Form 3160₋3 (September 2001)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0136 Expires January 31, 2004

BUREAU OF LAND MANAGE	EMENT				
APPLICATION FOR PERMIT TO DRII	LL OR REENTER	5. Lease Serial No. NMSF 078050			
a. Type of Work X DRILL REEN	TER 2008 150 13 M 11: 46	6. If Indian, Allotee or Tribe Name			
o. Type of Well Oil Well Gas Well Other	Single Zone Multiple Zone	7. Unit or CA Agreement Name and No.			
Name of Operator	- (7 O : OH : 10 - 7	8. Lease Name and Well No.			
Energen Resources Corporation		Turner Hughes 8S			
a. Address	3b. Phone No. (include area code)	9. API Well No.			
2198 Bloomfield Highway Farmington, New Mexico		3004532311			
Location of Well (Report location clearly and in accordance with any At surface 910' FNL, 2225' FWL	40	Refield and Pool, or Exploratory Basin Fruitland Coal			
JIO ME, LEES ME	SEP 2004	1158cc., T., R., M., or Blk. and Survey or A			
At proposed prod. zone	LO TIME THE PARTY OF THE PARTY	C.Sec.04,T27N,R09W NMPM			
1. Distance in miles and direction from nearest town or post office*	on one by	12. County or Parish 13. State			
10 miles SE of Bla	anco, NM	San Juan NM			
5. Distance from proposed*	16. No. of Acres in lease 17.5	Spacing Unit dedicated to this well			
location to nearest	10.10. 01 Acros 10.	Notice of the decided to this work			
property or lease line, ft. 910' (Also to nearest drg. unit line, if any)	302.72 62.87.12	306.98 W 1/2			
3. Distance from proposed location*	19. Proposed Depth 20.3	BLM/BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.					
320'	3305'				
1. Elevations (Show whether DF, KDB, RT, GL, etc.	22. Approximate date work will start*	23. Estimated duration			
7108'	Aug 04	5 days			
	24. Attachments				
he following, completed in accordance with the requirements of Onshore	Oil and Gas Order No. 1, shall be attached to the	nis form:			
Well-slat and God has a majestaned expression	A Dand to assign the anomations	unless covered by an existing bond on file (see			
Well plat certified by a registered surveyor. A Drilling Plan	Item 20 above).	illess covered by an existing bond on me (see			
. A Surface Use Plan (if the location is on National Forest System Lands	•				
SUPO shall be filed with the appropriate Forest Service Office).		ation and/or plans as may be required by the			
	authorized officer.				
5. Signuature	Name (Printed/Typed)	Date			
12 Jour Thomas	Doug Thomas	04/9/04			
Title					
Drilling Superintendent					
Approved by (Signautre)	Name (Printed/Typed)	Date			
B/Markeelva)	, , , , , , , , , , , , , , , , , , , ,	9-9-04			
Title .	Office	· · · · · · · · · · · · · · · · · · ·			
AFU	PFO				
application approval does not warrant or certify that the applicant holds	legal or equitable title to those rights in the s	ubject lease which would entitle the applican			
conduct operations thereon. Conditions of approval, if any, are attached.					
Stle 19 II C C Section 1001 and Title 42 II C C Section 1212 and 1 is	oring for any person beautimate and milletter	o make to any denominant or account of the Lie			
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a tates any false, fictitious or fraudulent statements or representations as to		o make to any department or agency of the Or			
miles and among the interest of the angular state that the or representations as to	any mander within the justicition.				
(Instructions on Payarea)					

*(Instructions on Reverse)

HOLD CIEN FOR NSL

NMOCD

District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Orawer DO, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

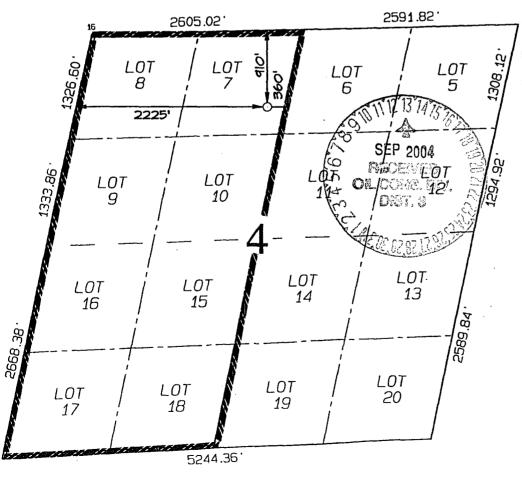
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

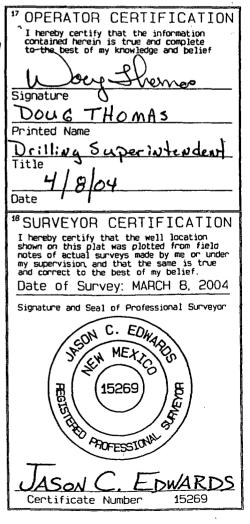
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

''	API Numbe	mber Pool Cod			te l	³Pool Name					
30045	5-32	2311		71629)	BASIN FRUITLAND COAL					
*Property	Code				*Property	/ Name			* We	ell Numb	er
214	24				TURNER	HUGHES				88	
'OGRID I	No.		*Operator Name					*Elevation			
16292	8	ENERGEN RESOURCES CORPORATION						7108			
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	Cou	inty
С	4	27N	9₩		910	NORTH	2225	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/Wes	st line	Cox	nty .
					:					İ	
12 Dedicated Acres		98 Acre	s - (W	1/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	⁵⁵ Order 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





ENERGEN RESOURCES CORPORATION TURNER HUGHES #8S 910' FNL & 2225' FWL, SECTION 4, T27N, R9W, NMPM SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 7108' F7 (5) 6 F7 PIT RESERVE PIT DRAIN TO RESERVE PIT ONGITUDE: 107°47' LAYDOWN 562°E ◑ 140 135 ACCESS 50' (0-6%) **WORKING SIDE** ② C4 B' A-A' 7118' 7108' 7098' B-B' 7118 7108' 7098' C-C 7118' 7108' 7098' CHECKED BY: JCE FILENAME: 2794CT2 NCE SURVEYS, INC. DRAWN BY: SLE SHEET 2 OF 3

OPERATIONS PLAN

WELL NAME: Turner Hughes # 8S

LOCATION: 910' FSL, 2225' FWL, Section 4, T27N, R9W, San Juan County, NM FIELD: BASIN FRUITLAND COAL ELEVATION: 7108' GL

FORMATION TOPS:

Surface
1115
2250
2330
2935

Total Depth 3305

LOGGING PROGRAM:

Open Hole Logs:

Surface to intermediate: None Top of Fruitland to total depth:

Mud Logs:

None

Coring:

None

Natural Gauges:

Every 500' from intermediate TD to total depth

<u>MUD PROGRAM</u>: Fresh water low solids mud from surface to intermediate TD (9.0 PPG). Air/mist from Intermediate casing point to total depth.

CASING PROGRAM:

HOLE SIZE	<u>DEPTH</u>	CSG SIZE	<u>WT.</u>	<u>GRADE</u>
12 1/4"	200'	9 5/8"	32.3#	H-40 ST&C
7 7/8"	3305'	5 1/2"	15.5#	J-55 ST&C

TUBING PROGRAM:

2600' 2-3/8" 4.7# J-55

WELLHEAD: 9 5/8"x 2000# x 5 1/2" Larkin Fig. 92casing head. 5 1/2" 2000 x 2" tubing head.

BOP SPECIFICATIONS:

An 11" 2000 psi minimum double gate BOP stack (Figure 1) will be used following nipple up of casing head. During air drilling operations, a Shaffer Type 50 or equivalent rotating head will be installed on top of the stack. A 2" nominal, 2000 psi minimum choke manifold will be used. An upper Kelly Cock valve with handle available and drill string valve to fit each drill string will be available on the rig floor during drilling operations.

CEMENTING:

9 5/8" surface casing - Cement with 110 sks Class B Cement with ¼# flocele/sk and 2% calcium chloride (130 cu. ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing to 600# for 30 minutes.

Texas Pattern Guide Shoe on bottom, with 3 centralizers on first 3 joints.

5 1/2" production casing:

Cement with 455 sks 65/35 Class B Poz with 6% gel, 2% calcium chloride, 10% gilsonite, and ¼# flocele/sk. Tail with 100 sks Class B w/2% calcium chloride, 10% gilsonite and ¼# flocele/sk. (1002 cu. ft. of slurry, 75% excess to circulate to surface). WOC 12 hrs prior to completion. If cement does not circulate, run temperature survey in 8 hrs. to determine TOC.

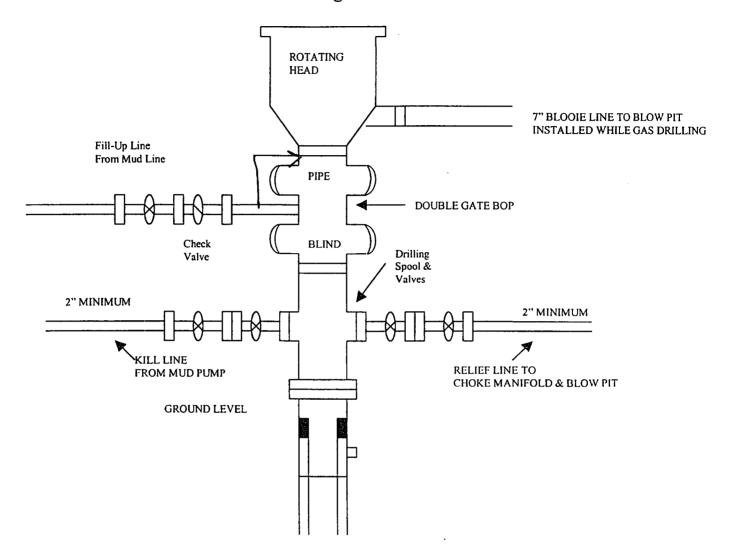
Cement nose guide shoe on bottom with a self-fill insert float valve on top of shoe joint. 10 bow spring centralizers spaced every 2nd joint off bottom. Two turbolating centralizers at the base of the Ojo Alamo.

OTHER INFORMATION:

- 1) No abnormal temperatures or pressures are anticipated.
- 2) If lost circulation is encountered, sufficient LCM will be added to mud system to maintain well control.
- 3) This gas is dedicated.
- 4) Anticipated pore pressure for the Furitland is 700 psi.

ENERGEN RESOURCES CORPORATION

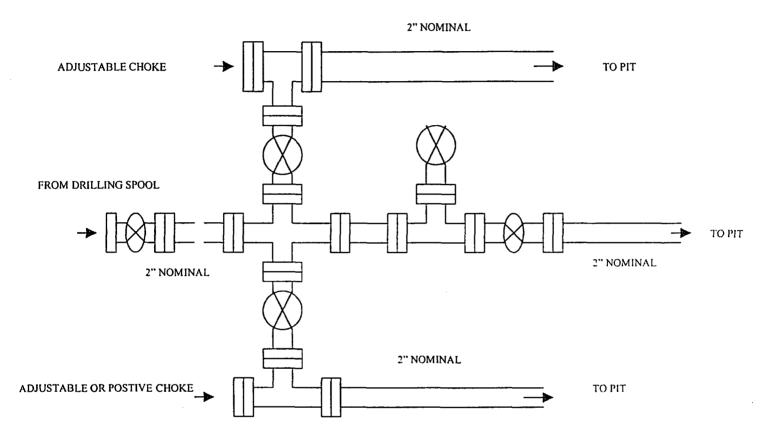
Mesa Verde / Dakota Well BOP Configuration



Minimum BOP installation for a Mesaverde well from Surface to Total Depth. 11' Bore, 2000 psi minimum working pressure double Gate BOP to be equipped with blind and pipe rams. A Schaffer Type 50 or equivalent rotating head to be installed on the top of The BOP. All equipment is 2000 psi working pressure or greater.

ENERGEN RESOURCES CORPORATION

Choke Manifold Configuration 2M psi System



Minimum choke manifold installation from surface to Total Depth. 2" minimum, 2000 psi working pressure equipment with two chokes.