Form 3160-3 (April 2004)

RECEIVED

FORM APPROVED * 3

OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES	WIAIN &	8 2000	Expires ina	10131, 2007
DEPARTMENT OF THE I	NTERIOR Bureau of Lanc	Manage	5. Lease Serial No. ment _{NMNM-62970}	
BUREAU OF LAND MAN.	rannington	Field Off	6. If Indian, Allotee of	or Tribe Name
APPLICATION FOR PERMIT TO	DRILL OR REENIER		N/A	
la. Type of work: DRILL REENTE	R		7. If Unit or CA Agrees N/A	ment, Name and No.
lb. Type of Well: ☐Oıl Well ☐Gas Well ☐Other	Single Zone Multip	le Zone	8. Lease Name and W TSAH TAH 4#	
2. Name of Operator ROSETTA RESOURCES OPERATING	G LP		9. API Well No. 30-045-346	72
3a. Address 1200 17th ST., SUITE 770 DENVER, CO 80202	3b. Phone No. (include area code) (720) 359-9144			xploratory LAND COAL GAS
4. Location of Well (Report location clearly and in accordance with any	State requirements.*)		11. Sec., T. R. M. or Blk	and Survey or Area
At surface 1302' FNL & 1177' FEL At proposed prod. zone SAME	Lot	1	A 4-24N-10W NM	(PM
14. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State
10 AIR MILES NW OF NAGEEZI, NM	pe		SAN JUAN	NM
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of acres in lease	, -	g Unit dedicated to this we	17/2
(Also to nearest drig. unit line, if any) 1,177'	322.00		S2NE4, and LOTS 1 &	: 2 (= 322.00 acres) 1/2/
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 875' (oil well 4-32)	19. Proposed Depth 1,900'		BIA Bond No. on file STATE WIDE NMB0	000371
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,847' GL This action is subject to technical and	22. Approximate date work will sta 04/15/2008	rt*	23. Estimated duration 2 WEEKS	Annual Control of the
procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165 4 The following, completed in accordance with the requirements of Onshor	24. Attachments		. c SUBJECT TO	ERATIONS AUTHORIZED ARE COMPLIANCE WITH ATTACHED
The following, completed in accordance with the requirements of Onshor	e On and Gas Order No.1, shan be a	nached to in	"GENERAL R	EQUIREMENTS".
 Well plat certified by a registered surveyor. A Drilling Plan. 	4. Bond to cover t Item 20 above).	he operation	ns unless covered by an e	xisting bond on file (see
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans as i	nay be required by the
25. Signature	Name (Printed/Typed) BRIAN WOOD		I	Date 03/22/2008
Title	PHONE: (505) 466-8120	FAX	X: (505) 466-9682	
Approved by (Signature)	Name (Printed/Typed)			Date 1/2 / 88
Title Title	Office FEO			1151/-1
Application approval does not warrant or certify that the applicant hold	s legal or equitable title to those righ	ts in the sub	ject lease which would en	title the applicant to

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)

conduct operations thereon.

Conditions of approval, if any, are attached.

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

APR 2 4 2008

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

Submit (10 Appropriate District Office State Lease – 4 Copies OIL CONSERVATION DIVISION EC State Lease - 4 Copies Fee Lease - 3 Copies

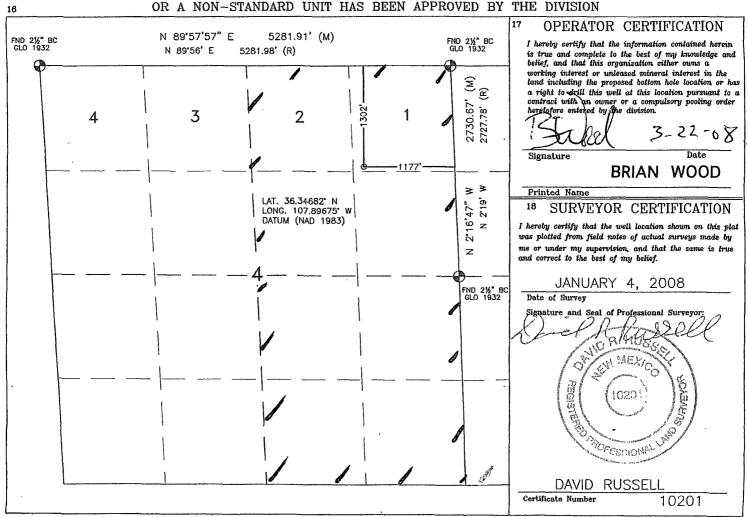
1220 South St. Francis Dr.

MAR 2 7 2008

DISTRICT IV	, Aztec, I	N,M. 07410		122	Santa F	'e, NM			MAR 2 7 21	[] A1	MENDED REPO
1220 S. St. Francis	Dr., Sant					. ~-		- Brite:	au or Land Mar GARTONFiep	agement	WEIGHDED TOLL OF
		W	ELL	LOCATION	N AND	ACF	REAGE	DEDE	GANGON-18P	LAT	
30-04	ահեր 45- <i>3</i>	4672		*Pool Code 71629			#		°Pool Nan ASIN FRUITLAN	16	
⁴ Property Code	e				5 Pro	perty N	ame				⁶ Well Number
3712	8	TSAH TAH 4				-1					
7 OGRID No.		JAHHHANA			^a Op∈	erator N	ame				⁹ Elevation
2392	35			ROSET	TA RESO	URCES	OPERAT	ING LP			6847*
					10 Surf	lace l	Location	ı			3
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/Sou	th line	Feet from the	East/West lin	e County

10W | (1) 1302' **NORTH EAST** 24N 1177' SAN JUAN ¹¹ Bottom Hole Location If Different From Surface Range Feet from the North/South line Feet from the East/West line UL or lot no. Section Township County 13 Joint or Infill 14 Consolidation Code 16 Order No. 12 Dedicated Acres 322.00

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



Subsection Oil CONSERVATION DIVISION Subsection Oil CONSERVATION DIVISION Oil CONSERVATION DIVISION DIVISION Oil CONSERVATION DIVISION Oil CONSERVATION DIVISION DIVISION Oil CONSERVATION DIVISION Oil CONSERVATION DIVISION	Office	State of New Me Energy, Minerals and Natu		F	orm C-103 May 27, 2004	
District	<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Williams and Patenti Pessources		WELL API NO.		
1. Type of Wells Of Operator 1. Several on Show whether DR, RKB, RT, GR, etc.] 1. Several on Show whether DR, RKB, RT, GR, etc.] 1. Several on Show whether DR, RKB, RT, GR, etc.] 1. Several on Show whether DR, RKB, RT, GR, etc.] 1. Several on Show of Operator 1. Several on Show whether DR, RKB, RT, GR, etc.] 1. S	District II	OIL CONSERVATION	DIVISION			
Doo Rio Brazo Rd. Asias. NM 87410 Santa Fe, NM 87505 Some Pends Dr. Somb Pe						
Depart Felow and Talk Amsterds Default Description Depart for Number Description Descrip					<u>L</u>	
DON NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEFERNOR PLUG BACK TO A DIFFERENT EXERCIVE. USE "ATMICATION FOR PERMIT" CORMC-101) FOR SUCH	1220 S. St. Francis Dr., Santa Fe, NM	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
DIFFERENT RESERVOR. USE "APPLICATION FOR PERMIT" (ORMC-101) FOR SUCH TSAH TAH 4				7. Lease Name or Unit Agreen	nent Name	
1. Type of Well: Oil Well Gas Well Other St. Well Number 120	DIFFERENT RESERVOIR. USE "APPLI					
Note		Gas Well U Other		8. Well Number #1		
1200 17th ST., SUITE 770, DENVER, CO 80202 BASIN FRUITI.AND COAL GAS	ROSETTA RESOURCES OPERA	ATING LP				
Unit Letter: LOT 1 Section 4 Township 24 N Range 10 W NMPM SAN JUAN County 11. Elevation (Show whether DR, RKB, RT, GR, etc.)	3. Address of Operator 1200 17 th ST., SUITE 770, DENV	ER, CO 80202			GAS	
Section 4 Township 24 N Range 10 W NMPM SAN JUAN County	4. Well Location					
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,847° GL Pit type:	Unit Letter: LOT 1	1302' FNL & 11	77' FEL			
Signature Second	Section 4	Township 24 N R	ange 10 W	NMPM SAN JUAN Cou	inty	
Pit type Delph to Groundwater: 2500 Distance from nearest fresh water well: 21000 Distance from nearest surface water: 2200	A STATE OF THE SECOND	· · · · · · · · · · · · · · · · · · ·	RKB, RT, GR, etc.		100	
Pit type: DRILLING Depth to Groundwater:				And the second s		
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbb Construction Material: SYNTHETIC						
12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON CHANGE PLANS COMMENCE DRILLING OPNS PAND A PULL OR ALTER CASING MULTIPLE COMPL OTHER: OTHER: DRILLING PIT OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. I hereby certify that the information pook is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be construkted of dysed according to NMOCD guidelines 27. a general permit or an (attached) alternative OCD-approved plan SIGNATURE TITLE: CONSULTANT DATE: MARCH 22, 2008 Type or print name: BRIAN WOOD E-mail address: brian@permitswest.com Telephone No.: (505) 466-8120 Deputy Oil & Gas Inspector, District #3 DATE APR 2 4 2008						
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APPROVED BY: Deputy Oil & Gas Inspector, District #3 DATE Deputy Oil & Gas Inspector, District #3	I hereby certify that the information grade tank has been/will be constructed of	above is true and complete to the be	st of my knowledge ∤, a general permit □	and belief. I further certify that any or an (attached) alternative OCD-appr	pit or below- oved plan □.	
APPROVED BY: Deputy Oil & Gas Inspector, District #3 DATE APR 2 4 2008	grade tank has been/will be constructed of	closed according to NMOCD guidelines [, a general permit 🗌	or an (attached) alternative OCD-appr	oved plan □.	
APPROVED BY: District #3 DATE APR & 4 2009	SIGNATURE Type or print name: BRIAN WOOL	TITLE: CO E-mail address: brian@per	Ka general permit □ DNSULTANT :mitswest.com	or an (attached) alternative OCD-appr DATE: MARCH 22, 200 Telephone No.: (505) 466-	oved plan □. 8	
Conditions of Approval (if any):	SIGNATURE Type or print name: BRIAN WOOL	TITLE: CO E-mail address: brian@per	Ka general permit □ ONSULTANT mitswest.com Deputy Oil &	DATE: MARCH 22, 200 Telephone No.: (505) 466- Gas Inspector,	oved plan □. 8 .8120	

Rosetta Resources Operating LP Tsah Tah 4 #1 1302' FNL & 1177' FEL Sec. \$, T. 24 N., R. 10 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	0'	5'	+6,847'
Fruitland Coal	1,642'	1,647'	+5,205'
Pictured Cliffs	1,657'	1,662'	+5,190'
Lewis Shale	1,847'	1,852'	+5,000'
Total Depth (TD)	1,900'	1,905'	+4,947'

2. NOTABLE ZONES

<u>Oil & Gas Zones</u>	<u>Water Zone</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Picturad Cliffe		

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 4 #1 1302' FNL & 1177' FEL Sec. 3, 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 ≈ 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 ≈ 348 cubic feet (≈ 295 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. <u>MUD PROGRAM</u>

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.



Rosetta Resources Operating LP Tsah Tah 4 #1 1302% FNL & 1177' FEL Sec. 3, 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

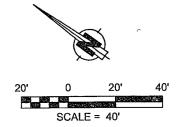
The anticipated spud date is upon approval. It is expected it will take ≈ 2 weeks to drill and complete the well.

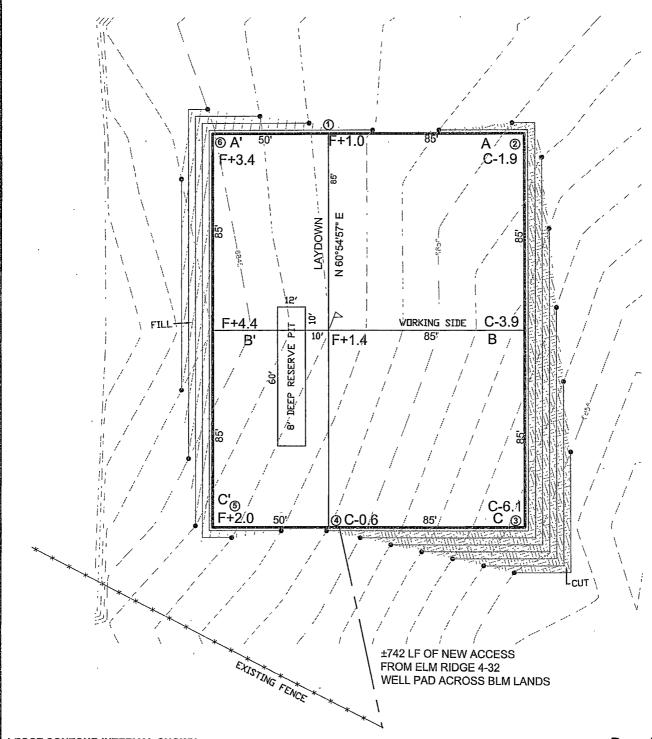


LATITUDE: 36.34682°N LONGITUDE: 107.89675°W DATUM: NAD 83

ROSETTA RESOURCES OPERATING LP

TSAH TAH 4 #1
1302' FNL & 1177' FEL
LOCATED IN THE NE/4 NE/4 OF SECTION 4,
T24N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6847', NAVD 88
FINISHED PAD ELEVATION: 6848.4', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

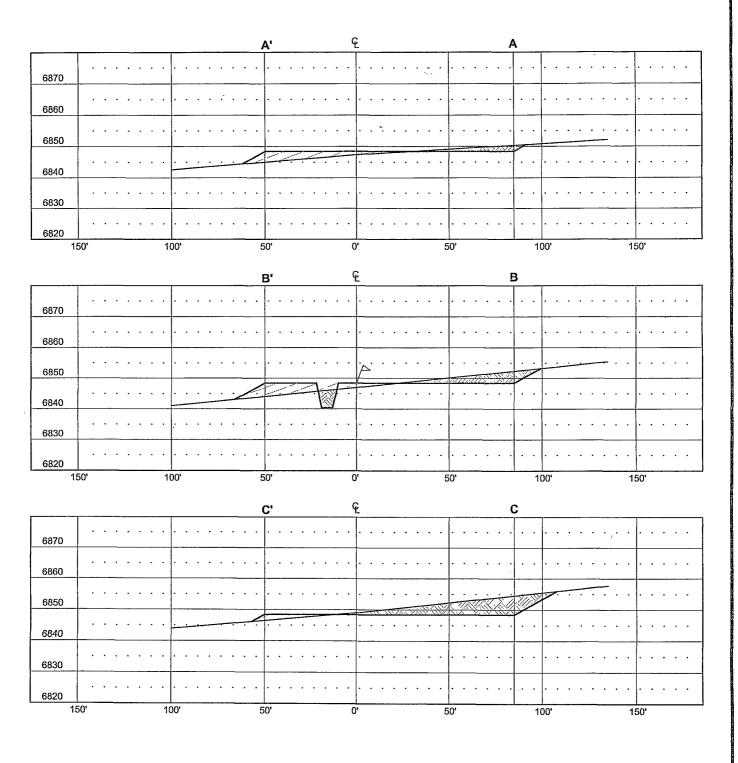
SCALE: 1" = 40' JOB No.: RRO033 DATE: 01/16/08



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

ROSETTA RESOURCES OPERATING LP

TSAH TAH 4 #1
1302' FNL & 1177' FEL
LOCATED IN THE NE/4 NE/4 OF SECTION 4,
T24N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6847', NAVD 88
FINISHED PAD ELEVATION: 6848.4', NAVD 88



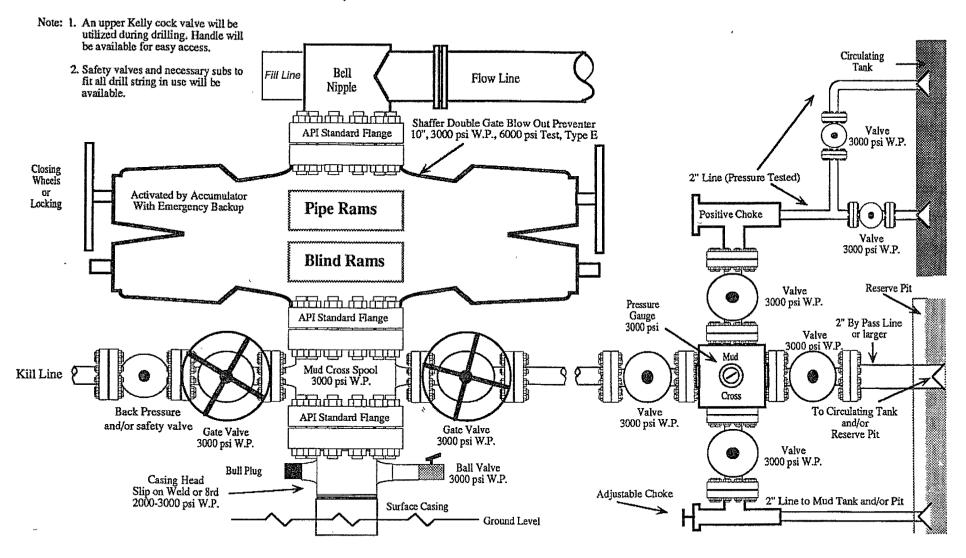
VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: RRO033 DATE: 01/16/08





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.

Form 3160-5 (April 2004)

UNITED STATES

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

	DEPARTMENT OF THE		APK	1 8 ZUU8		Expires: March 31, 2007
	BUREAU OF LAND MAN		u of i a	ind Managemen	5. Lease Seri	
SUNDRY	NOTICES AND REF	ORTS ON	ImWell	Sield Office	NMNM	
Do not use th	nis form for proposals t ell. Use Form 3160-3 (/	o drill or to	o re-ei	nter an	6. If Indian	, Allottee or Tribe Name
				, , , , , , , , , , , , , , , , , , ,	N/A	
SUBMIT IN TR	IPLICATE- Other instr	uctions on	revers	se side.	7. If Unit o	r CA/Agreement, Name and/or No.
1. Type of Well	3				N/A	
Oil Well	Gas Well Other				8. Well Na	
2. Name of Operator ROSETTA R	RESOURCES OPERATING L	,P				TAH 4#1
3a. Address		3b. Phone No.	Grahida	grag goda)	9. API W	-34672
1200 17th ST., SUITE 770, DE	NVER, CO 80202	720 359-91		urea coaej		nd Pool, or Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)					FRUITLAND COAL GAS
1302' FNL & 1177' FEL 4-24P	N-10W NMPM				11. County	or Parish, State
·					SAN J	UAN COUNTY, NM
12 CUECY AI	PPROPRIATE BOX(ES) TO	DIDICATE	T A TT ID	E OF MOUTOR D	EDORT OF	R OTHER DATA
	TROFRIATE BOA(ES) TO				EFORT, OF	COMER DATA
TYPE OF SUBMISSION			TYP_	E OF ACTION		
Notice of Intent	Acidize	Deepen		Production (St	art/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	Fracture Tre	at	Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Constr		Recomplete		Other CHANGE BOP
Final Abandonment Notice	Charge I min	Plug and Ab	oandon	Temporarily A		
	Convert to Injection	Plug Back		Water Disposal		
following completion of the investing has been completed. Fit determined that the site is ready CHANGE BOP	nal Abandonment Notices shall be	results in a multip filed only after al	ple compl Il requiren	letion or recompletion nents, including reclan	in a new interv nation, have be	al, a Form 3160-4 shall be filed once en completed, and the operator has
						RCVD APR 23 '08
						OIL CONS. DIV.
						DGT. 3
on DIM Comphell						
cc: BLM, Campbell						
14. I hereby certify that the fore Name (Printed/Typed)	going is true and correct	1				
BRIAN WOOD	(PHONE 505 46	6-8120)	Title C	ONSULTANT		(FAX 505 466-9682)
Signature		,	Date		04/12/2008	
	THIS SPACE FOR	FEDERAL	OR S	TATE OFFICE	USE	
Americad by Americad by	Mankes 10	725)	T.	itle AEM		Date 4/2/08
Approved by Conditions of approval, if any, are		/		m / (c /0)		1/2/1/
			- 1			

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. 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)

Office

Chihuahua Rig #201 BOP Testing Procedure.

Refer to the attached diagram for the bradenhead and BOP configuration. No mud cross will be utilized. The choke manifold will be connected to one side of the bradenhead. Connect the third-party testing company's test truck to the opposite side of the bradenhead.

Kill Line Valve:

Connect the test truck to the kill line valve and pressure test the valve to 250 psig low and 1,000 psig high. Test each pressure for 10 minutes.

Blind Rams:

Close the blind rams and open the bradenhead valve to the choke manifold. Have all three of the choke manifold valves closed. Pressure test the blind rams, casing, bradenhead, and choke manifold to 250 psig low and 1,000 psig high. Test each pressure for 30 minutes. A successful test will not have more than a 10% drop during the 30 minute test period.

If the test is successful proceed with the pipe ram test.

If the test is not successful, open the blind rams and install the test plug at the bottom of the bradenhead (the test plug seal is below the two valves on the bradenhead). Close the bradenhead valve to the choke manifold. Pressure test the blind rams and bradenhead to 250 psig low and 1,000 psig high. Open the bradenhead valve to the choke manifold and repeat the test. If theses test fail with no obvious leaks at either the blind rams or the choke manifold, remove the test plug and run a 7" packer into the first joint of casing and repeat both tests. Use caution when pulling the test plug if pressure is trapped below the plug. Recommend closing the pipe rams and opening the bradenhead valve to the choke manifold before trying to pull the test plug.

Pipe Rams:

Install the TIW valve on the bottom of one joint of drill pipe. Run the one joint into the well and close the pipe rams. Chain down the joint of drill pipe but leave the top of the pipe open. With the bradenhead valve open and the test truck still connected to the other side of the bradenhead, test the pipe rams to 250 psig low and 1,000 psig high. Hold each pressure for 30 min with no more than a 10% drop during the test period.

Upper Kelly Cock:

Install the TIW valve to the bottom of the Kelly. Install the test truck to the TIW Valve. With the TIW valve closed, pressure test the TIW valve to 250 psig low and 1,000 psig high for 10 minutes. Open and the TIW valve and close the upper Kelly cock. Pressure test the Kelly and upper Kelly cock to 250 psig low and 1,000 psig high. Hold each pressure for 10 minutes with 0% drop during the test.

"2M" BLOWOUT PREVENTER SYSTEM

