Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED Budget Bureau No. 1004-0135

Expires: March 31, 1993

SURRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Lise "APPLICATION FOR PERMIT"—In such, proposals 7. If Van or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Days of Well	BUREAU OF LAND MANAGEMENT		5. Lease Designation and Serial No.
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.			SF-078997
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14. I hereby certify that the foregoin; is true and correct Signed	to the existing Mesaverde formation removing the RBP and flowing both i	Nov 1 4 1997	che Lewis Shale before report when all plugs are
ACCI 1 O A GAI	(This space for Federal or State office use) Approved by		ACCEPTED FOR RECORD
			MAA A (1991

Title 18 U.S.C. Section 1001, 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. * See Instruction on Reverse Side

NMOCD

San Juan 30-5 #61 SF-078997; Unit A, 1130' FNL & 960' FEL, Sec. 15, T30N, R5W; Rio Arriba Co., NM

Details of procedure used to perf in the Lewis Shale interval of the existing Mesaverde formation and stimulate.

10/23/97

MIRU Big A #18. Kill well. ND WH & NU BOPs. PT-OK. COOH 2-3/8" tubing. GIH w/bit & scraper. COOH. GIH & set CIBP @ 5261'. Run GR/CCL/CBL from 5561' - 3522'. Load hole & PT casing to 3000 psi. OK. Perf'd Lower Lewis Shale @ 1 spf 120° phasing.

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5137' - 5142' (5'); 5076' - 5081' (5'); 4945' - 4950' (5'); 4875' - 4880' (5'); 4778' - 4783' (5'); 4730' - 4735' (5'); 4668' - 4673' (5'); 4602' - 4607' (5'); 4592' - 4597' (5'); 4546' - 4551' (5'); 4532' - 4537' (5'); Total 55 holes
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RU to acidize. Pumped 1500 gal of HCL & 82 ballsealers. RIH & retrieved 42 of the ballsealers RU to frac. Pumped 49,000 gal 30# Borate X-link gel / N_2 foam - 2% KCl 25 micron filter base fluid w/690,000 scf N_2 and 140,800 # 20/40 Brady sand. Avg. rate 50 bpm and avg treating pressure 2190 psi. ISIP 840 psi.

RIH w/4- /2" RBP & set @ 4424'. Dumped 5' of sand on top. PT - OK. RU to perf Upper Lewis Shale @ 1 spf.

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4223' - 4228' (5'); 4246' - 4251' (5'); 4272' - 4277' (5') 4310' - 4315' (5'); 44(13' - 4408' (5'); then 4260' - 4265' @ 3 spf Total 40 holes.
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RU to acicize - Pumped 1500 gal 15% HCL & 60 ballsealers. RIH & retrieved 59 ballsealers. RU to frac. RIH w/4 ½" packer and set @ 3556'. Pumped 43,680 gal 30# X-link gel / N_2 foam w/2% KCl 25 Micron filtered based fluid w/0.6mmscf N_2 w/140,500 # 20/40 Brady sand. Avg. rate - 42 bpm and avg. treating pressure - 5450 psi. ISIP - 1000 psi. Flowed back immediately on ¼" choke for approx. 47 hrs.

ND frac valve assembly. Released packer & COOH. GIH w/2-3/8" production tubing. Tagged fill. Cleaned out with air & water sweeps. Landed tubing @ 4382' with "F" nipple @ 4350'. ND BOPs & NU WH. PT - 200 psi for 10 min and 2000 psi - 30 min. OK. RD & released rig. Flow test Upper Lewis Shale. Turned well over to Production Department.

Note: Plans are to flow the Upper Lewis Shale for approx. 2 weeks. Return & POOH with tubing and pull RBP seperating the Lower & Upper Lewis Shale zones and then RIH witubing and packer (between lower and upper L/S zones) and flow test both zones for approx. 3 months. Return and drilling out the CIBP separting the Lewis Shale from the existing Mesaverde perfs. Then producing all zones in the Mesaverde formation.