

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

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Fasken Oil and Ranch, Ltd. 303 W. Wall Ave., Suite 1800 Midland, TX 79701-5116		² OGRID Number 151416
		³ API Number 30-025-36333
³ Property Code 32562	⁵ Property Name Buckeye "1" State	⁶ Well No. 1

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	1	17S	34E		820	North	1310		Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
⁹ Proposed Pool 1 North Vacuum Lower Wolfcamp						¹⁰ Proposed Pool 2			

¹¹ Work Type Code P	¹² Well Type Code O/G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 4040' GR
¹⁶ Multiple No	¹⁷ Proposed Depth 11865' *	¹⁸ Formation Wolfcamp	¹⁹ Contractor Not available	²⁰ Spud Date 3/3/04

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48	496'	550 sx C	Circulated
12 1/4"	9 5/8"	36/40	4991'	1400 sx C	450' Temp Sur
8 3/4"	5 1/2"	17/20	12198'	2200 sx Lite C/H	370' Temp Sur

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Fasken Oil and Ranch, Ltd. proposes to plugback and test the Wolfcamp formation in this well. We have tested the North Vacuum Atoka Morrow and cannot make a well in the Morrow. Current rates tested from the Morrow are 5 BOPD, 26 MCFPD, 0 BWPD on 3/4" choke, FTP 100 psi from perforations at 11914' - 11938'.

We propose to test the Wolfcamp at 10578' - 10637'. We anticipate production rates flowing at 50 BOPD and 100 MCFPD. We anticipate this to be sweet production.

*Please see the attached procedure for details of the work.

Permit Expires 1 Year From Approval
Date Unless Drilling Underway
Plugback

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Jimmy D. Canile</i> Printed name: Jimmy D. Canile jimmvc@forl.com Title: Regulatory Affairs Coordinator Date: 3/2/04		OIL CONSERVATION DIVISION Approved by: <i>Paul A. [Signature]</i> Title: PETROLEUM ENGINEER Approval Date: MAR 10 2004 Conditions of Approval: Attached <input type="checkbox"/>	
Phone: (432) 687-1777			

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State of New Mexico

Energy, Minerals and Natural Resources Department

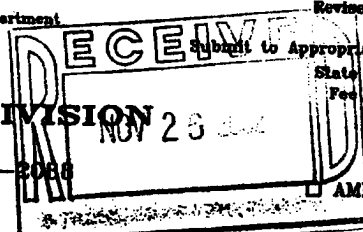
Form C-102

Revised March 17, 1999

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87504-2088



Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-36333	Pool Code 62380	Pool Name North Vacuum Lower Wolfcamp
Property Code 32562	Property Name BUCKEYE "1" STATE	Well Number 1
OCRID No. 151416	Operator Name FASKEN OIL & RANCH, LTD.	Elevation 4040'

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	17 S	34 E		820	NORTH	1310	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres: 80.93 Joint or Infill: Consolidation Code: Order No.: NSL-5041									

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

		LOT 4 - 40.54 AC. LOT 3 - 40.39 AC. LOT 2 - 40.23 AC. LOT 1 - 40.08 AC.	
LAT - N32°52'09.2" LONG - W103°31'06.7"			
OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief. Signature Jimmy D. Carlile Printed Name Regulatory Affairs Coord. Title 3/2/04 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 supervision and that the same is true and correct to the best of my belief. NOVEMBER 20, 2002 Date Surveyed Signature and Seal of Professional Surveyor W.O. No. 2872A Certificate No. Gary L. Jones 7977 BASIN SURVEYS			

Recommended Recompletion Procedure
Buckeye "1" State No. 1
820' FNL & 1310' FWL
Sec 1, T17S R34E
AFE 811

OBJECTIVE:	Recomplete to Wolfcamp
WELL DATA:	
API Number:	30-025-36333
13-3/8" 48#/ft H-40 ST&C casing:	Set at 496.03' KB Cmt w/550 sx "C" w/2% CaCl2. Circ 64 sx to surface.
9-5/8" 40&36#/ft K-55 ST&C casing:	Set at 4990.77' KB, Cmt w/1200 sx Halliburton Interfill "C" with 8# salt, did not circ, TOC 450' by Temp.
5-1/2" 17&20#/ft L-80 LT&C csg (20#/ft from TD-10,263.63' and top 1179.70'):	Set at 12,198.14 KB, DV @ 9610.91' KB, Cmt 1st stage 800 sx Halliburton Super "H" circ 109 sx, Cmt 2 nd stage 1200 sx Halliburton Lite "C" w/6% gel +200 sx Class "H" neat. TOC 370' by Temp. Marker jt 7.01' @ 11,819.67'-11,812.66'. Marker jt 7.03' @ 10,490.20'-10,483.17'.
Perfs:	11,914'-18' (5h), 11,926'-28' (3h), 11,930'-33' (4h), 11,936'-38' (3h)
Packer:	11,810.34' KB Arrowset I 10K with 1.781" "F" profile nipple
Tubing detail:	WL entry guide (0.43'), Arrowset I 10k pkr (7.35') w/ 1.781" "F" profile (1.49'), 376 jts 2-3/8" EUE 8rd N-80 tubing (11,788.11'). EOT 11,819.38' KB
TD:	12,600'
PBTD:	12,112' orig comp drillout (Float collar at 12148.74' KB)

1. RUPU. Kill well with 46 bbls 3% KCL water containing 1 gpt Claymaster 5C, corrosion inhibitor and oxygen scavenger.
2. NDWH. Install BOP and set test tank.
3. Release Arrowset 1 10K packer at 11,810' and reverse circulate well with 60 bbls 3% Kcl water containing 1 gpt Claymaster 5C, corrosion inhibitor and oxygen scavenger. POW with 376 jts 2-3/8" EUE 8rd N-80 tubing, TOSSD, packer, and wireline entry guide.
4. RU wireline 5000 psi lubricator.
 - A. Run and set 5-1/2" CIBP @ 11,900'.
 - B. Fill well with 3% KCL water containing 1 gpt Claymaster 5C.
 - C. Run dump bailer and spot 35 feet (4 sx) of Class "H" cement on CIBP for PBTD 11,865' and test to 2000 psi.
 - D. Run GR-CCL from 10,700' – 10,500'. Perforate Wolfcamp 1JSPF at 10578', 10579', 10580', 10591', 10602', 10605', 10607', 10624', 10630', 10632', 10635', and 10637' total 12 holes with 3-3/8" select fire casing gun using 0.41" EHD shots 120 degree phased by Baker Hughes/Baker Atlas Compensated Z-Densilog/Compensated Neutron log dated October 19, 2003.
5. RIW w/ 2-3/8" wireline entry guide, 5-1/2" Arrowset I 10K packer, TOSSD w/ 1.781" "F" frac hardened profile, and 2-3/8" 4.7#/ft EUE 8rd N-80 tubing to +/-10,640' and spot 250 gals. 15% NEFE DI acid. POW to 10,500'+/- and reverse acid into tubing with 8 bbls 3% Kcl water.

6. Set packer, ND BOP, NUWH with packer set in 20,000# compression.
7. Trap 2000 psi on tbg-csg annulus and displace acid into formation.
8. Swab well and flow to pit to clean up. Evaluate for stimulation.
9. If stimulation required, RU BJ Services. Trap 1500 psi on 2-3/8"x5-1/2" annulus. Acidize Wolfcamp perms 10,591'-10,640' (11 holes) with 1500 gal 15% NEFE acid dropping 22 ball sealers evenly spaced for diversion. Max pressure 2500 psi. Additives are:
 - 0.5 gal/M Clay Master-5C
 - 2 gal/M FAW-18w, surfactant
 - 2 gal/M NE-13, Non-emulsifier
 - 1 gal/M CI-27, organic inhibitor
 - 6 gal/M Ferrotrol-270L
 - 2 gal/M Ferrotrol-271LFlush with 3% KCL water containing and NE-13 surfactant.
10. Swab and flow back acid and load water.
11. Flow to pit until gas will burn.
12. Return well to sales.

cwb

2-25-04

(Buckeye Wlfcmp projwd1.doc)

Buckeye "1" State No. 1

as of 2-1-04

GL: 4040'

KB: 4073'

Operator: **Fasken Oil and Ranch, Ltd.**
 Location: 820' FNL and 1310' FWL
 Sec 1, T17S, R34E
 Lea County, NM
 Compl.: 10/22/2003 released rig
 API #: 30-025-36333

TD: 12,600'
 PBTB: 12,149' KB Float Collar
 Casing: 13-3/8" 48# H-40 @ 496.03'
 w/550 sx "C", circ 64 sx
 13-3/8" TOC surf
 9-5/8" 36&40# K-55 @ 4990.77' KB
 w/1200sx Howco Interfill w/8# salt
 9-5/8" TOC 450'
 5-1/2" 17&20# L-80 @ 12,198.14'
 1st stg 800sx Howco Super "H",
 Circ 109 sx thru DV
 2nd stg 1200 sx Howco Lite
 + 200 sx "C"
 TOC: 5-1/2" TOC 370' by Temp
 DV: 9610.91'

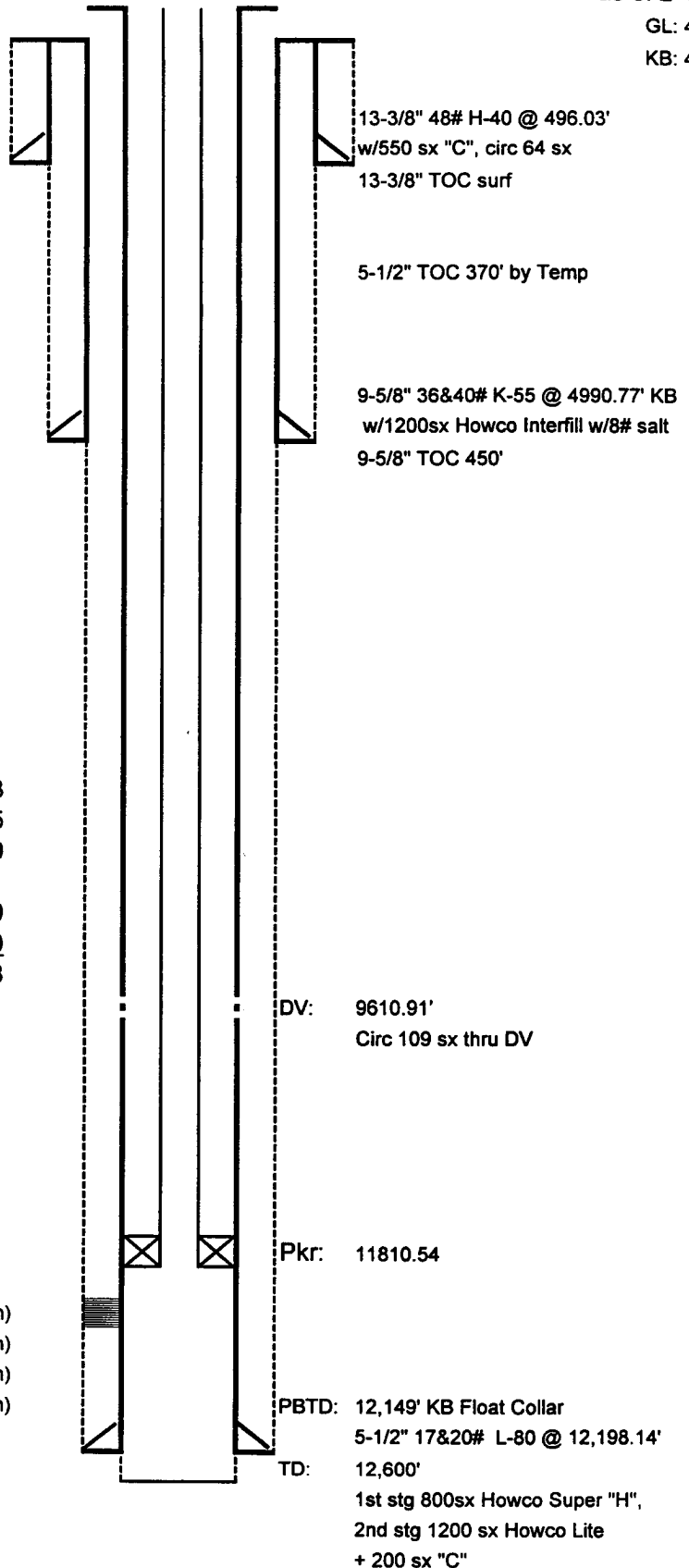
Tubing Detail

Pkr:	2-3/8" wireline entry guide	0.43
	Arrowset I 10k @ 11,800'	7.35
	TOSSD w/1.781" "F" prof	1.49
	376 jts 2-3/8" EUE 8rd N-80 tbg	11788.11
	KB	28.00
	Slcak off	-6.00
	EOT	11819.38

Perfs:
 Atoka 11,914'-18' (5h)
 11,926'-28' (3h)
 11,930'-33' (4h)
 11,936'-38' (3h)

Hole Sizes
 17-1/2" 498'
 12-1/4" 4990'
 8-3/4" 12,601'

11,914'-18' (5h)
 11,926'-28' (3h)
 11,930'-33' (4h)
 11,936'-38' (3h)



DV: 9610.91'
 Circ 109 sx thru DV

Pkr: 11810.54

PBTB: 12,149' KB Float Collar
 5-1/2" 17&20# L-80 @ 12,198.14'
 TD: 12,600'
 1st stg 800sx Howco Super "H",
 2nd stg 1200 sx Howco Lite
 + 200 sx "C"

cwb

2/25/2004

BuckeyeSt1 wb diagram.xls