•										
District I 1625 N. French Dr., Hobbs, NM 88240				State of New Mexico				Form C-101		
District II 1301 W. Grand Avenue, Artesia, NM 88210			Er	Energy Minerals and Natural Resources				May 27, 2004		
District III				Oil Conservation Division				Submit to appropriate District Office		
1000 Rio Brazos Road, Aztec, NM 87410 District IV				1220 South St. Francis Dr.				AMENDED REPORT		
1220 S. St. Francis Dr.,					Fe, NM 875					
APPLICAT	<u>ION FO</u>	PERMI Operator Name	C TO D	RILL, RE-	<u>ENTER, DI</u>	EEPEN	<u>I, PLUGBA</u>	CK, OR A	DD A ZONE	
Fasken Oil and Ranch, Ltd. 303 West Wall,					Ste 1800		API Number AG			
Midland, TX 79701 Property Code					Name 30 - 0 25 - 36884			<u>881</u>		
32562 Bucke				eye "1" State			2			
North Vacu		Proposed Pool 1 er Wolfca	mp (6	52380)	1		<sup>10</sup> Prop	posed Pool 2		
			<u>-</u> ,	<sup>7</sup> Surface	Location					
UL or lot no. Section F 1	Township 17S	Range 34 E	Lot Idn Feet from		om the North/South line		Feet from the East/West line		County	
<u> </u>	1/5			1830		rth	1830	West	Lea	
UL or lot no. Section	Township	Range	Lot 1		rom the North/South line		Feet from the	East/West line	County	
		]		 	.11 Tar 6					
<sup>11</sup> Work Type Code		<sup>12</sup> Well Type Co			ell Information e/Rotary		Lease Type Code	15 Gi	round Level Elevation	
N <sup>16</sup> Multiple		0	.4	Rota			S		4039'	
No		<sup>17</sup> Proposed Dep 10800				<sup>19</sup> Contractor NA			<sup>20</sup> Spud Date 9/27/04	
Depth to Groundwater		71'		e from nearest fres	sh water well>1/4 mile Distance from nearest surface water >1 mile					
Pit: Liner: Synthetic		ils thick Clay	Pit Vol	ume:bbls 22,000	Drilling Method: Fresh Water K Brine Diesel/Oil-based Gas/Air					
Closed-Loop Sys	tem	2	1 <sup>′</sup> D					Dil-based Gas	Air L	
		ning Sing			nd Cement			.	T	
17 1/2"	Hole Size Casing Size		Casing weight/foot		Setting Depth		Sacks of Cement		Estimated TOC	
• · · · • • • • • • • • • • • • • • • •		5/8"	36	5/40#	5000	5000'			surface	
8 3/4"	5	5_1/2"		1#	10800'		1300 sx		4500	
					-					
<sup>22</sup> Describe the propose Describe the blowout pro See attache <b>Permit EX</b> <b>Date U</b>	d for p	procedure	, casi Appro	ng progra				112131415	SEP 200 h L L VED Hobbs OCD 99 te z L L	
<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines $A$ , a general permit $\Box$ , or an (attached) alternative OCD-approved plan $\Box$ .					OIL CONSERVATION DIVISION					
					Approved by:					
an (attached) atternati					6	20	an p	and		
	Printed name: Jimmy D. Carlile					Tide: PETROLEUM ENGINEER				
		Affairs C	Title: Regulatory Affairs Coordinator						THE REAL PROPERTY AND A DESCRIPTION OF A	
Title: Regul	atory A		oordin	lator	Approval Date:		E	Expiration Date:		
	atory A myc@foi		- w.a.		Approval Date: SE Conditions of A	<b>P</b> 2.9	2004	Expiration Date:		

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DISTRICT I 1625 N. French Dr., Hobbs, NM 88240

DISTRICT II 811 South First, Artesia, NM 88210

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

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505 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

## **OIL CONSERVATION DIVISION**

2040 South Pacheco

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

7977

OFESSIONA BASIN SURVE

## **API** Number Pool Code Pool Name 3 30-025-62380 North Vacuum Lower Wolfcamp Property Code **Property** Name Well Number BUCKEYE "1" STATE 2 32562 OGRID No. **Operator** Name Elevation FASKEN OIL & RANCH, LTD. 151416 4039' Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County F 1 17 S 34 E 1830 NORTH 1830 WEST LEA Bottom Hole Location If Different From Surface UL or lot No. Section Township Range Lot Idn Feet from the North/South line East/West line Feet from the County **Dedicated** Acres Joint or Infill **Consolidation** Code Order No. 80 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 **OPERATOR CERTIFICATION** I hereby certify the the information mtained herein is true and complete to the my knowledge and belief. of 1830 Signature / <u>limmy</u> D. Printed Name <u>Carlile</u> LAT - N32\*51'59.3" LONG - W103\*31'00.5" Regulatory Affairs Coor. - 1830' Title 9/27/04 jimmyc@forl.com Date SURVEYOR CERTIFICATION . \$ \$ \$ \$ \$ I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief. SEPTEMBER 10, 2004 Date Surveyed Seal of JONES Signature 0561817 Certific

## **Recommended Procedure**

Buckeye "1" State No. 2 ------- A.F.E. No. 869 -----North Vacuum Wolfcamp Field 1980' FNL and 1980' FWL Sec. 1, T17S, R34E Lea County, NM

- 1. Drilling contractor to set 20" 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% CaCl<sub>2</sub> (s.w. 14.8 ppg, yield 1.32 ft<sup>3</sup>/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 1200 sx Halliburton Interfill "C" with 8# salt and ¼# Flocele (s.w. 11.9 ppg, yield 2.46 ft<sup>3</sup>/sx) plus 200 sx Class "C" neat (s.w. 14.8 ppg, 1.32 ft<sup>3</sup>/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 complete with hydraulic choke. WOC 12 hours. Set up DST test line complete with test tank. Install H<sub>2</sub>S 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 10,800'. Drill out using fresh water to a depth of 9600'. Convert to 9.0 ppg cut brine water at 9600' just above the Wolfcamp shales. Mud up as dictated by hole conditions or by 10,000' with starch and PAC mud system. Increase viscosity with salt gel or polymer as needed to clean hole. Maintain 9.0-9.5 ppg and 10 cc water loss to total depth.
- 9. DST all shows.

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- 10. Log well with DLL-MSFL and CNL-LDT using Schlumberger Platform Express.
- 11. Run and cement 5-1/2" production casing (resin coated and centralized through pay zones) with 10 bfw + 500 gallons Mud Clean + 10 bfw and estimated 1000 sx Halliburton Lite "C" with 6% gel (s.w. 12.6 ppg, yield 2.01 ft<sup>3</sup>/sx) plus 300 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 ft<sup>3</sup>/sx). Batch mix tail slurry. Wash up lines to pit leaving no cement on top of plug. Displace with 3% KCI water containing packer fluid. Calculate 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.
- 16. Pressure test casing to 1500 psig.
- 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.

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

19. RDPU. Clean and level location.

- 20. Run C.A.O.F.P. and pressure build up.
- 21. Connect surface equipment.

TET (Buckeye1State2drlgprc)

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## Recommended Casing Program A.F.E. No. 869

Fasken Oil and Ranch, Ltd.-----Buckeye "1" State No. 2-----North Vacuum Wolfcamp Field Lea County, NM

String	Footage	Size	Weight	Grade	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	10,800'	5-1/2"	17.00#	N-80	LT&C
Tubing	10,700'	2-3/8"	4.70#	N-80	EUE 8rd

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