

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

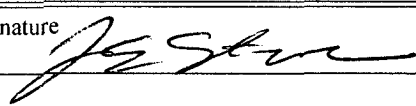
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM 02425	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator THOMPSON, J. CLEO		7. If Unit or CA Agreement, Name and No.	
3a. Address P. O. BOX 12577 ODESSA, TX 79768		8. Lease Name and Well No. (38586) CORTEZ '33'	
3b. Phone No (include area code) (432)550-8887		9. API Well No. 30- - 015-38960	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 450.3' FSL & 630' FWL (UL: M) At proposed prod. zone		10. Field and Pool, or Exploratory W/LD CAT, CISO (97851)	
11. Sec., T. R. M. or Blk. and Survey or Area SEC. 33, T-16-S, R-30-E			
14. Distance in miles and direction from nearest town or post office* 3 MILES NORTH OF LOCO HILLS, NM		12. County or Parish EDDY	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	450.3'	16. No. of acres in lease 80	17. Spacing Unit dedicated to this well 40
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	192'	19. Proposed Depth 9,000'	20. BLM/BIA Bond No. on file NM0348
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3637' GL	22. Approximate date work will start* 10/01/2010	23. Estimated duration 35 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) JIM STEVENS	Date 08/16/2010
Title OPERATIONS MANAGER		
Approved by (Signature) Is/ Don Peterson	Name (Printed/Typed)	Date DEC 21 2010
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

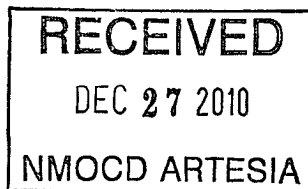
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Roswell Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

KZ 4/18/11

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

REVISED (8/26/2010)
DRILLING PROGRAM
J. Cleo Thompson & James Cleo Thompson, Jr. L. P.
Cortez '33', Well #1
350.3' FSL & 630' FWL, Section 33, T16S, R30E
Eddy 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 (Top of Salt)	630'
Tansil (Base of Salt)	1045'
Yates	1600'
Queen	2130'
San Andres	2980'
Glorietta	4450'
Abo	6290'
Wolfcamp	7600'
Cisco	8670'

2. Possible mineral bearing formations:

Water Sand	150'	Fresh Water
San Andres	2980'	Oil/Gas
Paddock	4610'	Oil/Gas
Wolfcamp (Upper)	7695'	Oil/Gas
Wolfcamp	8710'	Oil/Gas

All shows of fresh water and minerals will be reported and protected.

3. Proposed Casing Program:

<u>Hole Size</u>	<u>Setting Depth</u>	<u>Csg Size & Wgt</u>	<u>Class</u>	<u>Grade/Jt</u>
17-1/2"	0' - 450'	13-3/8", 48 #/ft	New	H-40/ST&C
11"	0' - 3300'	8-5/8", 24 #/ft	New	J-55/ST&C
7-7/8"	0' - 9000'	5-1/2", 17 #/ft	New	N-80/LTC
Design Factors: Collapse: 1.2 Burst: 1.2 Tension: 1.8				

4. Pressure Control Equipment:

— 110

Exhibit F – Intermediate and Production Casing – A minimum 11", 3000PSI working pressure BOP consisting of one set of blind rams and one set of pipe rams, a choke manifold and a 120 gallon accumulator with floor and remote operating stations as well as an auxiliary power system will be utilized. A kellycock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor. Ram-type BOP will be tested to 250 psi low and 3500 psi high by an independent service company.

The BOP unit will be hydraulically operated. Below intermediate casing shoe, BOP will be operated at least once a day while drilling and the blind rams will be operated

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on out-of-hole trips. No abnormal pressures or temperatures are expected while drilling this well.

5. Proposed Mud Program:

<u>Mud Program</u>	<u>Type</u>	<u>Mud Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0' – 450'	Fresh Water	8.3 - 9.0 ppg	34 - 38	NC
450' – 2000'	Brine	10.0 - 10.2 ppg	29 – 30	NC
2000' – 5950'	Cut Brine	8.8 - 9.2 ppg	28 - 29	NC
5950' – 6000'	Cut Brine	9.0 - 9.2 ppg	32 - 33	12 -15

6. Proposed Cementing Program:

13-3/8" Surface: 470 sacks Class C Cement + 0.25 lbs/sack Celloflake + 2% Calcium Chloride
TOC: Surface Yield: 1.34 cu.ft./sx Wgt: 14.8 ppg
Excess: 100%

8-5/8" Intermediate: *Lead Cement:* 305 sacks 50:50 Poz C + 10% gel + 5% salt + 0.25# Celloflake,
Yield: 2.45 cu.ft./sx Wgt: 11.8 ppg
Tail Cement: 200 sacks Class C Cement + 2% Calcium
TOC: Surface Yield: 1.34 cu.ft./sx Wgt: 14.8 ppg
Excess: 100%

5-1/2" Production: *Lead Cement:* 625 sxs 50/50 Poz C + 10% gel + 5% salt + 0.25 # Celloflake + 3# Kol-Seal
Yield: 2.45 cu.ft./sx Wgt: 11.8 ppg
Tail Cement: 200 sxs 50/50 Poz C + 2% gel + 5% salt + 8-10% C-16a
TOC: Surface Yield: 1.30 cu.ft./sx Wgt: 14.3 ppg
Excess: 50%

7. Auxiliary Equipment:

Blowout preventer, gas detector, kellycock and stabbing valve.

8. Testing, Logging and Coring Program:

Drill Stem Tests: None anticipated
Logging: Platform Express TD to 3000'
GR-N to Surface
Coring: None Anticipated

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9. Potential Hazards:

No abnormal pressures or temperatures are expected. The area has a potential H₂S hazard. An H₂S drilling plan is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

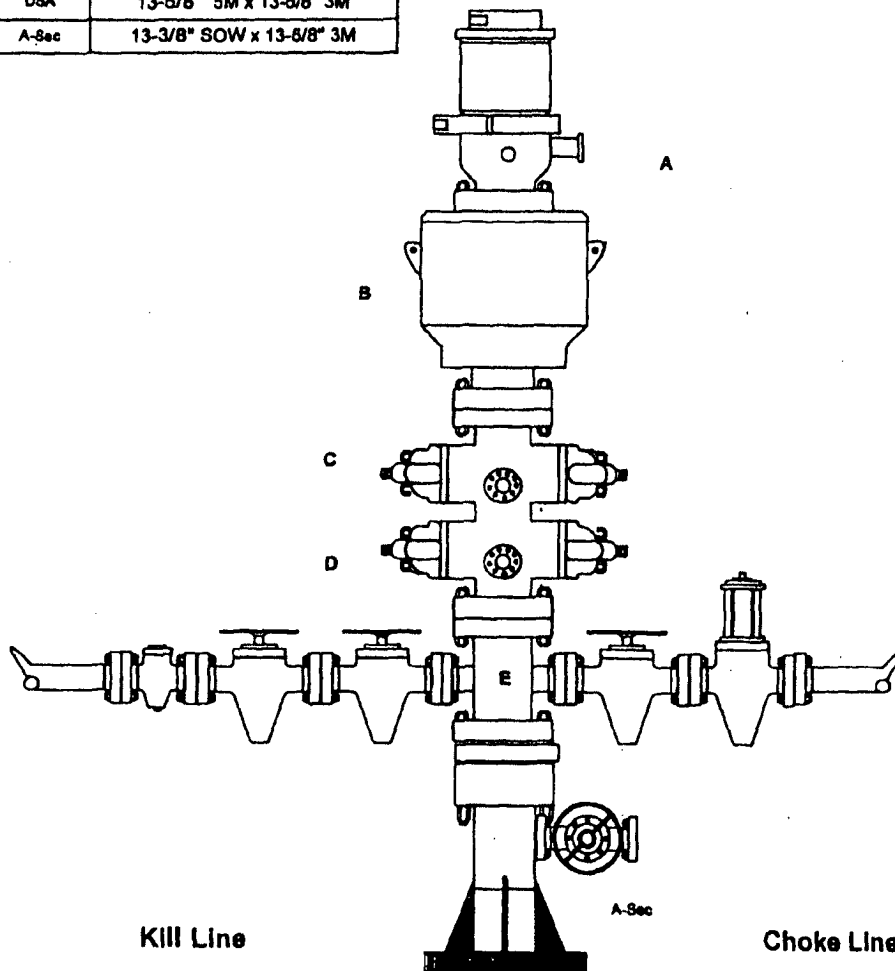
Estimated BHP	4200 psi	Estimated BHT	110°
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10. H₂S: None Anticipated

11. Anticipated Start Date: 10/01/2010
Anticipated Drilling Time: 25 days

ATTACHMENT 'F'
J. CLEO THOMPSON & JAMES CLEO THOMPSON
CORTEZ '33' WELL NUMBER 1
5-M WP BOP WITH 5-M WP ANNULAR
AND CHOKE MANIFOLD SCHEMATIC

	SIZE	PRESSURE	DESCRIPTION
A	13-5/8"	500#	Rot Head
B	13-5/8"	5,000#	Annular
C	13-5/8"	5,000#	Pipe Rams
D	13-5/8"	5,000#	Blind Rams
E	13-5/8"	5,000#	Mud Cross
OSA	13-5/8" 5M x 13-5/8" 3M		
A-Sec	13-3/8" SOW x 13-5/8" 3M		



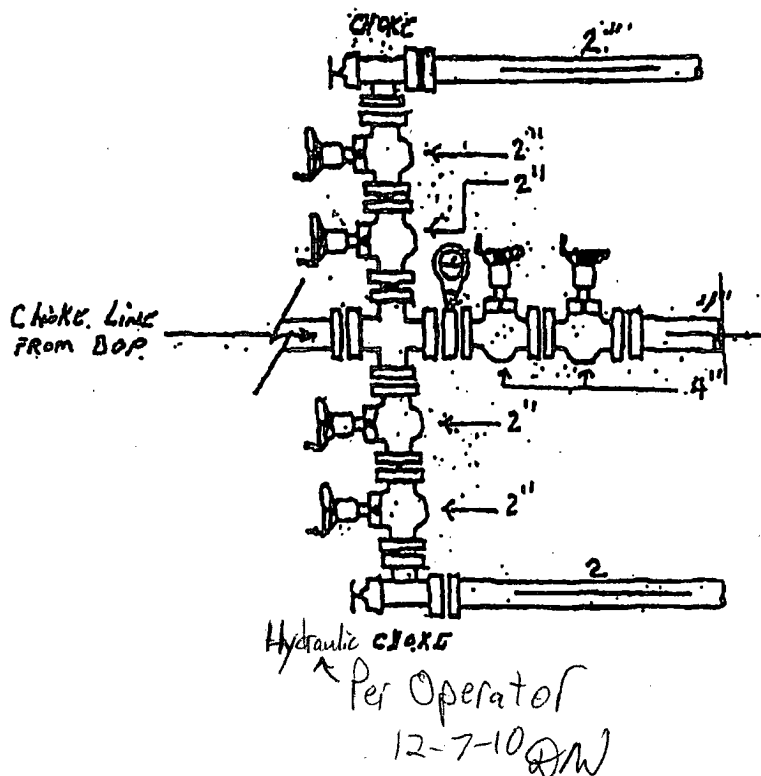
Kill Line

SIZE	PRESSURE	DESCRIPTION
2"	5,000#	Check Valve
2"	5,000#	Gate Valve
2"	5,000#	Gate Valve

Choke Line

SIZE	PRESSURE	DESCRIPTION
4"	5,000#	Gate Valve
4"	5,000#	HCR Valve

ATTACHMENT 'F'
J. CLEO THOMPSON & JAMES CLEO THOMPSON, JR., L.P.
CORTEZ '33' WELL NUMBER 1
BOP MANIFOLD SCHEMATIC



DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator J. CLEO THOMPSON OGRID # 11181
 Well Name & # CORTEZ 33 #1 Surface Type (F)(S) (P)
 Location: UL 11, Sect 33, Twnship 16 s, RNG 30 e, Sub-surface Type (F)(S) (P)

A. Date C101 rec'd / / C101 reviewed / /

B. 1. Check mark, Information is OK on Forms:

OGRID X BONDING FED PROP CODE X WELL # X SIGNATURE X

2. Inactive Well list as of: 4/18/11 # wells 57, # Inactive wells 0

a. District Grant APD but see number of inactive wells:

No letter required X; Sent Letter to Operator , to Santa Fe

3. Additional Bonding as of: / /

a. District Denial because operator needs addition bonding:

No Letter required ; Sent Letter to Operator , To Santa Fe

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ; Sent Letter to Operator , To Santa Fe

C. C102 YES X, NO , Signature X

1. Pool WILDCAT; CISCO, Code 97851

a. Dedicated acreage 40, What Units M

b. SUR. Location Standard X; Non-Standard Location

c. Well shares acres: Yes , No X # of wells plus this well #

2. 2nd. Operator in same acreage, Yes , No X

Agreement Letter , Disagreement letter

3. Intent to Directional Drill Yes , No X

a. Dedicated acreage , What Units

b. Bottomhole Location Standard , Non-Standard Bottomhole

4. Downhole Commingle: Yes , No X

a. Pool #2 , Code , Acres

Pool #3 , Code , Acres

Pool #4 , Code , Acres

5. POTASH Area Yes , No X

D. Blowout Preventer Yes X No

E. H2S Yes , No , PART FEDAPD

F. C144 Pit Registration Yes , No X need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes , No X, NSL #

2. Non-Standard Proration: Yes , No X, NSP #

3. Simultaneous Dedication: Yes , No X, SD #

Number of wells Plus #

4. Injection order Yes , No X; PMX # or WFX #

5. SWD order Yes , NO X; SWD #

6. DHC from SF ; DHC-HOB ; Holding

7. OCD Approval Date 4/18/11

API #30-015-38960

8. Reviewers KE