

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

FORM APPROVED  
OMB NO. 1004-0136  
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		070 FARMINGTON, NM	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>	
2. NAME OF OPERATOR XTO Energy Inc.			
3. ADDRESS AND TELEPHONE NO. 2700 Farmington Ave., Bldg. K. Ste 1 Farmington, NM 87401			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 940' FSL & 1,485' FWL in Sec 35, T31N, R12W At proposed prod. zone same as above			
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 9 air miles northwest of the Flora Vista Post Office			
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 940'		16. NO. OF ACRES IN LEASE 320	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. first well on lease		19. PROPOSED DEPTH 2,525'	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5,863' Ground Level		17. NO. OF ACRES ASSIGNED TO THIS WELL 320 5/2	
		20. ROTARY OR CABLE TOOLS 0-2,525' with Rotary Tools	
		22. APPROX. DATE WORK WILL START* Fall 2002	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-3/4"	7", J-55	20.0#/ft	+200'	75 sx Type III or C1 B cement
6-1/4"	4-1/2", J-55	10.5#/ft	+2,525'	250 sx Premium Lite cement

XTO ENERGY INC. Request approval to drill the above mentioned well as described in the enclosed Surface Use Plan and proposed Drilling Program.

Note: The El Paso Field Services welltie plat is also included for their ROW.

DRILLING OPERATIONS AUTHORIZED ARE  
SUBJECT TO COMPLIANCE WITH

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

APD/ROW

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Drilling Engineer DATE 7/19/02

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Ret Eng DATE 11/18/02

\*See Instructions On Reverse Side

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.

DISTRICT I  
1825 N. French Dr., Hobbs, N.M. 88240

DISTRICT II  
811 South First, Artesia, N.M. 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 15, 2000

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-31152	<sup>2</sup> Pool Code 71629	<sup>3</sup> Pool Name BASIN FRUITLAND COAL
<sup>4</sup> Property Code 30938	<sup>5</sup> Property Name OLIVER GAS COM	<sup>6</sup> Well Number 2
<sup>7</sup> GRID No. 167067	<sup>8</sup> Operator Name XTO ENERGY INC.	<sup>9</sup> Elevation 5863'

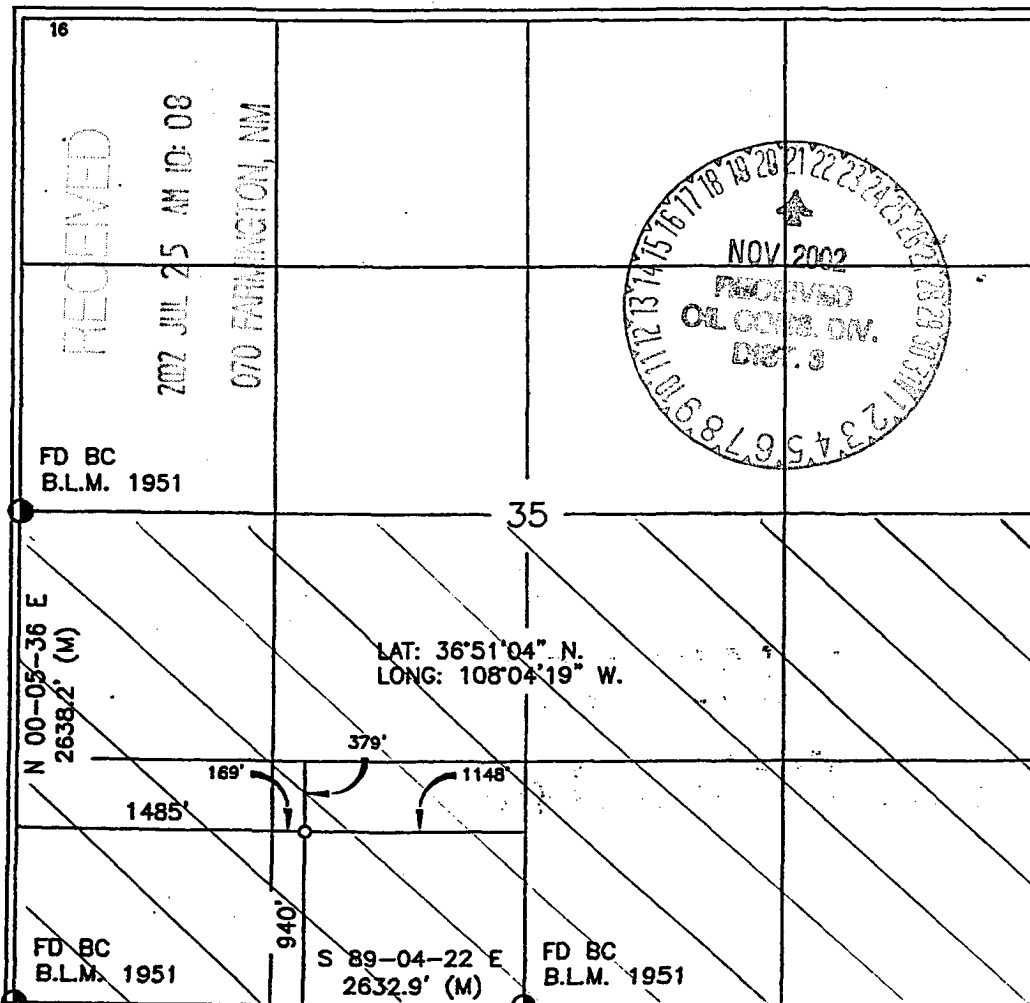
<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	35	31-N	12-W		940'	SOUTH	1485'	WEST	SAN JUAN

<sup>11</sup> 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/West line	County
<sup>12</sup> Dedicated Acres 370 5/2		<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein  
is true and complete to the best of my knowledge and  
belief

Signature  
JEFFREY W. DATTEN  
Printed Name  
DRILLING ENGINEER  
Title  
7-17-02  
Date

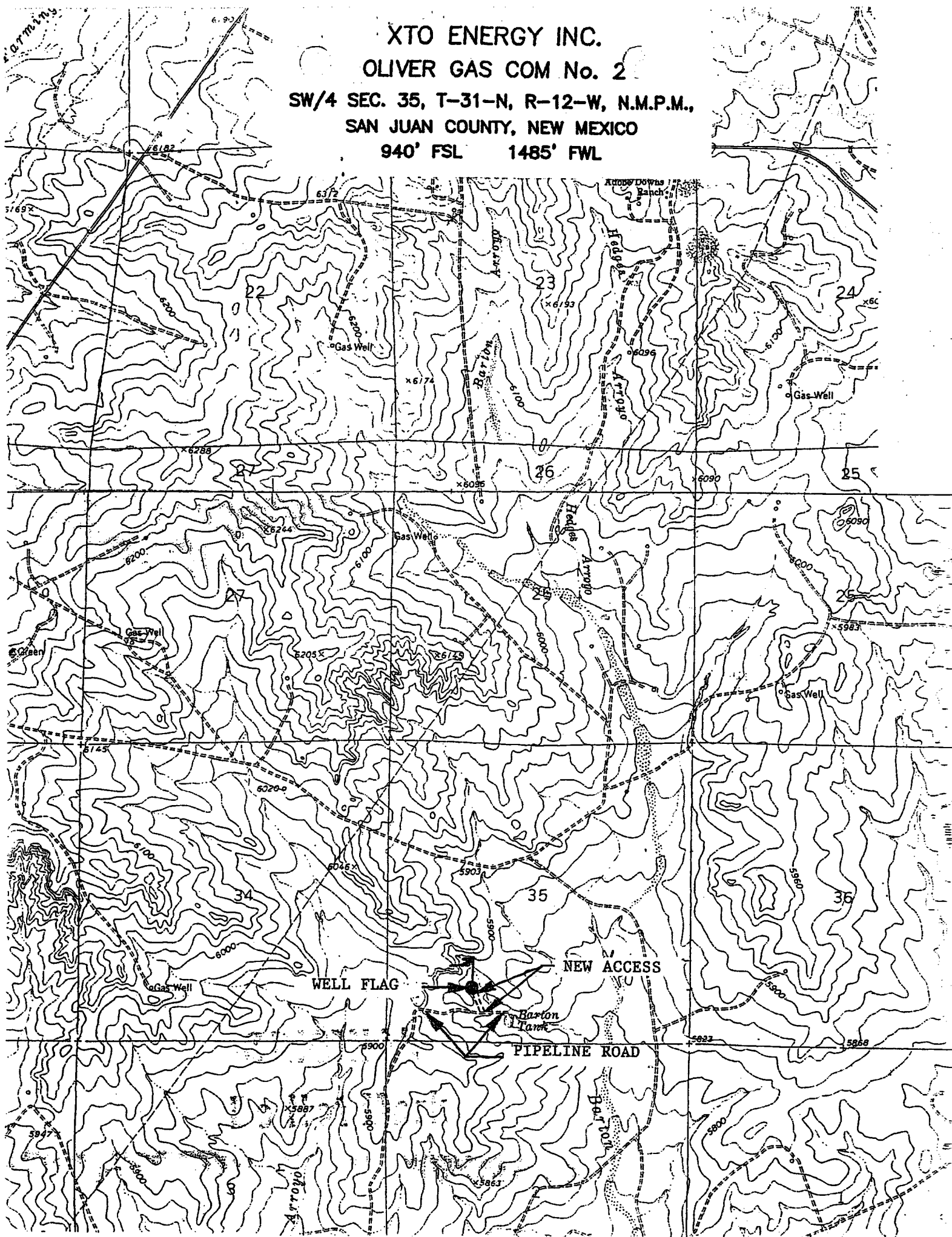
18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat  
was plotted from field notes of actual surveys made by  
me or under my supervision and that the same is true  
and correct to the best of my belief

Date of Survey  
Signature and Seal of Professional Surveyor  
8894  
Certificate Number

XTO ENERGY INC.  
OLIVER GAS COM No. 2

SW/4 SEC. 35, T-31-N, R-12-W, N.M.P.M.,  
SAN JUAN COUNTY, NEW MEXICO  
940' FSL 1485' FWL



**XTO ENERGY INC.**  
**DRILLING PROCEDURE**  
**OLIVER GAS COM #2**  
**Basin Fruitland Coal**  
**July 19, 2002**

**Location:** 940' FSL & 1,485' FWL, Sec 35, T31N, R12W    **County:** San Juan    **State:** New Mexico

**PROJECTED TOTAL DEPTH:** 2,525'  
**GR ELEV:** 5,863'

**OBJECTIVE:** Fruitland Coal

**1.    MUD PROGRAM:**

INTERVAL	0'-200'	200'-TD
HOLE SIZE	8-3/4"	6-1/4"
MUD TYPE	FW/Native	FW/Polymer
MUD WEIGHT, ppg	8.6-9.0	8.6-9.1
VISCOSITY, sec/qt	28-32	28-33
WATER LOSS, cc	NC	NC

Remarks: Drill the surface hole with fresh water. Run and cement 7" surface casing, circulating cement to surface. NU and test BOP equipment, then drill out with fresh water. Use polymer sweeps as needed for hole cleaning. At TD, sweep the hole prior to TOH to log.

**2.    CASING PROGRAM:**

**Surface Casing:**        7" casing to be set at  $\pm$  200' in 8.8 ppg mud.

Interval	Length	Wt (ppf)	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	DD (in)	SF Coll	SF Burst	SF Tension
0'-200'	200'	20#	J-55	STC	2,270	3,740	234	6.456	6.331	9.99	4.59	58.5

Optimum makeup torque for 7" 20#, J-55, STC casing is **2,340 ft-lbs** (Min - 1,760 ft-lbs, Max - 2,930 ft-lbs).

**Production Casing:**        4-1/2" casing to be set at  $\pm$  2,525' in 8.8 ppg mud.

Interval	Length	Wt (ppf)	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	DD (in)	SF Coll	SF Burst	SF Tension
0'-TD	2,525'	10.5#	J-55	STC	4,010	4,790	132	4.052	3.927	3.57	3.33	5.24

Optimum makeup torque for 4-1/2", 10.5#, J-55, casing is **1,320 ft-lbs** (Min - 990 ft-lbs, Max - 1,650 ft-lbs).

Capacity of 7", 20# casing is: 0.04048 bbl/ft

Capacity of 4-1/2", 10.5# casing is: 0.01595 bbl/ft

3. **WELLHEAD:**

Casinghead: Larkin Fig 92 (or equivalent) 2,000 psig WP (4,000 psig test) with 7", 8rd pin on bottom and 8-5/8" API Modified 8rd thread on top.

Tubinghead: Larkin Model 612 (or equivalent) 2,000 psig WP (4,000 psig test) with 4-1/2", 8rd bottom thread and 8-5/8" 8rd API Modified top body thread, 4.090" minimum bore.

4. **CEMENT PROGRAM:**

A. **Surface:** 7", 20#, J-55, STC casing at  $\pm 200'$ .

Lead: 75 sx Type III cement (or equivalent) containing  $\frac{1}{4}$  pps celloflake, 2%  $\text{CaCl}_2$  (mixed at 14.6 ppg, 1.39  $\text{ft}^3/\text{sk}$ , 6.67 gal wtr/sk).

Total slurry volume is 104.25  $\text{ft}^3$ , 250% excess of calculated annular volume required to circulate cement to surface.

B. **Production:** 4-1/2", 10.5#, J-55, STC casing at  $\pm 2,525'$ .

Lead: 250\* sx of 35:65 Poz/Type III cement containing 10 PPS CSE, 2%  $\text{CaCl}_2$ ,  $\frac{1}{4}$  PPS Celloflake, 0.65% bwoc FL-62, 6% gel (mixed at 12.5 ppg, 2.07  $\text{ft}^3/\text{sk}$ , 10.95 gal wtr/sk).

Total estimated slurry volume is 517  $\text{ft}^3$ ,  $\pm 100\%$  excess of calculated annular volume required to circulate cement to surface.

\* Actual cement volumes will be determined using log caliper volume plus 30% excess.

5. **DRILLING HAZARDS:**

- **H<sub>2</sub>S or other Poisonous Gases:** No formations known to contain H<sub>2</sub>S or any other poisonous gases will be penetrated with this wellbore.
- **Abnormal Pressures:** No overpressured zones are known to exist or are anticipated to be encountered during the drilling of this well.
- **Lost Circulation:** Seepage and/or lost circulation may be encountered below surface casing and can be controlled with conventional lost circulation materials added to the mud system.

6. **LOGGING PROGRAM:**

Array Induction/DFL/GR/SP/Cal  
DSN/Spectral Density/GR/Cal/Pe

TD to bottom of surf csg.  
TD to 1000'

No mud logger to be used on this well.