Form 3160 -3 (April 2004)

3

RECEIVED

RCVD FEB 11'08 OIL CONS. DIV.

DIST. 3 FORM APPROVED OMB No. 1004-0137 Expues March 31, 2007

UNITED STATES DEPARTMENT OF THE INTERIOR

DEC 2 7 2007

5. Lease Serial No.

BUREAU OF LAND MAN	AGEMENT	ireau oi Latiu ivia	mayeme	nt NMNM-62969		
APPLICATION FOR PERMIT TO	DRILL OR	REENTER	d Office	6. If Indian, Allotee N/A	or Tribe N	Name
1a. Type of work: ✓ DRILL REENTER			7 If Unit or CA Agreement, Name and No. N/A			
lb. Type of Well:				8. Lease Name and Well No. TSAH TAH 3 #3		
2. Name of Operator ROSETTA RESOURCES OPERATING	-	<u> </u>		9. API Well No. 30-045-	1552	•
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202		(ınclude area code) 59-9144		10. Field and Pool, or BASIN FRUI		•
4. Location of Well (Report location clearly and in accordance with an	y State requireme	ents.*)		11. Sec., T. R. M. or E	3lk. and Sur	vey or Area
At surface 1310' FSL & 990' FWL At proposed prod. zone SAME	•	,		/∕ 3-24N-10W N	MPM	
				12. County or Parish		13. State
 Distance in miles and direction from nearest town or post office* 9 AIR MILES NW OF NAGEEZI, NM 				SAN JUAN		NM
15. Distance from proposed* location to nearest	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this	well	-
property or lease line, ft. (Also to nearest drig. unit line, if any) 990'	563.14		S2 (32	20 acres)		
18. Distance from proposed location*	19. Proposed	Depth	20. BLM/I	BIA Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. 746' (oil well 13-3 #1)	2,000'	BLM STATE		STATE WIDE NMI	TE WIDE NMB000371	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,962' GL	22. Approxim	22. Approximate date work will start* 01/15/2008		23. Estimated duration 2 WEEKS		
	24. Attac	hments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be at	ttached to the	is 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	Bond to cover the litem 20 above). Operator certification.	•	ns unless covered by an	ı existing b	oond on file (see
SUPO shall be filed with the appropriate Forest Service Office).			specific info	ormation and/or plans a	s may be re	equired by the
25. Signature	1	(Printed/Typed)			Date	20007
Title		BRIAN WOOD			12/2	22/2007
CONSULTANT	PHONI	E: (505) 466-8120	FAX	K: (505) 466-9682		···
Approved by. (Signature)	Name	(Printed/Typed)			Date	17/08
Title Acting AFM Muscal	Office					· /
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	s legal or equit	table title to those righ	ts in the sub	ject lease which would	entitle the a	applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a ci States any false, fictitious or fraudulent statements or representations as			villfully to n	nake to any department	or agency	of the United
*(Instructions on page 2)	1		Douglas	G OPERATIONS AUT		ADE
APPROVAL OR ACCEPTANCE OF THIS N DOES NOT RELIEVE THE LESSEE AND TOR FROM OBTAINING ANY OTHER	BIREO		SUBJEC	T TO COMPLIANCE V AL REQUIREMENTS"	ATTA HTIV	ACHED

BLM'S ACTIO **OPERA AUTHORIZATION REQUIRED FOR OPERATIONS** ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

MWUUU

FEB 1 2 2008

AV

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4

1625 N. French Dr., Hobbs, N.M. 68240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease — 4 Copies Fee Lease — 3 Copies

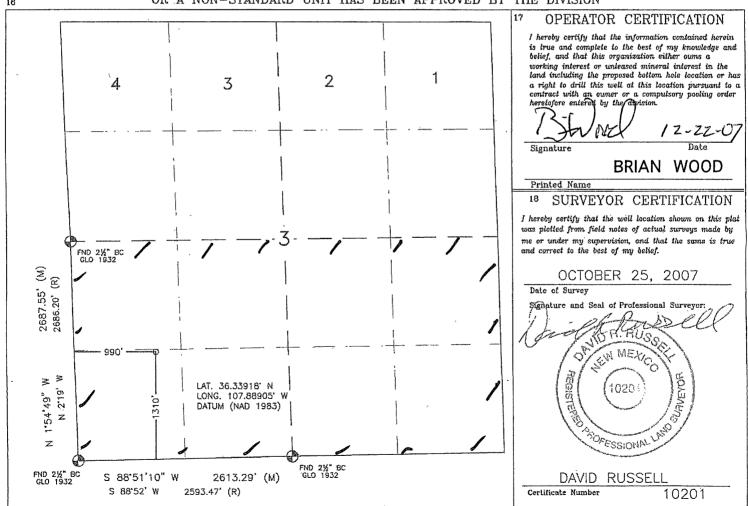
☐ AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

	WELL LOCA'	TION AND ACREAGE	DEDICATION F	PLAT
· ¹ API Number	² Pool	Code	a Pool Na	ame
30-045-	34552 716	29 BASIN	I FRUITLAND	COAL GAS
Property Code		⁵ Property Name		⁶ Well Number
-36124	•	TSAH TAH 3		-3
GRID No.		⁸ Operator Name		² Elevation

239	235	ROSÉTTA RESOURCES OPERATING LP							6962'
	¹⁰ Surface Location								
UL or let no.	Section	Township						East/West line	County
M	3	24N	10W		1310'	SOUTH	990,	WEST	SAN JUAN
11 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
13 Dedicated Acre		<u></u>	is Joint or	Infill	14 Consolidation	Code	15 Order No.	1	
		320				С		,	

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



 Submit 3 Copies To Appropriate District Office 	State of New M			Form C-103 May 27, 2004
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Nat	urai Resources	WELL API NO.	
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	N DIVISION	30-045- 345	
District III	1220 South St. Francis Dr.		5. Indicate Type STATE	of Lease FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 8	37505	6. State Oil & Ga	
1220 S. St. Francis Dr , Santa Fe, NM 87505	·		NMNM-62969	
SUNDRY NOT	ICES AND REPORTS ON WELL		7. Lease Name of	r Unit Agreement Name
	OSALS TO DRILL OR TO DEEPEN OR PL CATION FOR PERMIT' (FORM C-101) F		TSAH TAH 3	
1. Type of Well: Oil Well	Gas Well Other		8. Well Number	, #3
2. Name of Operator ROSETTA RESOURCES OPERA	TING LP		9. OGRID Numb	per 239235
3. Address of Operator 1200 17 th ST., SUITE 770, DENV			10. Pool name or BASIN FRUITLA	
4. Well Location				
Unit Letter: M	1310' FSL & 990' F	FWL		÷*
Section 3			NMPM SAN JU	JAN County
	11. Elevation (Show whether DI 6,962' GL)	
Pit or Below-grade Tank Application		-		
Pit type: DRILLING Depth to Groundw	ater: <u>>500'</u> Distance from nearest fresh w	vater well: ≥1,000' Dista	nce from nearest surfac	e water: <u>>400'</u>
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls	Construction Material: 5	SYNTHETIC
12. Check	Appropriate Box to Indicate 1	Nature of Notice	, Report or Other	Data
	NTENTION TO:		BSEQUENT RE	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR		ALTERING CASING
TEMPORARILY ABANDON	CHANGE PLANS		RILLING OPNS.	P AND A
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMEN	IT JOB 🔲	
OTHER: DRILLING PIT	m/	OTHER:		П
	pleted operations. (Clearly state all		1 give pertinent dates	i, including estimated date
of starting any proposed w	ork). SEE RULE 1103. For Multip			
or recompletion.				
		*		
I hereby certify that the information	above/lis true and complete to the b	est of my knowledg	e and belief. I further	certify that any pit or below-
grade tank has been/will be constructed d	· closed according to NMOCD guidelines	🗓, a general permit 📋	or an (attached) alterna	ative OCD-approved plan □.
SIGNATURE_	TITLE: C	ONSULTANT	DATE: DE	CEMBER 22, 2007
Type or print name: BRIAN WOOI) F-mail address: hrian@n	ermitswest com	Telephone N	o.: (505) 466-8120
For State Use Only	E-mail address: brian@po	eputy Oil & G	as Inspector, ``	(505) 100 0120
49	_/4/	Distric	l #3	EEB 1 2 2000
APPROVED BY: Conditions of Approval (if any):	TITLE	rase described to some		DATE

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,962'
Ojo Alamo Sandstone	932'	937'	+6,030'
Kirtland Shale	1,087'	1,092'	+5,875'
Fruitland Coal	1,732'	1,737'	+5,230'
Pictured Cliffs	1,752'	1,757'	+5,210'
Lewis Shale	1,972'	1,977'	+4,990'
Total Depth (TD)	2,000'	2,005'	+4,962'

2. NOTABLE ZONES

Oil & Gas Zones	Water Zone	Coal Zone
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.

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	2,000'

Surface casing will be cemented to the surface with ≈35 cubic feet (≈30 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. 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 ≈ 366 cubic feet (≈ 310 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. 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.



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

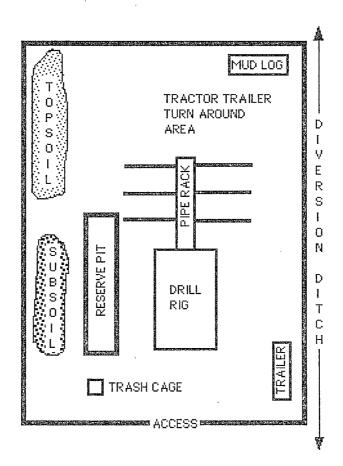
No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 800 psi.

8. OTHER INFORMATION

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

)



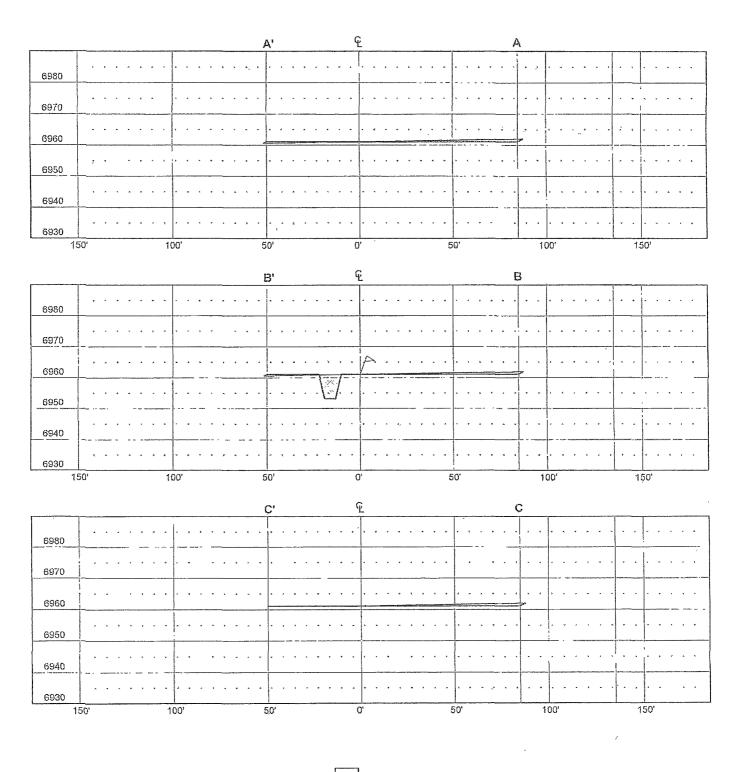






ROSETTA RESOURCES OPERATING LP

TSAH TAH 3 #3
1310' FSL & 990' FWL
LOCATED IN THE SW/4 SW/4 OF SECTION 3,
T24N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6962', NAVD 88
FINISHED PAD ELEVATION: 6961.8', NAVD 88

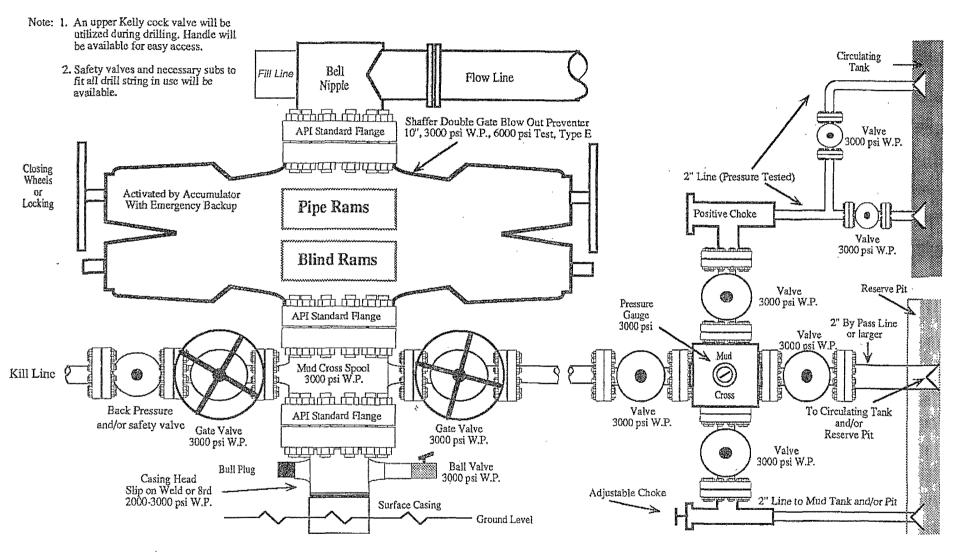


VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: RRO032 DATE: 11/08/07



Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

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.