

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

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

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, Suite 1800 Midland, TX 79701		² OGRID Number 151416
³ Property Code 29106		⁴ API Number 30-015-32112
⁵ Property Name Klingensmith	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
H	24	20S	24E		1980	North	990	East	Eddy

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 Cemetery - Morrow					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code G	¹³ Cable/Rotary Rotary	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3593
¹⁶ Multiple No	¹⁷ Proposed Depth 9850'	¹⁸ Formation Morrow	¹⁹ Contractor Patterson UTI	²⁰ Spud Date 12/4/01

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17½"	13-3/8"	48.0	400'	400	Surface
12½"	9-5/8"	36.0	3000' 2000'	800	Surface
8-3/4"	4½"	11.6	9850'	1100	6000'

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.

See attached Recommended Procedure, casing program and BOP Schematic.

NOTIFY SPUD & TIME TO WITNESS
CEMENTING of 9-5/8" CASING

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Tommy E. Taylor

Printed name: Tommy E. Taylor

Title: Drilling and Production Engineer

Date:
11/27/01

Phone:
(915) 687-1777

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Conditions of Approval:

Attached ☐

James W. Brown

SUPERVISOR, DISTRICT II

NOV 29 2001 Expiration Date NOV 29 2002

C-101 Instructions

Measurements and dimensions are to be in feet/inches. Well locations will refer to the New Mexico Principal Meridian.

IF THIS IS AN AMENDED REPORT CHECK THE BOX LABELED "AMENDED REPORT" AT THE TOP OF THIS DOCUMENT.

- 1 Operator's name and address.
- 2 Operator's OGRID number. If you do not have one, it will be assigned and filled in by the District office.
- 3 API number of this well. If this is a new drill the OCD will assign the number and fill this in.
- 4 Property code. If this is a new property the OCD will assign the number and fill it in.
- 5 Property name that used to be called 'well name'.
- 6 The number of this well on the property.
- 7 The surveyed location of this well New Mexico Principal Meridian. NOTE: If the United States government survey designates a Lot Number for this location use that number in the 'UL or lot no.' box. Otherwise use the OCD Unit Letter.
- 8 The proposed bottom hole location of this well at TD.
- 9 and 10 The proposed pool(s) to which this well is being drilled.
- 11 Work type code from the following table:

N	New well
E	Re-entry
D	Drill deeper
P	Plugback
A	Add a zone
- 12 Well type code from the following table:

O	Single oil completion
G	Single gas completion
M	Multiple completion
I	Injection well
S	SWD well
W	Water supply well
C	Carbon dioxide well
- 13 Cable or rotary drilling code

C	Propose to cable tool drill
R	Propose to rotary drill
- 14 Lease type code from the following table:

S	State
P	Private
- 15 Ground level elevation above sea level.
- 16 Intend to multiple complete? Yes or No. Attach intended well bore diagram.
- 17 Proposed total depth of this well.
- 18 Geologic formation at TD.
- 19 Name of the intended drilling company if known.
- 20 Anticipated spud date.
- 21 Proposed hole size ID inches, proposed casing OD inches, casing weight in pounds per foot, setting depth of the casing or depth and top of liner, proposed cementing volume, and estimated top of cement.
- 22 Brief description of the proposed drilling program and BOP program. Attach additional sheets if necessary.
- 23 The signature, printed name, and title of the person authorized to make this report. The date this report was signed and the telephone number to call for questions about this report.

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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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 74640	Pool Name Cemetery - Morrow
Property Code	Property Name KLINGENSMITH	Well Number 1
OGRID No. 151416	Operator Name FASKEN OIL & RANCH, LTD.	Elevation 3593'

Surface Location

UL or lot No. H	Section 24	Township 20 S	Range 24 E	Lot Idn	Feet from the 1980	North/South line NORTH	Feet from the 990	East/West line EAST	County EDDY
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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 320	Joint or Infill	Consolidation Code	Order No.						

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

				<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Tommy E. Taylor</u> Signature</p> <p>Tommy E. Taylor Printed Name</p> <p>Drilling and Production Engineer Title</p> <p>11/27/01 Date</p>	
				<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>November 12, 2001 Date Surveyed</p> <p><u>W. O. Jones</u> Signature & Seal of Professional Surveyor</p> <p>W.O. No. 2634A Certificate No. Gary Jones 7977</p> <p>Basin Surveys</p>	

Recommended Procedure

Klingensmith No. 1
1980' FNL & 990' FEL
Sec. 24, T20S, R24E
Eddy County, NM

Cemetery-Morrow
Eddy County, N.M.

1. Drilling contractor to set 20" conductor if necessary. MIRU rotary tools.
2. Drill 17-1/2" hole to 400' with spud mud. Set and cement 13-3/8" casing with 400 sx Class "C" cement with 2% CaCl_2 (s.w. 14.8 ppg, yield 1.32 ft^3/sx). WOC 12 hrs. NU 13-5/8" 3000# annular preventor.
3. Drill 12-1/4" hole to 3000' with fresh water. Control seepage with paper. Dry drill if complete loss of returns is experienced.
4. Set and cement 9-5/8" casing at 3000' with estimated 600 sx Class "C" with 4% gel and 2% CaCl_2 , (s.w. 13.50 ppg, yield 1.74 ft^3/sx) plus 200 sx Class "C" with 2% CaCl_2 (s.w. 14.8 ppg, yield 1.34 ft^3/sx). Note: If lost circulation has occurred prior to running casing, add 200 sx Thixset cement for the lead slurry. Thixset cement blend: 200 sx Class "H" with 10% A-10B, 1% CaCl_2 , 10#/sx Gilsonite, and 1/4#/sx Cello Flake (s.w. 14.6 ppg, yield 1.52 ft^3/sx).
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 H_2S monitor equipment, escape packs and briefing stations.
6. Pressure test BOP stack to 1500 psi with rig pump.
7. Upon first bit trip or before 6500', 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 9850' using fresh water to 6000' and 9.0 ppg cut brine water from 6000' to TD. Mud up at 8700' with starch and PAC mud system. Increase viscosity with prehydrated 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.
10. Log well with DLL-MSFL and CNL-LDT using Schlumberger Platform Express.
11. Set and cement 4-1/2" production casing (resin coated and centralized through pay zones) with 10 bfw + 500 gallons Mud Clean II + 10 bfw and 1100 sx Super C Modified (15#/sx Poz A and 11 #/sx CSE), 1% salt, 1.1% FL-25 (s.w. 14.2 ppg, yield 1.35 cuft/sx). Calculate cement volume for TOC at 6000'. Displace bottom plug with 5% KCl water containing 15 gallons packer fluid.
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. 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.

Klingensmith No. 1 Recommended Procedure
Page 2

17. Flow test well , evaluate, and stimulate if necessary.
18. RDPU. Clean and level location.
19. Run C.A.O.F.P. and pressure build up.
20. Connect surface equipment.

TET
(Klingensmith1drlgprc)

Recommended Casing Program

Fasken Oil and Ranch, Ltd.-----Klingensmith No. 1-----Cemetery-Morrow Field
Eddy County, NM

<u>String</u>	<u>Footage</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
Surface	400'	13-3/8"	48.00#	H-40	ST&C
Intermediate	3000'	9-5/8"	36.00#	K-55	ST&C
Production	9850'	4-1/2"	11.60#	N-80	LT&C
Tubing	9750'	2-3/8"	4.70#	N-80	EUE 8rd

