District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit to appropriate District Office

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

State Lease - 6 Copies Fee Lease - 5 Copies

AMENDED REPORT

Form C-101

Revised March 17, 1999

APPLI	CATIO					RE-EN	NTER,	DEI	E <u>PEN,</u>	PLUGBA	<u>CK, (</u>	O <u>R ADI</u>	D A ZONE
Operator Name and Address Fasken Oil and Ranch, Ltd.												GRID Numi	
		kanon, Ltd. e., Suite 1800)		151416 ³ API Number								
Midlar	nd, TX 797	701-5116										30- <i>02</i>	5-36333
3Property Code 5 Property N 32562 Buckeye "1"												No.	
	56 x				_	eye "1" S						1	
	1				Sur	face Lo	ocation						<u> </u>
UL or lot no.	Section	Township	Range	Lot Id	in	Feet from	m the N	North/So	outh line	Feet from the	East/West line		County
4/10	1	17S	34E			820			orth	1310		West Lea	
		, s j	Proposed B	sottom F	Iole I	Locatio	on If Dif	ffere	nt Fron	n Surface			
UL or lot no.	Section	Township	Range	Lot Id	- 1	Feet from	1		outh line	Feet from the	East/West line County		County
			roposed Pool 1				- Industrial Control of the Control			10 Pro	¹⁰ Proposed Pool 2		
	!	North Vacu	uum Atoka N	Norrow									
II 37/ 1	" C-d-		12 xxx-11 m-m- Co	•		13 Oakla	- · · · ·		14	- T C-1-		15.0	
	Type Code		12 Well Type Cod	ode 13 Cable/Rotary			_	14 Lease Type Code			15 Ground Level Elevation 4040'		
¹⁶ Mı	¹⁶ Multiple ¹⁷ Proposed D		17 Proposed Dep	epth ¹⁸ Form			mation	19 Contractor			²⁰ Spud Date		
N	lo		12800'			Mor				Not available			8/10/03
		1	F	Proposed	l Cas	ing and	d Cemer	nt Pr	ogram				
Hole Si	ze	Casir	ng Size	Casing	weight	/foot	Setting Depth Sacks of			Cement Estimated TOC			
17 1/2	2	13	3/8"	48#		500'		550 sx			Surface		
12 1/2	4	9 :	5/8"	36/40#		5000'		1200 sx			Surface		
8 3/4	n	4	1/2"	11.6/13.5#		12800'		2100) sx		4500'		
				i									
22 Describe the	e proposed	program. If th	nis application is	s to DEEPE	N or PI	LUG BAC	CK, give the	e data	on the pres	sent productive.	zone and	Proposed	new productive zone.
]			am, if any. Use					-	•	22	500	1	3.
Describe die 5	lowout pro.	ontion progra	III, it mij. Oos .	auditional D	HOOLS 11	Hoodsaa	у.			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0		8
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Please see	апаспец	for proce	dure, casing	ş program	n anu	BOL 8	cnemau	iC.		3.19	? د	138	
!					:	² ermit	: Expire	∍s 1 _.	Year	1.1011(0.26)	roval		- <i>61</i>
						Dat	re Unle	ess l	Drilling	g Underwa	яў		
			wast.				·			***			
23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief.							OIL CONSERVATION DIVISION						
Signature: Survey acces							Approved by:						
Printed name: Jimmy D. Carlile							Title: PETROLEUM ENGINEER						
Title:	Regulatory	Affairs Coor	rdiantor				Approval	Date:		Expiration Date:			
Date:	7/15/03		Phone: (915	5) 687-17	77		Cartificant						
}			1 `	,		J	Attached	(JL I	7 2003			

DISTRICT 1 1625 N. French Dr., Hobbe, NM 68240 DISTRICT II 811 South First, Artesia, NM 68210

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

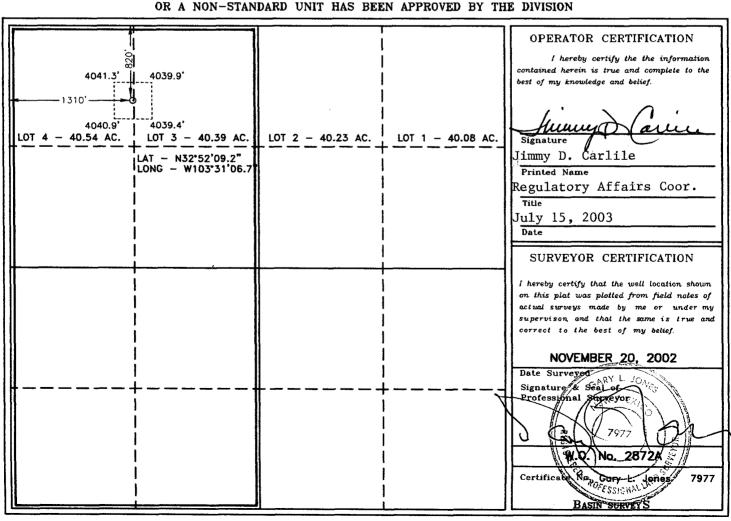
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name		
30-025-36333	86800	North Vacuum Atoka Morrow		
Property Code	Proper	ty Name	Well Number	
32562	BUCKEYE	"1" STATE	1	
OGRID No.	Operat	or Name	Elevation	
151416	FASKEN OIL &	RANCH, LTD.	4040'	
	S	Looption		

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 4/1)	1	17 \$	34 E		820	NORTH	1310	WEST	LEA
			Bottom	Hole Loc	eation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint c	r Infill Co	nsolidation	Code Or	der No.				
320	1			- 1					

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Recommended Procedure

Buckeye"1" State No. 1 ------ A.F.E. No. 628 -----North Vacuum Atoka-Morrow Field 820' FNL and 1310' FWL Sec. 1, T17S, R34E Lea County, NM

- 1. Drilling contractor to set 30" conductor if necessary. MIRU rotary tools.
- 2. Drill 17-1/2" hole to 500' with spud mud. Set and cement 13-3/8" casing with 550 sx Class "C" with 2% CaCl₂ (s.w. 14.8 ppg, yield 1.32 ft³/sx). WOC 18 hrs.
- 3. Drill 12-1/4" hole to 5000' with 10 ppg brine water. Control seepage with paper.
- 4. Set and cement 9-5/8" casing at 5000' with estimated 1000 sx Halliburton Interfill "C" with 8# salt and 1/4# Flocele (s.w. 11.9 ppg, yield 2.46 ft³/sx) plus 200 sx Class "C" neat (s.w. 14.8 ppg, 1.32 ft³/sx). Run temperature survey and locate TOC if cement is not circulated.
- 5. Install 11" x 5000 psi intermediate spool. NU 11" 5000 psi B.O.P.'s, hydril and choke manifold. WOC 12 hours. Set up DST test line complete with test tank. RU mud gas separator with flare ignitor. Install H₂S monitor equipment, escape packs and briefing stations.
- 6. Hydrostatically test 200' of 9-5/8" casing to 2800 psig, casing spool, BOP's, and choke manifold to 3000 psig, and hydril to 1500 psig. Install PVT equipment
- 8. Drill 8-3/4" hole to total depth of 12,800'. Drill out using fresh water to a depth of 9600'. Convert to 9.5 ppg cut brine water at 9600' just above the Wolfcamp shales. Mud up as dictated by hole conditions or by 11,500' with starch and PAC mud system. Increase viscosity with salt gel or polymer as needed to clean hole. Maintain 9.5-10.0 ppg and 10 cc water loss to total depth. NOTE: Be prepared to raise mud weight to 12 ppg in the Atoka-Morrow interval if necessary.
- 9. DST all shows.
- Log well with DLL-MSFL and CNL-LDT using Schlumberger Platform Express.
- 11. Run and cement 4-1/2" production casing (resin coated and centralized through pay zones) with DV tool at base of Abo (estimate 9600') as follows:

First Stage: Note, batch mix lead slurry. 10 bfw + 500 gallons Mud Clean + 10 bfw and estimated 1000 sx Halliburton Super "H" with 1# salt, 0.4% CFR-3, 0.5% Halad-344, 0.1% HR-7 and 5# Gilsonite (s.w. 13.0 ppg, yield 1.67 ft³/sx). Open DV tool and circulate 6 hours.

Second stage: 1000 sx Halliburton Lite "C" with 6% gel (s.w. 12.6 ppg, yield 2.01 ft³/sx) plus 100 sx Class "H" neat (s.w. 15.6 ppg, yield 1.18 ft³/sx). Calculate second stage cement volume for TOC at 4500'.

- 12. Set slips, nipple down BOP's and run temperature survey to locate cement top.
- 13. Install 11"-5000 psi x 7-1/16"-5000 psi tubinghead and flow tree.
- 14. Rig down and move out rotary tools.
- 15. Level location, set mast anchors, move in and rig up completion unit.

Buckeye "1" State No. 1 Recommended Procedure Page 2

- 16. RIW with 3-3/4" bit, 4-1/2" casing scraper, 6 3-½" drill collars and 2-3/8" 4.7# N-80 EUE 8rd tubing. Drill out DV tool and reciprocate scraper through DV tool several times. Pressure test casing to 1500 psig. RIW and clean out to float collar. Circulate well clean and pressure test casing to 1500 psig. POW and LD tools.
- 17. RIW with packer, T.O.S.S.D. with "F" profile nipple and 2-3/8" tubing. Set packer, install flow tree, swab down tubing and perforate pay interval.
- 18. Flow test well, evaluate, and stimulate if necessary.
- 19. RDPU. Clean and level location.
- 20. Run C.A.O.F.P. and pressure build up.
- 21. Connect surface equipment.

TET (Buckeye1State1drlgprc)

Recommended Casing Program A.F.E. No. 628

Fasken Oil and Ranch, Ltd.-----Buckeye "1" State No. 1-----North Vacuum Atoka-Morrow Field Lea County, NM

<u>String</u>	Footage	Size	Weight	<u>Grade</u>	Thread
Surface	500'	13-3/8"	48.00#	H-40	ST&C
Intermediate	2700' 1500' <u>800'</u> 5000'	9-5/8" 9-5/8" 9-5/8"	36.00# 40.00# 40.00#	K-55 K-55 HCK-55	ST&C ST&C ST&C
Production	2,500' 8,400' <u>1,900'</u> 12,800'	4-1/2" 4-1/2" 4-1/2"	11.60# 11.60# 13.50#	N-80 N-80 N-80	BT&C LT&C LT&C
Tubing	12,700'	2-3/8"	4.70#	N-80	EUE 8rd

TET (Kbuckeye1State1csg)

