Form 3160-5 (August 2007)

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

RECEIVED

FORM APPROVED OMB NO 1004-0137 Expires July 31, 2010

JUN 29 201 5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an Farmington Field 604f Indian, Allottec or Tribe Name abandoned well. Use Form 3160-3 (APD) for such proposalsureau of Land Man. gemei

4 NMNM 30351

SUBMIT IN TRIPLICA	TE - Other instruction	ns on p	age 2		7. If Unit or C	A/Agreer	nent, Name and/or No
1 Type of Well Oil Well X Gas Well Other 2 Name of or Energen Resources Corporation 3a. Address 4. Location of Well (Footage, Sec., T., R., M., or Survey) SHL: 1045 FNL, 480 FEL; Sec.15-T3 BHL: 300 FNL, 1200 FEL; Sec.14-T3	74 1 Description) 2N-R05W	3b. Pho	ne No (include ared 6800	a cod	<i>-</i> -	Jnit Io. Pool, or I itland	
12. CHECK APPROPRIAT	E BOX(ES) TO IND	ICATE	NATURE OF N	OTIC	CE, REPORT, OR OTHI	ER DAT	A
TYPE OF SUBMISSION			TYP	E OF	ACTION		
X Notice of Intent	Acidize		Deepen		Production (Start/Resume)	w	ater Shut-Off
Subsequent Report	Alter Casing Casing Repair		Fracture Treat New Construction		Reclamation Recomplete	\equiv	ll Integrity
Final Abandonment Notice	Convert to Injection	. 🗌	Plug and Abandon Plug Back		Temporarily Abandon Water Disposal		
Adhe	formed or provide the Bo of the operation results in Notices shall be filed only ection.) The following characteristics of the following characteristics of the casing program of the casing program of the section (we are regen of the probit the surface hole ty precautions.	as for a large state of the second No. a multiply after a large state of the second se	on file with BLM/B le completion or recil requirements, include the Carracian of the Carrac	cemement complete com	Required subsequent report etion in a new interval, a Fig reclamation, have been continued in the surface. Init #119 well: RCU OIL Ment to surface. Mice to 250 MD. Molistion 20ne @ 320 Molistion 3000# BOP stace	bs shall be orm 3160 ompleted, and the completed, and the completed, and the completed, and the completed and the comple	a single n the nce of this e siled within 30 days of the siled once and the operator has 12'11 DIU. 3 nd severe ting a single n the nce of this E LESSEE AND NY OTHER DR OPERATIONS
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) ———Stephen-Byers-	_	 Titl	o Dudilida				
Signature Atender Briens		Dai			ig meer		
THIS	SPACE FOR FEDE				USE		
Approved by					_ D	ate - /.	.1
Conditions of approval, if any, are attached. Approval of this not the applicant holds legal or equitable title to those rights in the substitute the applicant to conduct operations thereon	ce does not warrant or certify	y that	Petroleus Office	<u> </u>	Engineer	+ []	1 2011

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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

6/30/2011



OPERATIONS PLAN

WELL NAME	Carracas Unit #119H
	Horizontal OPE FTC
DEPT	Drilling and Completions

Surface Location	1045 FNL 480 FEL
S-T-R	(A) Sec.15, T32N, R05W
Bottom Hole Location	300 FNL 1200 FEL
S-T-R	(A) Sec.14, T32N, R05W
County, State	Rio Arriba, New Mexico
Elevations	7533' GL
Total Depth	8536' +/- (MD); 4046' (TVD)
Formation Objective	Basin Fruitland Coal

FORMATION TOPS

San Jose	Surface	
Nacimiento	2152' (TVD)	_
Ojo Alamo Ss	3402' (TVD)	
Kirtland Sh	3575' (TVD)	
Fruitland Fm	3696' (TVD) 3745'MD	
Top Target Coal	4036' (TVD) 4388'MD	
Base Target Coal	4060' (TVD)	
Total Depth	4046' (TVD), 8536' (MD)	

DRILLING

Conductor: 17-1/2" wellbore will be drilled with a freshwater mud system (spud mud) **Surface**: 12-1/4" wellbore will be drilled with a fresh water mud system (spud mud).

Intermediate: 8-3/4" wellbore will be drilled with a LSND mud system. Weighting materials will be

drill cuttings and if needed barite. Mud density is expected to range from 8.8 ppg to 9.3 ppg.

Production: 6-1/4" wellbore will be drilled with QMax Solution's lateral fluid, CBmax. Mud density

is expected to range from 9.0 ppg to 9.4 ppg. Anticipated BHP can be as high as 1500 psi.

Projected KOP is 2400' TVD with 7.4°/100' doglegs.

Blowout Control Specifications:

A 3000 psi minimum double ram or annulus BOP stack 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. **Pressure test BOP to 250 psi for 15 min and 2000 psi for 15 min.**

Logging & Coring Program:

DST: None

Coring: None

Cased hole logs: None Open hole logs: None

Mudlogs: From surface to TD (sample frequency every 30'. ROP dependent) Surveys: Surface to KOP every 500' and a minimum of every 200' for directional.

6/30/2011 R E S O U R C E S

CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Conductor	0	150	17-1/2"	13-3/8"	48 lb/ft	H-40 ST&C
Surface	0	2000	12-1/4"	9-5/8"	32.3 lb/ft	H-40 ST&C
Intermediate TVD	0 0	4513 4046	8-3/4"	7"	23 lb/ft	J-55 LT&C
Prod. Liner TVD	4413 4044	8536 4046	6-1/4"	4-1/2"	11.6 lb/ft	J-55 LT&C
Tubing	0	4300	none	2-3/8"	4.7 lb/ft	J-55

Conductor Casing: Texas Pattern Guide Shoe on bottom of first joint and an insert float valve on top of first joint. Casing centralization with a minimum of 3 standard bow spring centralizers to achieve optimal standoff.

Surface Casing: Texas Pattern Guide Shoe on bottom of first joint and an insert float valve on top of first joint. Casing centralization with a minimum of 3 standard bow spring centralizers to achieve optimal standoff.

Intermediate Casing: Self fill float shoe with self fill float collar on bottom and top of first joint. Casing centralization with double bow spring and centralizers to optimize standoff.

Production Liner: Bull nose guide shoe on bottom of first joint, H-Latch liner drop off tool on top of last joint.

WELLHEAD

11" 3000 x 9 5/8" weld/slip on casing head. 9 5/8" x 7"x 2 3/8" 3000 psi Flanged Wellhead.

CEMENTING

Conductor Casing: 177 sks Type V with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 209 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test conductor casing to 750 psi for 30 min.

Surface Casing: Cement may consist of 393 sks PRB II with 5 #/sk Gilsonite and ¼ #/sk Flocele (12.3 ppg, 2.24 ft³/sk) and a tail of 150 sks 50/50 Poz with 0.3% Halad-9, 5 #/sk Gilsonite, 1/8 #/sk Pol-E-Flake and 0.1% CFR-3 (13.5 ppg, 1.31 ft³/sk). (1075 ft³ of slurry, 100% excess lead to circulate to surface). WOC 12 hours. Pressure test surface casing to 1500 psi for 30 min.

Intermediate Casing: Depending on wellbore conditions, cement may consist of 488 sks PRB II with 5 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 2.24 ft³/sk) and a tail of 100 sks PRB II with ½ #/sk-Flocele-and-5-#/sk-Gilsonite-(13.5-ppg,-1-81-ft³/sk). (1273-ft³-of-slurry,-100% excess-lead-to-circulate to surface). WOC 12 hours. Test casing to 1500 psi for 30 min.



Production Liner: NO CEMENT, Open Hole Completion

Set slips with full string weight

If cement does not circulate, notify BLM/OCD & run temperature survey in 8 hrs. to determine TOC.

OTHER INFORMATION

1) This well will be an open hole completion lined with an uncemented pre-drilled liner.

control. The intermediate string may need to be cemented in multiple stages with a slurry design deviated from that listed above.

- 3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions.
- 4) This gas is dedicated.