Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

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FORM APPROVED Budget Bureau No. 1004-0135

Expires: March 31, 1993

SUBDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or nearby to a different reservoir. Use "APPLICATION FOR PERMIT for such projocals IV TRANSITION FOR PERMIT for such projects IV TRANSITION FOR PERMI	rm 3160-5	DEDARTMENT	OF THE INTERIOR	₽ k w	Expires: March 31, 1993
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	J. 10010	sentations as to any matter within its jurisdiction.	* See Instructions on Re		

* See Instructions on Reverse Side

Cemented w/ 350 sx 65-35 + cello flake followed by 320 sx 50/50 + 2% gel

Cemented w/ 200 sx Class "B" + 160 sx 50/50 POZ

199 jts. 1/2", 2.9#, V-55 10R EUE LA 6414'

4-1/2" PRODUCTION CASING: 4-1/2", 10.5#, K-55 ST&C SA 6550'

TUBING REPORT:

Drawn 12/1/98 KB 5777' 12' KB 8-5/8" @ 390' KB DV Tool @ 4536' KB Dakota perfs: 盐6433'-49' w/ 1 JSPF

> PBTD @ 6486' TD @ 6550'

FRUITLAND COAL RECOMPLETION PROCEDURE

FEDERAL A NO. 2E NE/4NW/4 SEC. 26, T30N-R13W SAN JUAN COUNTY, NEW MEXICO

CURRENT STATUS

Total Depth: 6570' KB

Casing: 4 1/2" 10.5# K-55 ST&C set @ 6550' KB. DV TOOL @ 4536'.

PBTD: 6486'

Top Cement: +/-1800'

Tubing Depth: 1 1/2" Dakota string @ +/- 6414' KB.

Producing Formation: Dakota

Dakota Perforations: 6433' (top) - 6449' (bottom)

All personnel on location will be on Questar's Approved Vendor List and will comply with Questars' environmental and safety policies.

- Install and/or test anchors to 25,000#. MIRUSU. Blow well down. If necessary, kill well Procedure: 1. with 2% KCL water. NDWH. NUBOP.
- TOH with 1 1/2" Dakota tubing and lay down. 2.
- Set a RBP @ \pm -2000' in 4 1/2" csg. Dump 3 sx sand on top of plug. 3.
- Load hole with 2% KCL water and pressure test 4 1/2" casing and plug to 2000 psig. 4.
- Run a cement bond log to verify top-of-cement. If cement over Fruitland Coal has sufficient bond and has good isolation from other hydrocarbon and fresh water aquifers, 5. proceed with step 6. If poor bond or isolation, squeeze cement to provide a minimum of 200' isolation above and below Fruitland Coal formation.
- Perforate Fruitland Coal interval from 1750' to 1770' with 4 jspf, 90 degree phasing, 6. large hole and premium charges.
- Rig up Dowell and frac following an approved pumping schedule. 7.
- Flow back after frac. When well logs off and dies, TIH with 1 1/2" tubing and tag fill. If 8: necessary, clean out sand to top of plug. Swab well to kick-off.
- RDMOSU. Return well to production producing from the Fruitland Coal formation. 9.
- When well cleans up and rates stabilize, pull plug and RIH with packer and Dakota tubing. Set packer to isolate zones, and dually produce Dakota and Fruitland Coal 10. formations.