rechecked daily. The elevators must also be checked for proper sizing by placing a pony sub in the elevators. Prior to picking up power swivel, caliper and visually inspect elevators and bail on swivel. Checks are to be documented in the JSA and elevator log.

ND/NU

Prior to N/D, N/U operations, if only one mechanical barrier to flow will be in place, visual monitoring of well condition by the WSM is necessary for 30 minutes or more to ensure that the well is static <u>before</u> removing or replacing well control equipment. For all deviations to 2B policy, check that MOC for exemption from 2B policy is in place and applicable. During ND/NU operations with only one barrier to flow in-place, constant visual monitoring of well condition <u>during ND/NU</u> by the WSM is necessary.

Installed Equipment

Any and all equipment installed at the surface on the wellbore is to be visually inspected (internally) by the WSM prior to N/U to the wellhead by the service provider to ensure no debris or other potential restrictions are present. During any NU ops over an open wellhead (BOP, EPA, etc.), ensure the hole is covered to avoid dropping anything downhole.

Hazard ID

Identify hazards with the crew as they come up during the job. Stop and review and discuss JSAs.

Scale and Paraffin Samples

When removing rods and/or tubing from a well, collect samples of any paraffin and/or scale. When drilling, note, report and sample significant returns of scale or paraffin, or anything other significant returns. Assume that samples that come from different areas/environments in the well are different and require a different sample; e.g. top/bottom of well, inside outside of tubing. Always collect enough sets of samples for both Production and D&C Chemical Reps. Send any samples to Chemical Reps., both for

1) Production (many times Baker), as well as for

2) D&C (many times PetroPlex).

Discuss D&C's Chemical Rep's recommendations with Engineering, or simply implement as practical.



Trapped Pressure

Recognize whether the possibility of trapped pressure exists, check for possible obstructions by:

- Pumping through the fish/tubular this is not guaranteed with an old fish as the possibility of a hole above the obstruction could yield inconclusive results
- Dummy run make a dummy run through the fish/tubular with sandline, slickline, e-line or rods to verify no obstruction. If unable to verify that there is no obstruction above the connection to be broken, or if there is an obstruction:
- Hot Tap at the connection to check for pressure and bleed off
- Observe and watch for signs / indicators of pressure as connection is being broken. Use mud bucket (with seals removed) and clear all non-essential personnel from the floor.

Wireline

For all wireline and slickline jobs (except in new, cemented, tested and unperforated casing) install wireline packoff and lubricator. Follow Standard Guideline for installing equipment over wellhead. Test to 250 psi on the low end, and test on the high end based on SITP or max anticipated pressure. Establish exclusion zone around wellhead area. Observe and enforce radio silence as needed for explosives. All wireline tools are to be calipered and documented on a diagram prior to PU and RIH. This is critical information in the event of fishing operations.



Petroplex

P.O. Box 60365 Midland, Texas 79711 Office: (432) 563-1299 Fax: (432) 561-9454 Mobile: (432) 631-5183 E-Mail: dustin@petroplex.com Web: www.petroplex.com

Chevron WVU 62 Procedure prepared for Cody Baca Prepared on July 31, 2014

Wellbore Description

Tubing = 2 7/8 6.50#

Casing = 5 1/2" 15.00#

Packer setting = +/- 4,364

Perforations totaling 143 net foot

Production intervals	Beginning	End	Feet	SPF	Total Shots
Existing Perforations	4,464	4,480	16	0	0
	4,564	4,636	72	0	0
	4,686	4,690	4	0	0
	4,756	4,772	16	Ö	0
	4,782	4,796	14	0	0
New Perforations	4,830	4,851	21	0	0
	Total net fee	t	143	Total Sho	ts O

PBTD = 4,879

County = Lea

Bottom hole temperature estimate = 118

Factors for Job

المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع

		Gallons Per	Feet Per	Barrels Per	Feet Per Barrel
Item	Size/Weight	Foot	Gallon	Foot	
Work string tubing	2 7/8 6.50#	0.2431	4.1134	0.0058	172.7645
Production Casing	5 1/2 15.00#	1.0094	0.9907	0.024	41.61

Acid Stage Fluid Description 10,725 gallons of 15% HCL

I-8, Acid Corrosion Inhibitor		2	Gallons Per Thousand
FEDX, Iron Reducing Agent	=	5	Gallons Per Thousand
FEBX, Iron Reducing Agent Activator	=	2	Gallons Per Thousand
FE/AS-2X, Anti-Sludge Acid System	=	12	Gallons Per Thousand
FeGreen, Iron sulfide dispersant	=	3	Gallons Per Thousand

Block Materials

Medium grade rock salt = 10,000 pounds. Petroplex will only charge for what is used.

Flush Fluid Description

2% KCL or Fresh Water for acid job = +/- 47 Barrels including 10 barrels of over flush

Block Fluid Description

10# brine = +/- 120 Barrels

Pumping Requirements

Rate = 8 to 10 BPM Maximum Pressure = 5,000 PSI

Customer To Provide

Flush Fluid for Acid job= +/- 47 barrels of fresh water or 2% KCL
Brine water = +/- 120 barrels
Fluid for pressure and rate establishment = +/- 10 barrels
Fluid for loading the casing (will be determined on location)
1 lined frac tanks loaded with 140 barrels of fresh water

2

Procedure for acid job

1

- Step 1. Arrive on location perform safety meeting, job scope, and review JSA.
- Step 2. Verify treating packer setting at +/- 4,364 Ft.
- Step 3. Rig up to casing. Fill casing and test to +/- 500 PSI. Monitor during job.
- Step 4. Rig up to tubing. Set pop-off valve, and test lines to 6,500 PSI.
- Step 5. Establish pumping rate and pressure with fresh water.
- Step 6. Begin pumping 42 barrels of acid
- Step 7. Begin pumping +/- 1,000 pounds of medium grade rock salt
- Step 8. Begin pumping 42 barrels of acid
- Step 9. Begin pumping +/- 1,000 pounds of medium grade rock salt (May adjust according to first block stage)
- Step 10. Begin pumping 42 barrels of acid
- Step 11. Begin pumping +/- 1,000 pounds of medium grade rock salt (May adjust according to second block stage.)
- Step 12. Begin pumping 42 barrels of acid
- Step 13. Begin pumping +/- 1,000 pounds of medium grade rock sal (May adjust according to third block stage)
- Step 14. Begin pumping 42 barrels of acid
- Step 15. Begin pumping +/- 1,000 pounds of medium grade rock salt (May adjust according to fourth block stage.)
- Step 16. Begin pumping final acid stage of +/- 45 barrels
- Step 17. Begin pumping flush stage of 47 barrels
- Step 18. Shut down and record SIP, and ISIP at 5 min, 10 min, and 15 min intervals.
- Step 19. Rig down Petroplex and clean up location.
- Step 20. Allow acid to spend for 2 hours and flow or swab back load