Form 3160-3 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0137 DIL CONS.-DIV. Expires March 31, 2007

DIST. 3

APPLICATION FOR PERMIT TO DRILL OR REENTER					5.	5. Lease Serial No. NM-09840			
la. Type of Work	rk DRILL REENTER			ER		6.	6. If Indian, Allotee or Tribe Name		
lb. Type of Weli	Oil Well	X Gas Well	Other		2006 DEC 12 Multiple Zon	10 1 3 .	Unit or CA	Agreeme	ent Name and No.
2. Name of Operato	г				RECEIVED	8	Lease Name	and We	il No
Energen Resou	rœs Corpora	ation			070 510 110 110	1	Tibbar I		
Ba. Address					3b. Phone No. (include area co	ode) - 79.	API Well No		71110
2198 Bloomfie Location of Well	Ald Hwy Far	mington, NM	87401	ite enni	505.325.6800		30-00	15	34108
A	•	•	raunce min any bia	ne equi	remems)	10.	Field and Po Basin Da	•	xploratory
711 341 1400 10	43' fsl, 134	O, EMT				11.			Blk. and Survey or Are
At proposed prod.	zone						(N) S24		
4. Distance in miles a	nd direction from	nearest town or po	ost office*			12.	County or P		13. State
		-		st. of			n Juan		NM
15. Distance from pro				-	No. of Acres in lease		ng Unit dedic	ated to	
location to nearest		1043	1		1440		w/2 320		
`				+					
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.			19.1	Proposed Depth 6789'	20.BLM	20. BLM/BIA Bond No. on file			
(1)/		Approx							
21.Elevations (Show	whether DF, KDB	, RT, GL, etc.		22.	22. Approximate date work will start*		23. Estimated duration		
6432' GL					2/20/07			15	days
 Well plat certified A Drilling Plan A Surface Use Plan 	d by a registered so	urveyor. is on National For	est System Lands, th		4. Bond to cover the opera Item 20 above). 5. Operator certification. 6. Such other site specific is authorized officer.	tions unless	covered by		
5. Signuature			1	Name (Printed/Typed)			Date	
1) Har	Į,		İ	Nathan Smith					12/05/06
Title Drilling En Approved by (Signau)			11	Name (Printed/Typed)			Date	
Il Mayleders					1/9/87				
Of AFM			Office)ffice FFO			/		
		or certify that the	applicant holds leg	al or e	quitable title to those rights in	the subject	lease which	would	entitle the applicant to
conduct operations the Conditions of approve		hed. Min	. 130PE	. 4	est require	لسمسا	÷:-	つごり	4
Fitle 18 U.S.C. Section States any false, fictit	on 1001 and Title oous or fraudulent	43 U.S.C. Section statements or repr	1212, make it a crin esentations as to any	ne for a	nny person knowlingly and willf r within its jurisdiction.	ully to mak	e to any depa	artment	or agency of the United
(Instructions on pag	e 2)				1/	<u> </u>		-	
4/.					1/				
] /3	S UBUEC'	G OPERATIONS A T TO COMPLIANC AL REQUIREMENT	E WITH ATTACHED		This action is procedural read appear	eview pursu	ant to 43 CF	1 d FR 3165	.3

NMOCD 1/11/07

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

State of New Mexico

Form C-102

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION DE Submit to Appropriate District Office

Revised October 12, 2005

1220 South St. Francis Dr.

State Lease - 4 Copies

Santa Fe, NM 87505

RECEIVED Fee Lease - 3 Copies

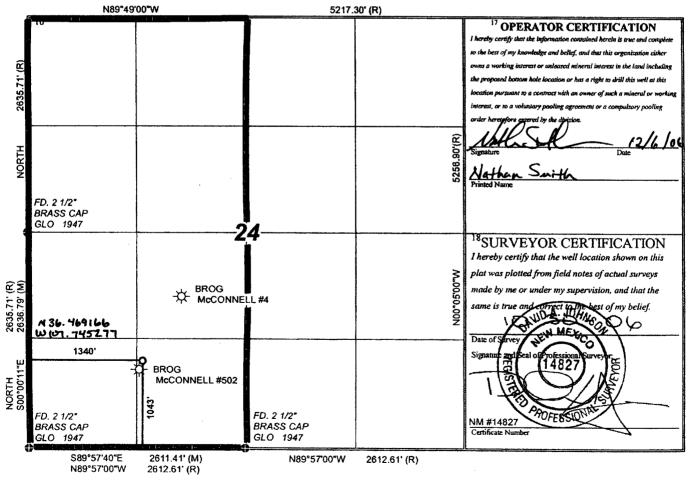
1220 S. St. Francis Dr., Santa Fe, NM 87505

070 FARMING AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT					
30 -045-3	34108 1599 Basin Dakota				
Property Code	⁵ Property Name	4 Well Number			
12012	TIBBAR FEDERAL	# 3F			
OGRID No.	* Operator Name	⁵ Elevation			
162928	ENERGEN RESOURCES CORPORATION	6432'			

¹⁰ Surface Location UL or lot no Section Lot Idn Range Feet from the East/West line County N 24 26N 9W 1043 SOUTH 1340 WEST SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Lot ldn Feet from the North/South line East/West line County Dedicated Acres Joint or Infill ⁴ Consolidation Code ⁵ Order No. w/2570

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.

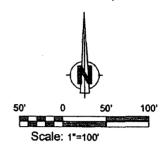


Description	Submit 3 Copies To Appropriate District	State of New Me		Form C-103
1301 W. Grand Ave., Artesia, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505 5. Indicate Type of Lease STATE FEB Distract No. Santa Fe, NM 87505 6. State Oil & Gas Lease No.	District 1	Energy, Minerals and Natur	al Resources	May 27, 2004
1301 W. Grand Ave., Artesia, NM 87410 1220 South St. Francis Dr. Santa Fe, NM 87505 5. Indicate Type of Lease STATE FEB Distract No. Santa Fe, NM 87505 6. State Oil & Gas Lease No.		OII CONCEDUATION	TOMESION	WEEL AT NO. 30-045- 34108
Santa Fe, NM 87505 STATE FEE District N Distr				
District State Oil & Gas Lease No.	1000 Rio Brazos Rd., Aztec, NM 87410			STATE FEE
SUNDRY NOTICES AND REPORTS ON WELLS GONOT USE THIS FORM FOR PROPOSAL TO DRILL OR TO DEEPEN OR RUIG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH 1. TOPA OF Well: Oil Well:				6. State Oil & Gas Lease No.
DO NOT USE THIS FORM FOR PROPOSAL TO DRILL OR TO DEEPEN OR PLUG BACK TO A DEFERENT RESERVOR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS) 1. Type of Welt		AND DEPODED ON WE		
1. Type of Well:	(DO NOT USE THIS FORM FOR PROPOSA DIFFERENT RESERVOIR. USE "APPLICAT	ALS TO DRILL OR TO DEEPEN C	OR PLUG BACK TO A	-
2. Name of Operator Energen Resources Corporation 3. Address of Operator 2198 Bloomfield Highway. Farmington, NM 87401 Well Location Unit Letter N : 1043 feet from the South line and 1340 feet from the West line Section 24 Township 28N Range 05N NMPM County San Juan Section 24 Township 28N Range 05N NMPM County San Juan 11. Elevation (Show whether DR, REB, RT, GR, etc.) 632' CL. Pit type Drill Depth to Groundwater >1000_ Distance from acarest fresh water well >1000_ Distance from acarest surface water >250' Pit Liner Tickness: 12 mil Below-Grade Tank Volume	•			8. Well Number
3. Address of Operator 2198 Bloosefield Richway, Parmington, NM 87401 4. Well Location Unit Letter N : 1043 feet from the South line and 1340 feet from the West line Section 24 Township 26N Range 05W NMPM County San Juan Section 24 Township 26N Range 05W NMPM County San Juan 11. Elevation (Show whether DR, RKB, RT, GR, etc.) Elt type Drill Depth to Croundwater >2100. Distance from searest fresh water well >1000. Distance from nearest surface water >250. Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bits; Construction Material 12. Check Appropriate Box to Indicate. Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON COMMENCE DRILLING OPNS. ALTERING CASING CASING CASING TEMPORARILY ABANDON COMPLETION THER: Build drilling pit Distance from persent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. Energen Resources plans to build a lined pit according to "OCD Pit and Balow-grade Tank Quidelines", as issued on November 1, 2004. Energen anticipates the submittal of a C-144 for closure of this pit in accordance with EIM and "OCD Pit and Balow-grade Tank Quidelines". PAFE Volume ASS INSPECTOR, DIS. 64 Full Charles Completed Complete Complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been by lib be constructed or closed according to NMCCD guiddines () a general permit of or an (datached) alternative OCD-approved plan TITLE Regulatory Analyse Local Park JAN 1 1 2007 PAFE Volume ASS INSPECTOR, DIS. 64 TITLE DATE INTERCACE, DIS. 65 JAN 1 1 2007		Other		
3. Address of Operator 2186 Blocomicald Highway, Farmington, NM 87401 10. Pool name or Wildcat Rasin Fakota 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 64321 GL Pit typ: Drill Depth to Groundwater >1001 Distance from searest fresh water well >1000 Distance from searest surface water >250 Dit It into Fribidates: 11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PluG AND ABANDON REMEDIAL WORK ALTERISC CASING FEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS. PluG AND ABANDONMENT 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. Energyen Resources plans to build a lined pit according to "OCD Pit and Below-grade Tank Quidelines", as issued on November 1, 2004. Energen anticipates the submittal of a C-144 for closure of this pit in accordance with BIM and "OCD Pit and Below-grade Tank Quidelines". PATE Repulatory Analyst DATE 12/06/06 E-mail address: vdonaghe@energyen.com TITLE Repulatory Analyst DATE 12/06/06	-			
4. Well Location Unit Letter N : 1043 feet from the South line and 1340 feet from the West line Section 24 Township 26N Range 09W NMFM County San Juan 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6432 GL Pit or Relow-grade Table Application GR or Closure 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6432 GL Pit type Drill Depth to Groundwater 2100 Distance from searest fresh water well 21000 Distance from nearest surface water 2500 Pit Liner Thickness: 12 mil Below-Grade Task: Volume bibls; Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPNS. ALTERING CASING COMMENCE DRILLING OPNS. PLUG AND ABANDON CEMENT JOB COMMENCE DRILLING OPNS. PLUG AND ABANDON CEMENT JOB	n			
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Section 24 Township 26N Range 05W NMPM County San Juan 11. Elevation (Show whether DR, RKB, RT, GR, etc.)				
Pit of Below-grade Tank Application Described De	Unit Letter N : 10	feet from the Sou	th line and	1340 feet from the West line
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Pit type Drill Depth to Groundwater >1001 Distance from nearest fresh water well >10001 Distance from nearest surface water >2501 Pit Liner Thickness: 12 mil Below-Grade Tank: Volume				
PIT Liner Thickness: 12 mil Below-Grade Tank: Volumebbls; Construction Material	Pit or Below-grade Tank Application X	r Closure 🗆		
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APPROVED BY	grade tank has been/will be constructed or close SIGNATURE WELL STORMS	ed according to NMOCD guidelines TITI E-rr	, a general permit [Regulator	or an (attached) alternative OCD-approved plan y Analyst DATE 12/06/06 vdonaghe@energen.com
APPROVED BY	For State Use Only		CEPTITY ON A GAS IN	SPECTOR, DIST. @
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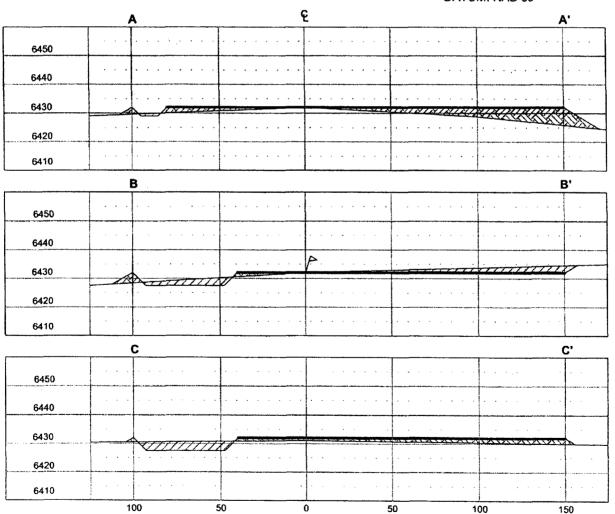
DRAIN TO RESERVE BLO RESERVE PIT LAYDOWN N88°01'48"E C-0.0 125 C-0.0 F+0.9 (3) TROHOM C-3.2 B.R.O.G. ++ McCONNELL #502 NCHOR 125 C' F+2.0 F+6.5 C-2.5 ∠ ANCHOR

ENERGEN RESOURCES CORPORATION

TIBBAR FEDERAL #3F 1043' FSL & 1340' FWL LOCATED IN THE SE/4 SW/4 OF SECTION 24, T26N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6432', NAVD 88



LATITUDE: 36°28'09"N LONGITUDE: 107°44'43"W DATUM: NAD 83



HORIZ. SCALE: 1"=50' VERT. SCALE: 1"=30' Red Skies Surveying & Mapping, Inc.
A Native American Owned Company

101 Fauver Lane, Bloomfield, New Mexico 87413 Phone/Fax: (505) 632-8906 Cell No: (505) 793-5325

Operations Plan

December 4, 2006

Tibbar Federal #3F

General Information

Location

1043' fsl, 1340' fwl sesw S24, T26N, R09W San Juan County, New Mexico

Elevations
Total Depth
Formation Objective

6432' GL 6789' (MD) Basin Dakota

Formation Tops

Nacimiento	Surface	Menefee Fm	3704'
Ojo Alamo Ss	1269'	Point Lookout Ss	4469'
Kirtland Sh	1359'	Mancos Shale	4734'
Fruitland Fm	1794'	Graneros Shale	6429'
Top Coal	1854'	Dakota "Twowells" Ss	6454'
Bottom Coal	2059'	Dakota "Paguate" Ss	6554'
Pictured Cliffs Ss	2059'	Dakota "Cubero" Ss	6624'
Lewis Shale	2284'	Dakota "Oak Canyon" Ss	6724'
Cliffhouse Ss	3654'	Dakota "Encinal Cyn" Ss	6739'
		Total Depth	6789'

Drilling

The 12 1/4" wellbore will be drilled with a fresh water mud system.

The 6 ¼" wellbore will be drilled with a low solids non-dispersed fresh water mud system. Weighting materials will be drill cuttings. Mud density is expected to range from 8.3 ppg to 8.9 ppg. Blowout Control Specifications:

A 2000 psi minimum double ram or annulus BOP stack (figure 1) will be used following nipple up of casing head. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations.

Logging Program:

Open hole logs: From Surface to TD - Temp / HRI / CNT, LDT / GR

Surveys: Surface and/or every 500' to TD

Tubulars

Casing, Tubing, & Casing Equipment:

String Surface Production	interval	Wellbore	Casing	Csg Wt	Grade
	0'-200'	12 ¼"	9 5/8"	32.3 ppf	H-40 ST&C
	0'-6789'	6 ¼"	4 ½"	11.6 ppf	J-55 LT&C
Tubing	0'-6690'		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on bottom. Casing centralization with standard bow spring centralizers to achieve optimal standoff.

Production Casing: Depending on wellbore conditions, a cement nose guide shoe on bottom with self fill insert float collar on top of shoe joint and casing centralization with standard bow spring centralizers to optimize standoff. If multistage cementing is required, DV tool(s) will be placed based on formation characteristics.

Cementing

Surface Casing: 125 sks Type V cement with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.4 ppg, 1.23 ft³/sk 154 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

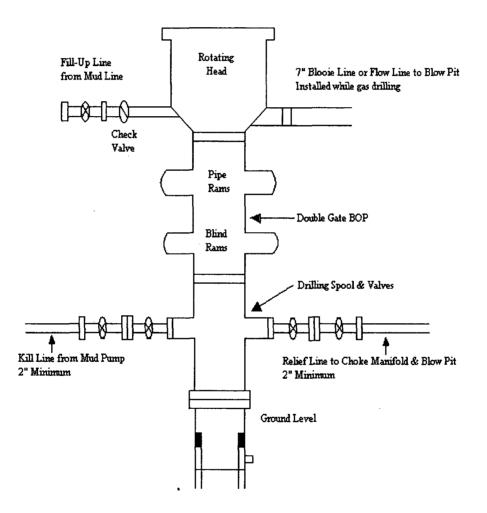
Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist a lead of 550 sks 65/35 Type V with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ¼ #/sk Flocele (12.3 ppg, 1.93 ft³/sk) followed by a tail of 250 sks 50/50 Type V with 2.0 % Bentonite, 0.80 % Halad-9, 0.10 % CFR-3, 5.0 #/sk Gilsonite, ¼ #/sk Flocele (13.5 ppg, 1.30 ft³/sk). (1386.5 ft³ of slurry, 100 % excess to circulate to surface).

Other Information

- 1) This well will be cased and the Basin Dakota fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. The production string may need to be cemented in multiple stages with a slurry design deviated from that listed above.
- 3) No abnormal temperatures or pressures are anticipated. Anticipated fracture gradient is 0.70 psi/ft.
- 4) This gas is dedicated.

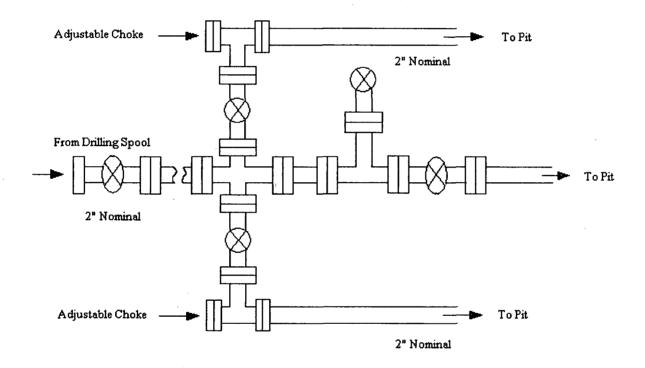
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD