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12-1/4" 7-7/8" Energen Resources Co described location in a	8-5/8"		T SETTING DE	
7-7/8" Energen Resources Codescribed location in a) <u>//</u> #		
Energen Resources Co described location in a			+/- 250'	~201 cu.ft. Class "B" w/ 1/4#CF &
described location in a	3-1/2	15.5#	+/- 3059'	~825 cf Lightwt & ~239 cu.ft.Class
This location has been Copies of their report	occordance with the eau of Land Manage archaeologically su have been submitted ng as an application	attached drilling ement urveyed by DCA (I directly to your 1 to obtain road a	and surface use pla Divison of Conserva office. and pipeline right-of	Fruitland Coal formation at the above ns. The surface is under the ation Archaeology - Salmon Ruins) ways. This well will require
If proposal is to drill or deepen discrete. SIGNED (This space for Federal or State office PERMIT NO.	the last on such that the applicant holds be	APPROVAL DAT	Sured and true vertical depths. Grant John C. Thompso	
APPROVED BY	HII (anleit	(A) TT	THE ATM	DATE 3-15-85

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District I 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

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe. NM 875050T 111

Form C-102

Revised June 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

1220 S. St. Francis Dr., Santa Fe, NM 87505					COULTO I I	1 1:1 2	- 1		ENDED REPORT	
•		W	ELL LO	CATIO1	N AND ACR	EAGE DEDIC	ATION PLA	Τ		
30-045-32625 71629				² Pool Code 629	Code 070 FARMING PoolName; Basin Fruitland Coal					
Property (Gode				5 Property				- 67	Well Number
Hart Canyon					on #33	n #33				
OGRID No.					⁸ Operator	Name			⁹ Elevation	
16292 9				Ene	Energen Resources Corporation				6172'	
					10 Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	East/West line County	
D	33	31N	10W		1000	North	800	W	West San Juan	
L	<u> </u>		11 Bo	ottom Ho	le Location l	I Different Fro	m Surface			<u>l</u>
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County
¹² Dedicated Acre	7	r Infill 14 C	onsolidation	Code 15 O	rder No.					[

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 S 89-20-33 E 2,533.04" (Measured) S 89-21-51 E 2,533.52" (Measured) OPERATOR CERTIFICATION 3 1/4" Brass Cap 3 1/4" Brass Cap I hereby certify that the information contained herein 3 1/4" Brass Cap BLM 1968 (Measured) **BLM 1968 BLM 1968** is true and complete to the best of my knowledge and belief. 8001 20 John C. Thompson 00-36-02 W Engineer/Agent 5,240.30' (Measured) 8/25/04 Date 3 1/4" Brass Cap BLM 1968 18SURVEYOR CERTIFICATION I hereby certify that the well location shown on this S 02-36-37 W plat was plotted from field notes of actual surveys made by me or under my supervision, and that the st of my belief. 3 1/4" Brass Cap ESSION **BLM 1967**

Submit 3 Copies To Appropriate District Office	State of New Mex		Form C-103					
District I	Energy, Minerals and Natura	al Resources	May 27, 2004 WELL API NO.					
1625 N. French Dr., Hobbs, NM 88240 District II		ì	WEEL ATTIO					
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION I		5. Indicate Type of Lease					
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Franc		STATE FEE					
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 875	503	6. State Oil & Gas Lease No.					
87505								
	TICES AND REPORTS ON WELLS DSALS TO DRILL OR TO DEEPEN OR PLUC	G BACK TO A	7. Lease Name or Unit Agreement Name					
DIFFERENT RESERVOIR. USE "APPL		Hart Canyon 33						
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well X Other		8. Well Number					
	- Cas Well A Olliel		No. 1S					
2. Name of Operator Energen Resources Corpora	etion		9. OGRID Number 162928					
3. Address of Operator	RUU		10. Pool name or Wildcat					
	rion, 7415 E. Main, Farmington, NM	87402	Basin Fruitland Coal					
4. Well Location								
Unit Letter D	:1000feet from theNorth		from theWestline					
Section 33			MPM San Juan County					
	11. Elevation (Show whether DR, 6172" GR	RKB, RT, GR, etc.)						
Pit or Below-grade Tank Application X								
1	vater <u>>100°</u> Distance from nearest fresh wat							
	mil Below-Grade Tank: Volume		ruction Material					
12. Check	Appropriate Box to Indicate Na	ature of Notice, I	Report or Other Data					
NOTICE OF I	NTENTION TO:	SUBS	SEQUENT REPORT OF:					
PERFORM REMEDIAL WORK		REMEDIAL WORK						
TEMPORARILY ABANDON		COMMENCE DRIL						
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB					
OTHER:	x	OTHER:						
			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.								
Drilling Pit Permit Request	t '							
- · · · · · · · · · · · · · · · · · · ·	relative to wellhead. Note: lo		· · · · · · · · · · · · · · · · · · ·					
_	nergen Resources pit closure	plan and NMO	CD Guidelines in accordance with					
Rule 50.								
	·							
I hereby certify that the information	on above is true and complete to the h	est of my knowledge	e and belief. I further certify that any pit or below-					
			or an (attached) alternative OCD-approved plan .					
		_						
SIGNATURE (L)	John C, Thompson TITLE Eng	nneer/Agent	DATE9 <u>/19/04</u>					
Type or print name	E-mail ac	ddress: iohn@wals	heng.net Telephone No. 327-4892					
For State Use Only		, •						
A DDD OX /FD DX/		uty oil & gas ins						
APPROVED BY: (if any)	TITLE_		DATE					

ENERGEN RESOURCES CORPORATION

HART CANYON 33-1S 1000' FNL & 800 FWL

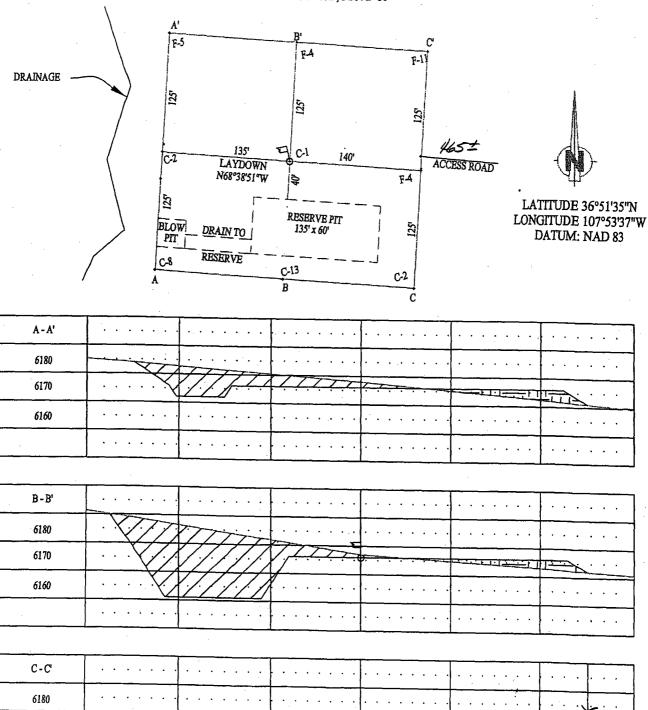
Plat #2

6170

6160

LOCATED IN THE NW/4 NW/4 OF SECTION 33, T31N, R10W, N.M.P.M, SAN JUAN COUNTY, NEW MEXICO

ELEVATION: 6172', NAVD 88



Energen Resources Corporation Operations Plan Hart Canyon 33 No. 15

(Note: The following may be adjusted on site based upon actual conditions)

1. Location

Location

1000' fnl & 800' fwl (nw nw)

Sec 33, T31N, R10W

San Juan County, New Mexico

Elevations

6172' GL

Total Depth

3059' MD RKB

Well Objective

Basin Fruitland Formation

2. Formation Tops

A.	Formation	Depth-KB
	Nacimiento Fm.	Surface
	Ojo Alamo Ss.	1434'
	Kirtland Sh.	1559'
	Fruitland Fm.	2469'
	Top Coal	2644'
	Base Coal	2854'
	Pictured Cliffs Ss.	2859'
	Total Depth	3059'

Estimated depths of anticipated water, oil, gas and other mineral bearing formations which are expected to be encountered:

Water and gas: 1559' - 2859'

B. Logging program: Induction/GR and Density logs at TD

3. Hazards

Overpressuring/H2S

No over pressured zones are expected in this well. No known H2S zones will be penetrated in this well. Maximum expected BHP: 600 psig.

Lost Circulation

Lost circulation is not expected to be a problem. However, in the event lost circulation zones are encountered or hole stability problems develop, lost circulation material (LCM) will be on location to be used with any mud systems that may be needed to address the lost circulation zones. Also, lost circulation material will be used in the production cement

in attempt to minimize any lost circulation zones/problems that may be encountered during cementing of the production string.

4. Drilling

A. Contractor: L&B Speed Drill

B. Mud Program:

The surface hole will be drilled with a fresh water mud system.

The production hole will be drilled with a fresh water/polymer mud system. The weighting material will be drill solids or if conditions dictate, barite. The maximum weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications

Double ram type or annular type 2000 psi working pressure BOP with a rotating head will be utilized. See the attached Exhibits #1 & #1 for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

4. Casing & Materials

A. Casing

	<u>String</u>	<u>Interval</u>	<u>Hole Size</u>	Csq OD	Wt lb/ft	<u>Grade</u>
	Surface	0'-240'	12-1/4"	8-5/8"	24.0	J-55
\triangleright	Production	0'-3059'	7-7/8"	5-1/2"	15.5	J-55

B. Float equipment

I) Surface Casing: None

II) Production Casing: 5-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every fifth joint from the top of the well.

5. Cementing

Surface Casing: 8-5/8" – Use 170 sx (201 cu.ft.) of Class "B" with 1/4#/sk celloflake and 2% CaCl2. (yield: 1.18 cu.ft./sk; slurry weight: 15.6 ppg). Use 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 5-1/2" – Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 20 bbls of fresh water. Lead with 400 sx (824 cu.ft.) of Class "B" with 2% SMS (sodium metasilicate) and 1/4#/sk celloflake. (yield: 2.06 cu.ft./sk; slurry weight: 12.5 ppg). Tail with 203 sx (240 cu.ft.) of Class "B" with 1/4#/sk

cellolake (yield: 1.18 cu.ft./sk; slurry weight: 15.6 ppg). Total cement volume is 1060 cu.ft. (use 100% excess to circulate cement to surface).

6. Completion

Well will be selectively perforated and hydraulically fractured to test for production. If productive the well will be produced thru 2-3/8" tubing.

7. Surface Facilities

- 1. If well is productive, set separator, production tank (or water lines) and any related production equipment.
- 2. Set meter and tie well into pipeline.
- 3. Turn wellover to production department.
- 4. Rehabilitate as per the managing surface agency request.

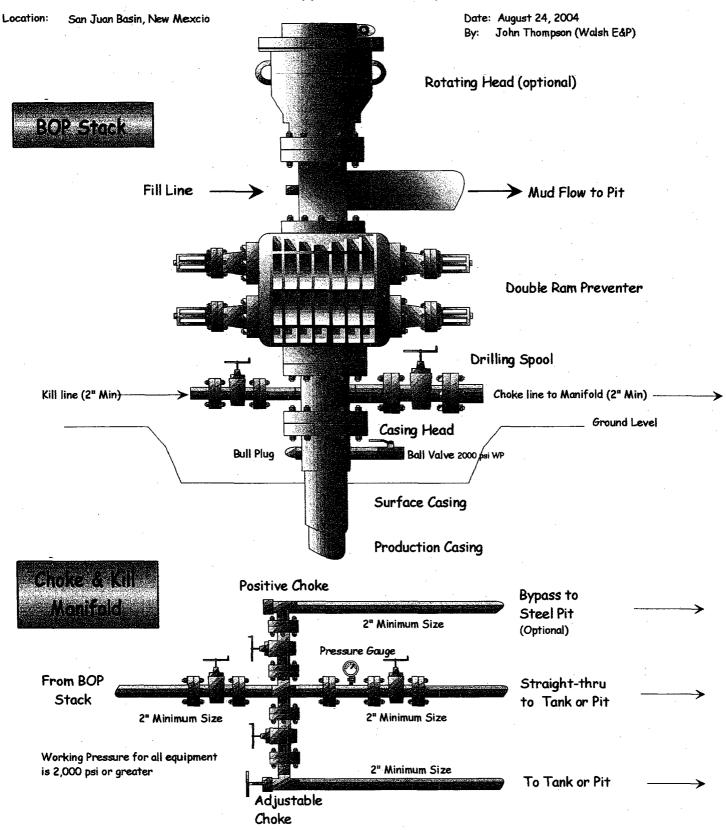
John C. Thompson Engineer

Energen Resources Corp.

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Exhibit #1 Typical BOP setup



Energen Resources Corp.

Well Control Equipment Schematic for 1M Service

Attachment to APD Form 3160-3

HART CANYON 33 NO. 1S

Location: 1000' fnl & 800' fwl

Sec 33, T31N, R10W

San Juan County, New Mexico

Date: August, 2004

Drawn By: John C. Thompson

