Eorm 3160-3 (April 2004)	OCD-HC	BBS	OMB1	APPROVED No. 1004-0137 March 31, 2007
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MA	INTERIOR ANAGEMENT		5 Lease Scrial N NM- のきのえら	0.
la. Type of work: X DRILL REENT	Split Estat	<u>`</u> _		agreement, Name and No
lb. Type of Well XOI Well Gas Well Other	X Single Zone Multi	D ple Zone	8 Lease Name an JCT_FEDERAL	nd Well No. 2 36 1467
2. Name of Operator	1		9 API Well No.	
THOMPSON, J. CLEO 3a. Address P.O. BOX 12577 ODESSA, TX 79768	3b Phone No(include area co (432)550-8887	> (le)	03-025- 3 10. Field and Pool, WILDCAT	or Exploratory
4 Location of Well (Report location clearly and in accorded		.*)	11. Sec., T. R. M. o	or Blk. and Survey or Area
At surface 438' FNL & 860 4' FML III · A			SEC 24 TOS D	276
14 Distance in miles and direction from nearest town or pe 23 MILES NE OF TATUM, NM	ost office*		12 County or Paris LEA	h 13 State NM
 15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16 No of acres in lease 80	17 Spac	Ing Unit dedicated t	tion Up and the system of the
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. NONE	¹⁹ Proposed Depth 12,000	20. BLM/	BIA Bond No on lite	SEP 2007 1 12
Elevations (Show whether DF, KDB, RT, GL, etc.)3965'	2.2 Approximate date work v 10/01/2007	vill start*	2 3 Estimated dirra 30 DAYS	tion OCD 2
	24. Attachments			4010
The following, completed in accordance with the requirement	ents of Onshore Oil and Gas C	Order No.1,	, shall be attached to	this form:
 Well plat certified by a registered surveyor. A Drilling Plan. 	4 Bondto cover Item 20 above	the operation	ons unless covered by	an existing bond on file (see
 A Surface Use Plan (if the location is on National Forest System Lan SUPO shall be filed with the appropriate Forest Service Office) 	nds, the 5. Operator certif	ication e specific in	formation and/or plan	s as may be required by the
25 Signature Steurn	Name(Printed/Typed) JIM STEVENS			Date 08/13/2007
Title		<u> </u>		
OPERATIONS MANAGER			······································	
Approved by (Signatury) ames Stovall	Name(Printed)(Typed)		1	Date SEP 2 0 2007
Title FIELD MANAGER Application approval does not warrant or certily that the applicant holds conduct operations thereon.	Office CARLSB	AD FIE	LD OFFICE	-
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those right:	s in the subje	APPROVAL	title the applicant to YEARS
Title18USC Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as to any matter	e it a crime for any person knowingly or within its junsdiction	and willfull	y to make to any departr	nent or agency of the Untied

*(Instructions on page 2)

1

÷.,

SEE ATTACHED FOR CONDITIONS OF APPROVAL APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

LEASE RESPONSIBILITY STATEMENT: JCT FEDERAL 24#1

J. CLEO THOMPSON and JAMES CLEO THOMPSON, JR.,L.P. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof.

٠÷ _

Sterm

J. F. Stevens Operations Manager

ã

.

- Tree-

DISTRICT 1 1625 N French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Ave., Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 DISTRICT IV 1220 St. Francis Dr., Santa Fe, NM 87505	Energy, Minerals o OIL CONS 1220 Sout Santa	of New Mexico nd Natural Resources Department ERVATION DIVISION th St. Francis Drive Fe, NM 87505	Submit t	Form C-102 vised October 12, 2005 o Appropriate District Office State Lease-4 copies Fee Lease-3 copies
API Number		D ACREAGE DEDICATION	3 Pool Name	
30-025- 38569	² Pool Code	Wildcart		
Property Code 36746	JCT ↓	FEDERAL ("24")		⁶ Well Number 1

									•	
OGRID No.					BOperator N	lome			⁹ Elevation	
11181		J. CLEO THOMPSON & JAMES CLEO THOMPSON, JR.							3965'	
					¹⁰ Surface L	ocation				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
A	24	9–S	37-E	`	438'	North	860.4'	East	Lea	
			11 B	ottom Ho	le Location If	Different From 1	Surface			
UL or lot no.	Section	Township	Ronge	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	7County	
¹² Dedicated Acres	13 Jo	int or Infill	¹ Consolic	lation Code	¹⁵ Order No.					
40										

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.

	JCT Federal "24'	#1 860.4 Aikman #1 40 ACRES	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this arganization either awns a warking interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsary pooling order heretafore entered by the division. Magnature Jim Stevens Printed Name
	4		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted 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 knowledge and belief.
		l	7/21/07 Date of Survey
Found 1/2" Iron Rod & T-Post			Signature & Seal of Professional Surveyor:
\circ 330 660 990 1320 1650 1980 2310 2640 \circ = Staked Location \cdot = Producing Well		1000 500 0	Well + = Plugged & Abandon Well

◎ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found /4 Section Corner, 1" Iron Pipe & GLO B.C.

State Plane Coordinat	es			
orthing 921072.51		Easting 917140.67		
Latitude 33'31'32 .	825"	Longitude 103'06'00.7	17"	
Zone	North American Datum	Combined Grid Factor	Coordinate File	
East	1983/Cors	0.9998847	Bledsoe83E.crd	
Drawing File		Field Book		
JCT-Federal.Dwg		N/A		

ADDITIONAL INFORMATION ON THE LOCATION

DRILLING PROGRAM J. Cleo Thompson & James Cleo Thompson, Jr., L.P. JCT Federal 24, Well #1 438' FNL & 860.4, FEL, Sec. 24, T9S, R37E Lea County, New Mexico

1. Amended Casing Program:

	Hole Si	ze <u>Settin</u>	g Depth	Csg Size & Wg	t <u>Class</u>	Grade/Jt	
	17 1/2"	0' to	o 500'	13 3/8", 48 #/ft	New	H-40/ST&C	
	12 ¼"	0' to 3	3,700'	9 5/8", 40 #/ft	New	J-55/ST&C	
	12 1⁄4"	3,700' to-5	5,100'	9 5/8", 40 #/ft	New	HCK 55/ST&C	
	8 ³ /4"	0' to 1	,000'	5 ½", 17#/ft	New	P-110/ LTC	
	8 ³ /4"	1,000' to 10),000'	5 ½", 17#/ft	New	N-80/LTC	
	8 ³ /4"	10,000' to 1	2000'	5 ½", 17 #/ft	New	P-110/LTC	
i	D ' D		G 11	1 170	D (10	т · 10	,
<u>؛</u>	Design Fac	ctors:	Collap	se: 1.175	Burst:1.2	Tension: 1.8	,

2. Amended Pressure Control Equipment:

The pressure control equipment for the 12 $\frac{1}{4}$ " hole will consist of a 13 $\frac{3}{8}$ " x 2,000 psi annular preventer. A diagram is attached. For the 8 $\frac{3}{4}$ " hole the blowout preventer equipment (BOP) will be a 12", 5,000 psi working pressure stack with both blind and pipe rams. In addition, an annular preventer rated to 5,000 psi will be installed on top of the stack. A diagram of the BOP stack and choke manifold is attached. All BOP and accessory equipment will be tested according to Onshore Order #2 before drilling out with the 8 $\frac{3}{4}$ " hole and tested weekly.

3. Amended Cementing Program:

13 3/8" Surface:	180 sxs "H" + 10% A10 + 10# LCM + ¼ # Celloflake + 1% CaCl Lead cement 228 sxs 35:65:6 "C" + 2% CaCl + ¼ # Cello + 5# LCM 1 Tail cement 200 sxs "C" + 2% CaCl. TOC at surface.
9 5/8" Int:	360 sxs H + 10% A-10 + 10# LCM-1 + 1% CaCl + ¼ # CelloFlake Lead Cement 800 sxs 50:50:10 + 5% Salt + 5# LCM-1 + ¼ # CelloFlake Tail Cement 200 sxs "C" + 2% CaCl. TOC at surface.
5 ½" Prod:	Two stage cement job w/ DV tool at +/- 7,000'. TOC: 4,000'
SPE.	1 st stage - Pump 725 sxs 15-61-11 "H" + 6% FL 52 + 5% Salt + 3# LCM. Cement yield: 1.48 cu.ft./sack 2 nd stage - pump 800 sxs 35:65:6 + 3% FL-52 + 3% SMS +2% KCL + ¼ # Cello Flake. Cement yield: 2.0 cu.ft./sack Tail Cement: pump 750 sxs C + 1% FL-62 + 3% CD-32 + .2% SMS. Cement yield: 1.31 cu.ft./sack

DRILLING PROGRAM J. Cleo Thompson & James Cleo Thompson, Jr., L.P. JCT Federal 24, Well #1 438' FNL & 860.4' FEL, Sec. 24, T9S, R37E Lea County, New Mexico

In accordance with form 3160 and our application to drill, please find the following items as included in the proposed drilling program.

1. Estimated tops of geological markers:

Rustler:	2,324'
Yates:	2,869'
Seven Rivers:	3,067'
Queen:	3,591'
San Andres:	4,149'
Glorieta	5,554'
Tubb:	6,889'
ABO:	7,624'
Wolfcamp:	8,812'
Base Three Brothers	9,321'
Cisco:	9,392'
Bough C:	9,466'
Canyon:	9,874'
Strawn:	10,424'
Atoka:	11,154'
Mississippi	11,362'
Woodford:	11,504'
Silurian:	11,606'
TD:	12,000

- 2. Estimated depths to water, oil, or gas formations.
 - Water: Surface water between 400' <u>1400</u> Typo per operator Oil: Possible in the Delaware below 5000'
 - Gas: Possible in the San Andres below 4,500 & the Wolfcamp, Strawn, Atoka and Morrow.
- **3.** Proposed Casing Program:

Hole Size Setting Depth Csg Size & Weight Grade/Joint 17 1/2" 0' to 500' 13 3/8", 48# per foot J-55/ ST&C 12 1/4" 0' to 5100' 9 5/8", 42# per foot J-55/ ST&C 8 3/4" 0' to 1,000' 5 ½", 17# per foot P-110/ LTC 8 3/4" 1,000' to 10,000' $5\frac{1}{2}$, 17# per foot N-80/ LTC 8 3/4" 10,000' to 12,000' 5 ½", 17# per foot P-110/LTC eplaced 9-14-07 15/WWI 1

DRILLING PROGRAM J. Cleo Thompson & James Cleo Thompson, Jr., L.P. JCT Federal 24, Well #1

4. Pressure Control Equipment:

ıĮ

۰, ۴

Replaced 9-14-07

The blowout preventer equipment (BOP) will be a 12", 5,000 psi working pressure stack with both blind and pipe rams. In addition a annular preventer rated to 5,000 psi will be installed on top of the stack. A diagram of the BOP stack and choke manifold is attached. All BOP and accessory equipment will be tested according to Onshore Order #2 before drilling out with the 8 $\frac{3}{4}$ " hole and tested weekly.

5. Proposed Mud Program:

500' to 2,100'Fresh Wtr8.4 to2,100' to 9,600'Cut Brine9.4 to	9.2 ppg34 to 368.5 ppg28 to 299.7 ppg28 to 299.7 ppg34 to 40	NC NC NC 10 to 6 cc

6. Proposed Cementing Program:

13 3/8" Surface:	180 sxs "H" + 10% A10 + 10# LCM + ¼ # Celloflake + 1% CaCl Lead cement 228 sxs 35:65:6 "C" + 2% CaCl + ¼ # Cello + 5#
	Tail cement 200 sxs "C" + 2% CaCl. TOC at surface.
9 5/8" Int:	Tail cement 200 sxs C + 2% CaCl. TOC at surface. Solution 100 at surface. 360 sxs H + 10% A-10 + 10# LCM-1 + 1% CaCl + 1/4 # CelloFlake Lead Cement 800 sxs 50:50:10 + 5% Salt + 5# LCM-1 + 1/4 #
	CelloFlake
	Tail Cement 200 sxs ² C" + 2% CaCl. TOC at surface.
5 $\frac{1}{2}$ " Prod:	Two stage cement job w/ DV tool at +/- 7,000'
	1 st stage Pump 725 sxs 15-61-11 "H" + 6% FL 52 + 5% Salt + 3#
	LCM.
	stage - pump 800 sxs 35:65:6 + 3% FL-52 + 3% SMS + 2%
	$KCL + \frac{1}{4} \# Cello Flake.$
	Tail Cement pump 750 sxs C + 1% FL-62 + 3% CD-32 + .2%
	SMS.
A. '1' T' '	

7. Auxiliary Equipment:

Blowout preventer, gas detector, kelly cock and stabbing valve.

DRILLING PROGRAM J. Cleo Thompson & James Cleo Thompson, Jr., L.P. JCT Federal 24, Well #1

8. Testing, Logging and Coring Program:

Drill Stem Tests:	As deemed necessary in the Devonian
Logging:	Platform Express TD to Intermediate Csg
	(Possible FMI & Repeat Formation Tester)
Coring:	No coring anticipated

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to safely handle the increased pressures. The estimated BHP is estimated to be 5100 psi with a temperature of 160 degrees.
- **10.** H2S: None expected
- 11.Anticipated Start Date:
Anticipated Drilling Time:September 20, 2007
Approximately 30 to 40 days





Exhibit #2

۰.

•

, ,

.

۰.



5000 PSI WORKING PRESSURE BLOWOUT PREVENTER STACK EXHIBIT C-1

ż

- FLOW LINE

_

٠

Ì

,

ROTATING HEAD

PAGE 13

