#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM	APPROV	ED
OMB 1	No. 1004-01	137
Expires	March 31,	2007

T C I No.	
Lease Seriai No.	
Lease Serial No. NMNM-112955	
CLUMINICAL PROPERTY	

PLICATION FOR PERMIT TO DRILL OR REENTER	6. If Indian, Allotee
I Eloanon I on I Elimi To bride on Helitain	$T^* \rightarrow T^* \otimes S^*$ .

APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or Tr	ibe Name
la. Type of work:	N/A TON ANA	t, Name and No.		
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone  Multip	ole Zone	8. Lease Name and Well N TSAH TAH 12 #2	lo.
2. Name of Operator ROSETTA RESOURCES OPERATION	NG LP		9. API Well No. 343	68
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202		10. Field and Pool, or Exploratory  BASIN FRUITLAND COAL GAS		
4. Location of Well (Report location clearly and in accordance with a At surface 1275' FNL & 1260' FWL  At proposed prod. zone SAME	my State requirements.*)		11. Sec., T. R. M. or Bik. and  12-24N-10W NMP	·
14. Distance in miles and direction from nearest town or post office* 27 AIR MILES S OF BLOOMFIELD, NM			12. County or Parish SAN JUAN	13. State NM
<ul> <li>Distance from proposed*         location to nearest         property or lease line, ft.         (Also to nearest drig. unit line, if any)     </li> </ul>	16. No. of acres in lease 1,761.69	17. Spacin	g Unit dedicated to this well  320	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  2,548' (1 #3)	19. Proposed Depth <b>1,900'</b>		BIA Bond No. on file STATE WIDE NMB0003	71
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,855' GL	22 Approximate date work will sta 08/15/2007	rt*	23. Estimated duration 2 WEEKS	
	24. Attachments			
<ol> <li>The following, completed in accordance with the requirements of Onsh</li> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).</li> </ol>	4. Bond to cover t Item 20 above). 5. Operator certific	he operation	is form:  In unless covered by an existive ormation and/or plans as may	`
25. Signature	Name (Printed/Typed) BRIAN WOOD		Date -	07/13/2007
Title	PHONE: (505) 466-8120	FAX	X: (505) 466-9682	
Approved by (Fignature)	Name (Printed/Typed)		Date	8/15/07
Application approval does not warrant or certify that the applicant hol conduct operations thereon.  Conditions of approval, if any, are attached.	·			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as		willfully to n	nake to any department or age	ncy of the United

\*(Instructions on page 2)

NOTIFY AZTEC OCD 24 HIRS PRIOR TO CASING & CEMENT

RCVD AUG 16'07 OIL CONS. DIV. DIST. 3

NMOCD 8-20-07

# State of New Mexico Energy, Minerals & Mining Resources Department

Form C - 102

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 AMENDED REPORT

٠		WE	LL LOC		-	REAGE DE	EDICATION	N PLA	AT AMENDED REPO
30-045	PA Nu		7	Pool Co 71629	de	BASIN	I FRUITI		Name COAL GASWAM
Property 3667	Code	,, <b>, , , , , , , , , , , , , , , , , ,</b>			Property TSAH	······································	4.		Well Number,
OGRID N		Operator Name Ele			tor Name			Elevation 6855'	
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Surfe Feet from	ace Location North/South	Feet from	East /V	West County
D	12	24 N.	10 W.		1275	NORTH	1260'	WES	
						cation If Dif			
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from	North/South	Feet from	East/W	West County
Dedication	Joi	nt ?	Consolid	dation			Ord	ler No.	
1260		75'   NAI   Dec   N 30	2599' 0 83 imal Degree 5.332321° 17.852663°	)   	9°56'25" E		2600'	520" E 2642"	OPERATOR CERTIFICATION I hereby certify that the informaticontained herein is true and compto the best of my knowledge and belief. Signature  Printed Name
/ 				) 				8	BRIAN WO Title  CONSULTA  Date  JULY 13, 20  SURVEYOR CERTIFICATION  I hereby certify that the well locar on this plat was plotted from fiel notes of actual surveys made by or under my supervision, and that same is true and correct to the to of my bellef. Date of Survey

S 89°51'40" W

2599'

Signature and Seel of Professional Sufferior

S 00°05'20" E

rofessional Sufference West (6844)

Submit 3 Copies To Appropriate District Office	State of New Me Energy, Minerals and Natu		Form (	C-103	
<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 <u>District II</u> 1301 W Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION		WELL API NO. 30-045- <b>3</b> 4368		
District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM	1220 South St. Francis Dr. Santa Fe, NM 87505		5. Indicate Type of Lease  STATE FEE  6. State Oil & Gas Lease No.		
87505		JG BACK TO A	NMNM-112955  7. Lease Name or Unit Agreement N	ame	
PROPOSALS.)  1. Type of Well: Oil Well	Gas Well Other	K 50CH	TSAH TAH 12  8. Well Number #2		
2. Name of Operator ROSETTA RESOURCES OPERAT	ING LP		9. OGRID Number 239235		
3. Address of Operator 1200 17 <sup>th</sup> ST., SUITE 770, DENVER	R, CO 80202		10. Pool name or Wildcat BASIN FRUITLAND COAL GAS		
4. Well Location Unit Letter: D	1275' FNL & 1260' F	FWL			
Section 12	Township 24 N R	Range 10 W	NMPM SAN JUAN County		
Pit of Below-grade Tank Application [] for	11. Elevation (Show whether DR, 6,855' GL	RKB, RT, GR, etc.)			
Pit type: <u>DRILLING</u> Depth to Groundwate		ter well: <u>&gt;1,000'</u> Distan	ce from nearest surface water: >500'		
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Const	ruction Material		
12. Check	k Appropriate Box to Indicat	e Nature of Noti	ce, Report or Other Data		
NOTICE OF INT PERFORM REMEDIAL WORK  TEMPORARILY ABANDON PULL OR ALTER CASING	FENTION TO: PLUG AND ABANDON  CHANGE PLANS  MULTIPLE COMPL	SUB: REMEDIAL WORK COMMENCE DRING CASING/CEMENT	LLING OPNS. P AND A	G 🗌	
			give pertinent dates, including estimate wellbore diagram of proposed complet		
			RCVD AUG 1	6 '07	
			OIL CONS.	DIV.	
			DIST. 3	ł	
I hereby certify that the information ab	pove is true and complete to the bes	st of my knowledge	and belief. I further certify that any pit or l	below-grade tanl	
has been/will be constructed or closed accord	. //	permit □ or an (attach DNSULTANT	ned) alternative OCD-approved plan □.  DATE: JULY 13, 2007		
Type or print name: BRIAN WOOD	E-mail address: hrian@per	mitswest com	Telephone No : (505) 466-8120		
For State Use Only	Depuţŷ (	Oil & Gas Ins District #3	pector, AUG 2 0	2007	
APPROVED BY: Conditions of Approval (if any):	TITLE_		DATE	_	

Rosetta Resources Operating LP Tsah Tah 12 #2 1275' FNL & 1260' FWL Sec. 12, T. 24 N., R. 10 W. San Juan County, New Mexico

## **Drilling Program**

## 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	5'	+6,855'
Fruitland Coal	1,705'	1,710'	+5,150'
Pictured Cliffs	1,750'	1,755'	+5,105'
Lewis Shale	1,845'	1,850'	+5,010'
Total Depth (TD)	1,900'	1,905'	+4,955'

## 2. NOTABLE ZONES

Oil & Gas Zones	<u>Water Zone</u>	•	<u>Coal Zone</u>
Fruitland	Nacimiento		Fruitland
Pictured Cliffs			

Water zones will be protected with casing, cement, and fresh water weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

#### 3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) BOP and choke manifold system will be installed and tested to 500 psi before drilling surface casing plug. It will remain in use until the well is completed or abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.



Rosetta Resources Operating LP Tsah Tah 12 #2 1275' FNL & 1260' FWL Sec. 12, T. 24 N., R. 10 W. San Juan County, New Mexico

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to check mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

#### 4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
8-3/4"	7"	23#	J-55	ST&C	New	120'
6-1/4"	4-1/2"	10.5#	J-55	LSST&C	New	1,900'

Surface casing will be cemented to the surface with  $\approx 35$  cubic feet ( $\approx 30$  sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl<sub>2</sub>. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Will use API casing dope.

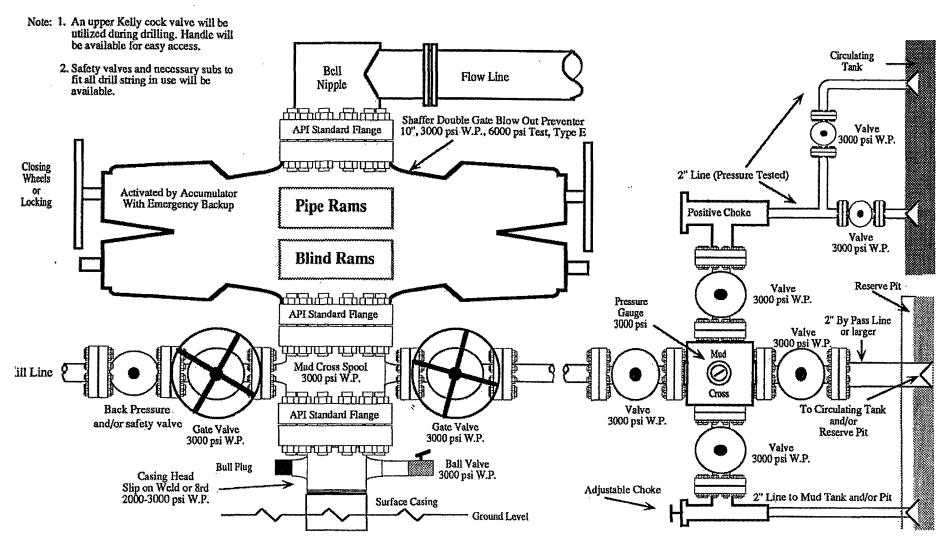
Production casing will be cemented to the surface with  $\approx 348$  cubic feet ( $\approx 295$  sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl<sub>2</sub>. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Five or more centralizers will be used. Volume = 75% excess.

#### 5. MUD PROGRAM

A nine pound polymer and fresh water mud system with a viscosity of ≈35 will be used. Sufficient material to maintain mud qualities, control lost circulation, and contain a blowout will be available at the well while drilling.



# 2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Rosetta Resources Operating LP Tsah Tah 12 #2 1275' FNL & 1260' FWL Sec. 12, T. 24 N., R. 10 W. San Juan County, New Mexico

# 6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR log may be run from TD to surface. CNL/FSC log may be run over certain intervals.

# 7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be  $\leq$ 760 psi.

### 8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take  $\approx 2$  weeks to drill and complete the well.



