	HOBBS, NEW MEXIC	Form Approved. Budget Bureau No. 42
	UNITED STATES TOBBS, NEW MEXIC	5. TEASE
	DEPARTMENT OF THE INTERIOR	LCCJL(91(a))
	GEOLOGICAL SURVEY	6. IF INDIAN, ALLOTTEE OR TRIBE NA
	Y NOTICES AND REPORTS ON WELLS s form for proposals to drill or to deepen or plug back to different orm 9-331-C for such proposite.	7. UNIT AGREEMENT NAME
		8. FARM OR LEASE NAME
1. oil well	well other	9. WELL NO.
	F OPERATOR OH & CTS	10. FIELD OR WILDCAT NAME
	NIE III S FINDE	IO. FIELD OR WILDCAT NAME
P. O. I	S OF OPERATOR BOSYELL, NEW MEXICO	11. SEC., T., R., M., OR BLK. AND SUR
	N OF WELL (REPORT LOCATION CLEARLY. See space 17	AREA NOCZZ FULSR-
below.) AT SURF	ACE: 19 YOFWE 4- COO FWE	12. COUNTY OR PARISH 13. STATE
AT TOP	PROD. INTERVAL:	1. Car 10
		14. API NO.
	APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, OR OTHER DATA	15. ELEVATIONS (SHOW DF, KDB, AN
REPAIR WELL PULL OR AL MULTIPLE CO CHANGE ZON	TER CASING	(NOTE: Report results of multiple completion change on Form 9–330.)
ABANDON* (other)		
(other) 17. DESCRIB including measured	E PROPOSED OR COMPLETED OPERATIONS (Clearly sta sestimated date of starting any proposed work. If well is d and true vertical depths for all markers and zones pertine markers and zones pertine	directionally drilled, give subsurface locations in to this work.)*
(other) 17. DESCRIB including measured	estimated date of starting any proposed work. If well is	directionally drilled, give subsurface locations of the second seco
(other <u>)</u> 17. DESCRIB including measured <i>V/근</i> <i>ザ/i 연</i> Subsurface St	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)*
(other) 17. DESCRIB including measured ソンビ ーグ/ビ Subsurface Si 18. I hereby of	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)*
(other) 17. DESCRIB including measured ソンビ ーグ/ビ Subsurface Si 18. I hereby of	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)*
(other) 17. DESCRIB including measured ソンビ ーグ/ビ Subsurface Si 18. I hereby of	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)*
(other) 17. DESCRIB including measured V/2 1/12 Subsurface Signed Zero SIGNED ZERO SIGNE	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)* Compared to the work.)* Compared to the subsurface location of
(other) 17. DESCRIB including measured V/2 1/12 Subsurface Signed Zero SIGNED ZERO SIGNE	afety Valve: Manu. and Type	directionally drilled, give subsurface locations of the work.)* Compared to the work.)* Compared to the subsurface location of

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LOCKHART A-27 NO. 9

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DRILL OUT, OPEN ADDITIONAL PAY, & STIMULATE

Well Data

TD:	6677	PBD: <u>+</u> 6544'	ELEVATION: 3427'	ZERO: 10' AGL
LOCA	ATION	: 660' FWL & 1980' FNL of Secti	on 27, T-21S, R-37E, L	ea County, NM
CASI	[NG :	13-3/8", 48#, H-40 Surface Stri 9-5/8", 36#, H-40 Intermediate 5-1/2", 14# & 17#, J-55 & N-80	Srring = (2/4) = (2/4)	A
PERI	FORAT	IONS: 6493'-6538' - Drinkard (1 6548'-6572' - Drinkard (1	20 Perfs) 18 Perfs - Squeezed)	
		Recommended	Procedure	
1.	Rig	up & if necessary, kill well w/	10 ppg brine water.	
2.	Α.	l w/rods & pump. Tag for fill w/2-3/8" tubing. POOH w/2-3/8" tubing & tally.		
3.		w/4-3/4" bit, 5-1/2" casing scra Run bit to +6544'. POOH w/2-3/8" tubing, 5-1/2" cas		bit.
4.	work A. B.	k up & GIH w/4-3/4" bit, bit sub, string. Drill out cement retainer @ +654 Circulate wellbore clean w/27 KC gallons. POOH w/2-7/8" workstring, 4 - 3- bit.	4' & cement to $\pm 6575'$. CL TFW w/l gallon Adoma	all per 1000
	NOTI	E: Utilize medium size oyster sl	nells to obtain circula	ation.
5.	A. B. C.	up wireline services. GIH w/CIBP, setting tool, colla: Set CIBP @ +6575'. POOH w/wireline, collar locator	, & setting tool.	
		lars located @ 6424'+,6450', 646		
6.	GIH EHD	w/4" select-fire centralized pe), collar locator, & wireline.	rforating gun (90° pha	se, 4 JSPF, 0.40"

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LOCKHART A-27 NO. 9 DRILL OUT, OPEN ADDITIONAL PAY, & STIMULATE

- 7. Perforate Lower Drinkard interval @ 6550', 6552', 6560', 6562', & 6568'. (Total: 20 Perforations.) Collars located @ 6424'+, 6450', 6464+', 6480', 6512', and 6528'. NOTE: Interval is to be perforated from bottom to top. 8. POOH w/wireline, collar locator, & 4" perf gun. 9. GIH w/5-1/2" packer, S.N., & 2-7/8" workstring. A. Hydro-test workstring w/5000 psi above slips. B. Set packer @ +6300'. C. Load backside w/2% KCL TFW w/l gallon Adomall per 1000 gals. D. Pressure backside w/800 psi. 10. Acidize Lower Drinkard (6493'-6568') through 2-7/8" workstring @ 4-6 BPM with a maximum surface treating pressure of 4800 psi as follows: NOTE: Monitor backside during treatment. A. Pump 840 gallons (20 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115°F). Pump 200 lbs Diverting Agent (50% Graded Rock Salt & 50% Benzoic Acid В. Flakes) mixed in 126 gallons (3 bbls) 10 PPG brine w/5 lbs Guar Gum (2 hour breaker). C. Pump 840 gallons (20 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115°F). Pump 200 lbs Diverting Agent (50% Graded Rock Salt & 50% Benzoic Acid D. Flakes) mixed in 126 gallons (3 bbls) 10 PPG brine w/5 lbs Guar Gum (2 hour breaker). Pump 840 gallons (20 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ Ε. 115°F). Flush w/60 bbls 2% KCL TFW w/l gallon Adomall per 1000 gallons. F. G. Shut in for one hour. 11. Swab back load (+126 bbls). Release packer @ +6300'. 12. POOH w/2-7/8" workstring, S.N., & packer. Α. GIH w/5-1/2" retrievable bridge plug, setting-releasing tool, & 2-7/8" В. workstring.
 - C. Set retrievable bridge plug @ +6485'.
 - D. Pressure test retrievable bridge plug w/1000 psi.
 - E. Spot 5' sand on top of retrievable bridge plug.
 - F. Spot 126 gallons (3 bbls) 15% HCL-NE-FE (inhibit acid for 48 hours @ 115° F) from +6465' to +6339'.
 - G. POOH w/2-7/8" workstring & setting-releasing tool.

Page 2

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LOCKHART A-27 NO. 9 DRILL OUT, OPEN ADDITIONAL PAY, & STIMULATE

- GIH w/4" select-fire decentralized perforating gun (0° phase, 1 JSPF, 0.40" EHD), collar locator, & wireline.
- 14. Perforate Upper Drinkard @ 6368', 6376', 6383', 6391', 6410', 6417', 6429', 6438', 6448', 6452', 6456', & 6465' (Total: 12 Perfs).

Collars located @ 6344', 6365+', 6388', 6409', 6424+', 6450', 6464'+, and 6480'.

NOTE: Interval is to be perforated from top to bottom.

15. POOH w/wireline, collar locator, & 4" perforating gun.

- 16. GIH w/setting-releasing tool, 5-1/2" packer, S.N., & 2-7/8" workstring.
 - A. Set packer @ +6200'.
 - E. Load backside w/2% KCL TFW w/l gallon Adomall per 1000 gallons.
 - C. Pressure backside w/800 psi.
- 17. Breakdown Upper Drinkard (6368'-6465') through 2-7/8" workstring @ 10 BPM as follows:

Maximum surface treating pressures: See Pressure/Rate Chart I.

NOTE: Monitor backside during breakdown.

- A. Pump 1008 gallons (24 bbls) 15% HCL-NE-FE (inhibit acid for 24 hours @ 115° F).
 - Release 2 ballsealers after every 2 bbls acid pumped. (Total: 24 ballsealers).
 - 2. Attempt to achieve ballout.
- B. Flush w/40 bbls 2% KCL TFW w/l gallon Adomall per 1000 gallons.
- 15. Release packer @ +6200'.
 - A. Run packer through perforations, knocking off ballsealers.
 - B. Set packer @ +6200'.
 - C. Load backside w/2% KCL TFW w/l gallon Adomall per 1000 gallons.
 - D. Pressure backside w/800 psi.
- 19. Acid fracture Upper Drinkard (6368'-6465') through 2-7/8" tubing in two stages as follows:

NOTE: Monitor backside during frac job.

Optimum pump rate: 12 BPM Maximum surface treating pressures: See Pressure/Rate Chart II Estimated surface treating pressure: 4250 psi

A. Pump 1932 gallons (46 bbls) 40# gelled TFW pad.

- B. Pump 2520 gallons (60 bbls) 28% HCL-NE-FE.
- C. Pump 1554 gallons (37 bbls) 40# gelled TFW flush.
- D. Release 6 ballsealers.
- E. Pump 1932 gallons (46 bbls) 40# gelled TFW pad.

Page 3

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LOCKHART A-27 NO. 9 DRILL OUT, OPEN ADDITIONAL PAY, & STIMULATE

F.	Pump	2520	gallons	(60	bbls)	28%	HCL-NE-FE.

- G. Pump 3150 gallons (75 bbls) 40# gelled TFW flush.
- H. Record ISIP & pressures every 5 minutes for 15 minutes.
- I. SION.

FRAC	FLUID	VOLUME	S &	COMPOSITION	(WESTERN)
		Per	1000) Gallons	

40# Gelled Pad 3862 gallons (92 bbls)	40 lbs J-2 (Gelling Agent) 25 lbs Aqua Seal-2 (FLA) l gal Aqua Flo (Non-Emulsifier) 2% KCL
28% HCL-NE-FE 5040 gallons (120 bbls)	28% HCL DS-30 3 gals I-15 (Inhibitor) 5 gals XR-2L (Iron Sequesterant) 1-1/2 gals FR-20 (Friction Reducer) 1 gal Aqua Flo (Non-Emulsifier)
40# Gelled Flush 4704 gallons (ll2 bbls)	40 lbs J-2 (Gelling Agent) 25 lbs Aqua Seal-2 (FLA) 1 gal Aqua Flo (Non-Emulsifier) 2% KCL

20. Swab back load. (+388 bbls).

21. Release packer @ +6200'.

- A. Release retrievable bridge plug @ +6485'.
- B. POOH & lay down 2-7/8" workstring, S.N., packer, setting-releasing tool,
 & retrievable bridge plug.
- 22. GIH w/Orange-Peeled-Slotted Mud Anchor, S.N., & 2-3/8" tubing.
 - A. Hydro-test tubing w/5000 psi above slips.
 - B. Land S.N. @+6525'.
 - C. GIH w/8' gas dip tube, pump, & rods.
 - D. Hang well on & place on production.

FRODUCTION ENGRISEER	<u>9-24-82</u> DATE
SUPERVISING PRODUCTION ENGINEER	DATE
DIVISION ENGINEER	DATE
DRILLING SUPERINTENDENT	DATE

JLS:vrm CC: WELL FILE, DLW, HDM (4), FEP, LBD, CRP, JLS

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