		EMNRD-OCD ARTESIA ' Form C-103
Submit 1 Copy To Appropriate District Office	State of New Mexico	
District 1 - (575) 393-6161	Energy, Minerals and Natural Resource	WELL API NO.
1625 N. French Dr., Hobbs, NM 88240 District II - (575) 748-1283	OUL CONSERVATION DIVISION	20.015.21419
811 S. First St., Artesia, NM 88210	OIL CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease
<u>District III</u> - (505) 334-6178 1000 Rio Brazos Rd., Aztec, NM 87410		STATE FEE
$\frac{\text{District IV}}{1220 \text{ S}} = (505) 476-3460$	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
SUNDRY NOT	ICES AND REPORTS ON WELLS ISALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLI	CATION FOR PERMIT" (FORM C-101) FOR SUCH	Higgins Cahoon Com
PROPOSALS.)	Gas Well 🕅 Other	8. Well Number 1
1. Type of Well: Oil Well 2. Name of Operator	Gas Well 🛛 Other	9. OGRID Number
Fasken Oil and Ranch, Ltd.		151416
3. Address of Operator		10. Pool name or Wildcat
6101 Holiday Hill Road, Midland,	TX 79707	Atoka; Penn
4. Well Location		
Unit Letter_O:	<u>990</u> feet from the <u>South</u> line and	<u>1650</u> feet from the <u>East</u> line NMPM County Eddy
Section 2	Township18SRange26E11. Elevation (Show whether DR, RKB, RT, G	
	3291' GR	
12. Check	Appropriate Box to Indicate Nature of No	otice, Report or Other Data
	NTENTION TO: PLUG AND ABANDON I REMEDIAL	
		E DRILLING OPNS. PAND A
PULL OR ALTER CASING		
		_
CLOSED-LOOP SYSTEM		-
OTHER:	OTHER:	ils, and give pertinent dates, including estimated date
13. Describe proposed or composed w	ork). SEE RULE 19.15.7.14 NMAC. For Multip	ble Completions: Attach wellbore diagram of
proposed completion or re		
• • •		
	-	
Fasken Oil and Ranch, Ltd. Plan to	plug the above well. Attached is our current and	proposed WBD and our procedure.
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	plug the above well. Attached is our current and	proposed WBD and our procedure.
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	plug the above well. Attached is our current and	Notify OCD 24 hrs. prior to any work
SEE CHANGES TO	plug the above well. Attached is our current and procedure	Notify OCD 24 hrs. prior to any work
	plug the above well. Attached is our current and	Notify OCD 24 hrs. prior to any work
SEE CHANGES TO Spud Date: ****SEE ATTACHED COA	plug the above well. Attached is our current and PROCEDURE Rig Release Date: S**** MUST BE P	Notify OCD 24 hrs. prior to any work done LUGGED BY 6/10/2021
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	Higgins Cahoon No. 1 990' FSL & 1650' FEL Sec 2, T18S R26E AFE 4054
OBJECTIVE:	Plug and Abandon
WELL DATA: API Number:	30-015-21318
13-3/8" 48#/ft H-40 casing:	Set at 1293' KB Cmt w/800 sx Howco Lite + 250 Sx "C" w/CaCl2. TOC surface, circ 150 sx
8-5/8" 24#/ft J-55 casing:	Set at 1904' KB, Cmt w/ 325 sx "C" w/ w/CaCl2. TOC 1075', by Temp survey.
5-1/2" 15.5# J-55,17#K-55	•
LT&C casing:	Set at 9012' Cmt w/500 sx "C" w/0.8% Halad-22, 5#/sk KCL. TOC 6500 by temp survey
Tubing:	272 jts 2-3/8" EUE 8rd N-80 tbg (8559.16'), 5-1/2 x 2-3/8 TAC, 35K shear, 9 jts 2-3/8" EUE 8rd N-80 tbg (290.54'), SN and 4' perf sub, EOT 8872.15'
Perfs:	Morrow 8635'-8654' (39 holes) 10-21-81 Morrow 8796'-8836' (102 holes), Orig 1-28-75, reperf 8-27-80
Rods and Pump:	See wellbore diagram or 11-15-07 pull report
Top of Milled PKR:	8897' Otis WB with 2-7/8" sub w/PN and "N" standing valve. EOT 8907'
TD:	9,072'
PBTD:	8920'

- 1. Test mast anchors.
- 2. RUPU.
- 3. Set pipe racks. Set flowback tank.
- 4. Release sucker rod on/off tool, POW w/ rods and swab tubing dry.
- 5. RIW w/rods, latch on/off tool and POW w/rods and pump.
- 6. RU pump truck and kill well w/ 30 bbls fresh water.
- 7. NDWH. NU BOP.
- Release Mod "B" TAC (30k shear) at 8,576.96' KB and POW with 272 jts 2-3/8" EUE 8rd 4.7#/ft N-80 tubing (8,559.16'), TAC (2.80'), 9 jts 2-3/8" EUE 8rd 4.7#/ft N-80 tubing (290.54'), 2-3/8" EUE 8rd seating nipple (1.10'), and 2-3/8" EUE 8rd perf sub with collar(3.86').
- RIW testing tubing to 6000 psi above slips with 5-1/2" 17# CIBP with setting tool, 2-3/8" drain nipple, 4' perforated sub, 2-3/8 EUE 8rd 4.7#/ft N-80 tubing, and set CIBP at +/-8,585' (minimum 50' above top perforation at 8635').
- Plug #1: RU cement pump and spot 25 sx class "H" cement (1.17 cuft/sk yield) above CIBP 8,535' for a PBTD of 8,360'. Displace cement with fresh water. POW 10 stands and WOC 4 hours and tag plug at +/-8,360'.
- 11. RU pump truck and displace well from +/-8,360' with 75 bbls 9.5 ppg gel laden mud.
- 12. POW laying down +/-2,500' of /2-3/8" EUE 8rd 4.7#/ft N-80 tubing, PS, drain nipple, and setting tool, to +/-6,000'.
- 13. RIW with 4-1/2" AD-1 tension packer, SN, 2-3/8" EUE 8rd N80 tubing and set packer at +/-5,600'.
- 14. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 6,000'. RDWL.

- 2
- 15. Plug #2: RU cement pump, open 5-1/2" x 8-5/8" casing to pit. Squeeze perfs at 6,000' with 45 sx class "C" cement (1.32 cuft/sk yield) at 6,000' for a PBTD of 5,816'. Displace cement with 9.5 ppg gel laden mud. POW 10 stands and WOC 4 hours and tag plug at +/-5,816'.
 5800' 50' above Top of Wolfcamp
- 16. Release AD-1 packer and POW laying down +/-1,300' of tubing and set packer at +/-4,300'.
- 17. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 4,700'. RDWL.
- 18. Plug #3: Open 5-1/2" x 8-5/8" casing to flowback tank. Squeeze perfs at 4,700' with 45 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to 4,516' or above. WOC 4 hours. Release packer RIW with tubing and TAG cement plug @_or_above 4,516' and notify Midland Office and BLM of the results.
 Perf at 2519' and sgz perfs w/ 45 sx cmt WOC and tag at 2335' 50' above top of Glorieta

19. Release AD-1 packer and POW laying down +/-3,000' of tubing. Set 4-12/" AD-1 packer at +/-1,700'.

- 20. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 1,954'. RDWL.
- 21. Plug #4: (8-5/8" shoe plug): Open 5-1/2" x 8-5/8" casing to pit. Squeeze perfs at 1,954' with 45 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to 1,770' or above. WOC 4 hours. Release packer RIW with tubing and TAG cement plug @ or above 1,770' and notify Midland Office and BLM of the results.
- 22. Release AD-1 packer and POW laying down +/-900' of tubing. Set 4-12/" AD-1 packer at +/-1,100'.
- 23. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 1,342'. RDWL.
- 24. Plug #5: Open 5-1/2" x 8-5/8" casing to pit. Squeeze perfs at 1,342' with 45 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to 1,159' or above. WOC 4 hours. Release packer RIW with tubing and TAG cement plug @ or above 1,159' and notify Midland Office and BLM of the results.
- 25. Release AD-1 packer and POW laying down +/-500' of tubing. Set 4-1/2" AD-1 packer at +/-200'.
- 26. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 450'. RDWL.
- 27. Plug #6: Open 5-1/2" x 8-5/8" casing to pit. Squeeze perfs at 450' with 26 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to 345' or above. WOC 4 hours. Release packer RIW with tubing and TAG cement plug @ or above 345' and notify Midland Office and BLM of the results.
- 28. POW laying down remainder of tubing. Set 4-1/2" AD-1 packer at 10'.
- 29. RUWL and 3000 psi lubricator. RIW with 1-11/16" strip gun and perforate 4 squeeze holes at 60'. RDWL.
- 30. Plug #7 (13-3/8" shoe plug): Open 5-1/2" x 8-5/8" casing to pit. Squeeze perfs at 60' with 15 sx Class "C" cement, displacing cement with 9.5 ppg gel laden mud to surface.
- 31. Dig out wellheads and cut-off below "A" section.
- 32. Weld plate onto casing with marker joint with the following information:

SEE ATTACHED COA'S - NO PLATE- INFORMATION WELDED ONTO DHM

Fasken Oil & Ranch Ltd., Higgins Cahoon Com #1 Unit O, Section 2, T18S, R26E, 990' FSL and 1650' FEL. VALVE NOT REQUIRED Install 1" 2000 psi-valve welded into top of marker joint. Remove valve handle and close valve.

33. Send wellheads to Downing Wellhead in Midland. Clean location, RDPU and release all rental equipment.

CWB/NH 3-26-20 (AFE_4054_Higgins Cahoon Com1 P&A proc 3-26-20.doc)

			Higgins Cah	ioon Con	n No. 1	
						as of 9-1-06
						GL: 3291'
Operator: Location: Compl.: API #: TD: PBTD:	990' FSL ar Sec 2, T189 Eddy Count	ty, NM released rig 18				KB: 3307'
Casing:	13-3/8" 48#	# H-40 @ 1293'	1			13-3/8'' 48# H-40 @ 1293'
Gasing.	w/800 sx H TOC surf, c	owco Lite + 250sx "C"w/	2% Cacl2			TOC surf, circ 150 sx 8-5/8'' 24# J-55 @ 1904' KB
		"w/2% CaCl2			243	TOC 1075' by Temp Survey
Tubing:	TOC 1075' 5-1/2''17#J w/500 sx ''0 TOC 6500' Run 11-15-	by Temp Survey - 55&15.5#K-55LT&C@ C" w/0.8% Halad-22, 5# I by Temp 07	kcl/sk			TOC 1075 by temp survey
		Brd perf sub w/ collar	3.86	i	i	
		BRD seating nipple	1.1 290.54			TOC 6500' by Temp
	,	EUE 8rd N-80 tubing BEUE 8RD Mod "B" TAC	290.54			5-1/2" Csg Wgt
		shear-at 8574'	2.8			15.5#/ft Surf - 6327'
	the second se	" EUE 8rd N-80 tubing-	8559.16			17#/ft 6327'-9012'
	,	3	8857.46			
	Below KB		15		Rods&F	Pump:
	Total EOT-		8872.46		1	26' X1-1/4"polishrod w/16' liner(26.00')
Rods&pmp	2'x1-1/16" in	sert pmp, 3/4" Norris 97 ste	el rods		1	3/4" 2' Norris rod sub (2.00')
					1	3⁄4" X 6' Norris rod sub (6,00')
Pkr1:		ed & pushed top to	8897.00		353	3/4"x25'Norris78rdsw/fhsmcplgs(8825')
		5512 5-1/2" 3"bore	2.70		3	3/4"x3'Norrissubw/3molded guides(3.00')
	2-7/8" EUE		7.63		1	no-tap tool (1.1')
	Profile Nipple	e 11N14 2-1/2" "N" LN w/2.255' No-Go ID	1.03		1	2"x1-1/16"x18'RHBCpmp w/brass ni-carb barrel (16.00')
	Mule shoe c		0.44		1	strainer nipple(0.5')
	EOT		8908.80		TAC	8574'
	Run Standin	g Valve 10-20-81	8907.33			Upper Morrow
Perfs:	Upper Morro	W				8635'-8654'
10/21/198	1 8635'-8654'	(2SPF w/4" Csg gun)				
9/1/200	6 8636'-8654'	(1jspf 1-11/16" Gamma g	un)			Morrow
	Morrow	which there is the second second to be a second	5134998 4951 - 250 - 155			8817'-8836'
	0 8796'-8836'	(2 Hyperdome SPF w/2-1	1990 - A.			8796'-8816'
	6 8796'-8836'					
	5 8817'-8836'	(10h, 0.33EHD, Hyper-Je		A A	Pkr1:	Otis WB pkr 8897' w2-7/8"sub, "N" Stndg vlv Standing valvo at 8007'
1/28/197	5 8796'-8816'	(11h, 0.33EHD, Hyper-Je	(H)		PBTD:	Standing valve at 8907' 8920' by WL meas.
Hole Sizes		17-1/2" 1293'			TD:	9072'
1016 01265		12-1/4" 1293'-1904'				5-1/2"17#J-55&15.5#K-55LT&C@ 9012'
		7-7/8" 1904'-9072'				TOC 6500' by Temp
		1-110 1904-9012				100 0000 by reliip

dak 3/30/2020 Higgins Cahoon wb diagram.xls

Higgins Cahoon Com No. 1

			Higgins	Canoon	Comine	J . 1	
							Proposed P&A 3-25-20
			Tops				GL: 3291', KB: 3307'
Operator: Location:							PI7 15 sx "C" 0'-60', Surface
Compl.: API #: TD: PBTD:	12/20/1974 30-015-214 9072' 8920' by W		San Andres 1025'		医包 不 后期		PI6, 26sx "C" 345'-450', Tag
Casing	w/800 sx He TOC surf, c	♯ H-40 @ 1293' owco Lite + 250sx "C irc 150 sx J -55 @ 1904' KB	2"w/2% Cacl2			P5	45sx "C" 1159'-1342', Tag 13-3/8" 48# H-40 @ 1293' TOC surf, circ 150 sx
	w/325sx "C	"w/2% CaCl2				Plg4	45sx"C" 1770'-1954', Tag
	TOC 1075'	by Temp Survey	Glorieta 2385'	1		1	8-5/8" 24# J-55 @ 1904' KB
		- 55&15.5#K-55LT&(" w/0.8% Halad-22, by Temp	and the second				TOC 1075' by Temp Survey
			Abo 4525'			Plg3	45sx"C" 4516'-4700', Tag
D	D8 4 2 05	2020	Wolfcamp 5824		3. S 10 S	Plg2	45sx"C" 5816'-6000', Tag
	P&A - 3-25-				and the second		
15sx"C"	0'-60'	Plg #7 Surface					
26sx"C"		Plg #6, Perf & Sqz, TAC	3				TOC 6500' by Temp
45sx"C"		a Plg#5 Perf&Sqz,TAG					5-1/2" Csg Wgt:
45sx"C"		a Pig #4, Perf & Sqz,TAG					15.5#/ft Surf - 6327'
45sx"C"	4516'-4700', T						17#/ft 6327'-9012'
45sx"C" 25sx "H"	5816'-6000', T						
CIBP:	8360'-8585', T 8,585'	arig #1, Tag					
	5,000		Atoka 8530'				
Perfs: 10/21/198	Upper Morro 1 8635'-8654'	w (2SPF w/4" Csg gun)	Morrow Clas. 858	5'		Plg1	25sx "H" 8360'-8585', Tag
9/1/200	6 8636'-8654'	(1jspf 1-11/16" Gamm			XXX	CIBP:	8,585'
	Morrow	NO DER 1					8635'-8654'
8/27/198	0 8796'-8836'	(2 Hyperdome SPF w	1/2-1/8" thru tbg)	14			
9/1/200	6 8796'-8836'	(1jspf 1-11/16" Gamn	na gun)				8817'-8836'
1/28/197	5 8817'-8836'	(10h, 0.33EHD, Hype	er-Jet II)				8796'-8816'
1/28/197	5 8796'-8816'	(11h, 0.33EHD, Hype	er-Jet II)			Pkr1:	Otis WB pkr 8897' w2-7/8"sub, "N" Stndg vlv
			Barnet Shale 8925		R	PBTD:	8920' by WL meas.
Hole Sizes		17-1/2" 1293'				TD:	9072'
		12-1/4" 1293'-1904'					5-1/2"17#J-55&15.5#K-55LT&C@ 9012'
		7-7/8" 1904'-9072'					TOC 6500' by Temp

dak 3/30/2020 Higgins Cahoon wb diagram.xls

CONDITIONS FOR PLUGGING AND ABANDONMENT

OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.

- 1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
- 2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
- 3. 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 in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
- 4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
- 5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
- 6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
- 7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
- 8. Produced water will not be used during any part of the plugging operation.
- 9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
- 10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
- 11. Class 'C' cement will be used above 7500 feet.
- 12. Class 'H' cement will be used below 7500 feet.
- 13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
- 14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

- 16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
- 17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
- 18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
- 19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
- 20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
 - A) Fusselman
 - B) Devonian
 - C) Morrow
 - D) Wolfcamp
 - E)Bone Springs
 - F) Delaware
 - G) Any salt sections
 - H) Abo
 - I) Glorieta
 - J) Yates.
 - K) Potash--- (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 that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
- 21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

DRY HOLE MARKER REQUIRMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name2. Lease and Well Number3. API Number4. Unit Letter5. QuarterSection (feet from the North, South, East or West)6. Section, Township and Range7. Plugging Date8. County(SPECIAL CASES)------AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION