

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078115 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Thurston Com 9. Well Number #101
4. Location of Well Surf: Unit D(NWNW), 665' FNL & 1276' FWL Surf: Latitude 36.861062° N Longitude 108.036497° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 31, T31N, R11W API # 30-045-34615
14. Distance in Miles from Nearest Town 4 miles/Aztec	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 665'	
16. Acres in Lease 2421.8 Acres	17. Acres Assigned to Well 322.3 (N/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 541' from Thurston 1A - MV	
19. Proposed Depth 2673'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6006' GR	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	2/27/08 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

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 presentations as to any matter within its jurisdiction.

Example Master Plan Type 2

Bond Numbers NMB-000015 and NMB-000089

H₂S POTENTIAL EXIST

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

NMOC
APR 01 2008
AV

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING CEMENT
ENT

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- <u>34615</u>		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code <u>37061</u>	*Property Name THURSTON COM		*Well Number 101
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.		*Elevation 6006

¹⁰ Surface Location

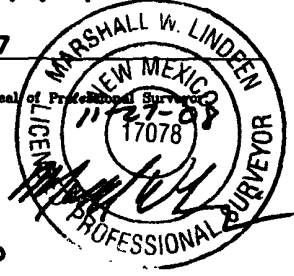
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	31	31 N	11 W		665	NORTH	1276	WEST	SAN JUAN

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/West line	County
D									

¹² Dedicated Acres 322.3 (N/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

¹⁶ S 89°21'24" E 2683.13' NAD 83 LAT: 36.861062° N LONG: 108.036497° W LOT 1 1276' 665' 2639.11' N 0°26'10" E 2684.01' N 0°05'11" E N 89°58'08" W 2608.61'	LOT 2 NAD 27 LAT: 36° 51.6635' N LONG: 108° 02.1523' W USA SF-078115 SECTION 31	ADA L. FITZ ET VIR T.F. THURSTON ET UX 2648.62' 2636.14' S 1°11'21" W 2637.10' S 1°09'58" W 2638.58'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <u>Sasha Spangler</u> 11-29-07 Signature Date Sasha Spangler Printed Name
			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. 11/08/07 Date of Survey Signature and Seal of Professional Surveyor  <u>17078</u> Certificate Number

Office

Energy, Minerals and Natural Resources

May 27, 2004

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045- 34615

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

USA SF-078115

7. Lease Name or Unit Agreement Name

Thurston Com

8. Well Number

#101

9. OGRID Number

14538

10. Pool name or Wildcat

Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter D : 665' feet from the North line and 1276' feet from the West line .
Section 31 Township 31N Rng 11W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6006' GR

Pit or Below-grade Tank Application

☐ or Closure ☐

Pit type

New Drill

Depth to Groundwater

>100

Distance from nearest fresh water well

>1000

Distance from nearest surface water

>1000

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

bbls;

Construction Material

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data**NOTICE OF INTENTION TO:**PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐**SUBSEQUENT REPORT OF:**REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐

OTHER:

New Drill

☒

OTHER:

☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Lined:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCD office.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

2/13/2008

Type or print name

Crystal Walker

E-mail address:

tal.walker@conocophillips

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

APR 01 2008

Conditions of Approval (if any):

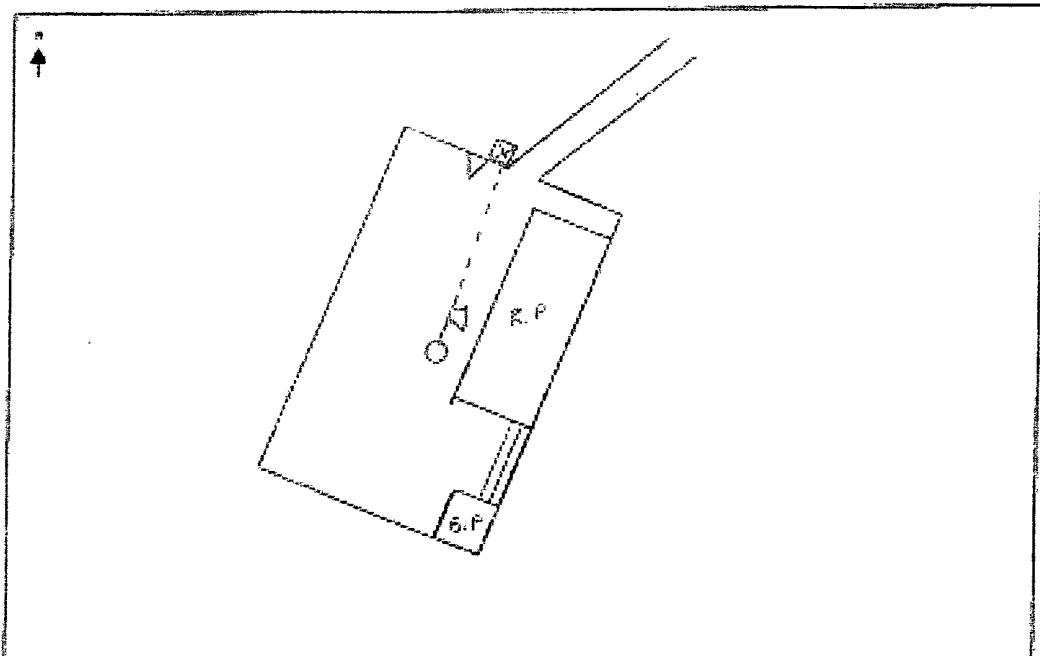


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Thurston Corp #101 LEGALS D- 31-91-11 COUNTY McDon

PURPOSED C.P. SYSTEM: Drill RP and set anode on N edge of this location. French
drain 200' or 250' from proposed well to anode



COMMENTS: _____

NEAREST POWER SOURCE RP 11440 DISTANCE: 000'

PIPELINES IN AREA: Emery PL

TECHNICIAN: Michael H. Hines DATE: 03/01/07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-9271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

THURSTON COM 101

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7358		AFE \$: 210,664.74	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: 505-326-9762		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):	
Zone	Zone Name
JCV	BASIN FRUITLAND COAL (GAS)

Location:		Datum Code: NAD 27	
Latitude: 36.861059	Longitude: -108.035872	X:	Y:
Footage X: 1276 FWL		Footage Y: 665 FNL	
Elevation: 6006 (FT)		Township: 031N	

Tolerance:	
Location Type: Year Round	Start Date (Est.): 1/1/2009
Completion Date:	Date In Operation:

Formation Data: Assume KB = 6018		Units = FT				
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	5898	<input type="checkbox"/>			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
OJO ALAMO	1105	4913	<input type="checkbox"/>			
KIRTLAND	1120	4898	<input type="checkbox"/>			
FRUITLAND	2018	4000	<input type="checkbox"/>	300		Gas
PICTURED CLIFFS	2473	3545	<input type="checkbox"/>			Gas
Total Depth	2673	3345	<input type="checkbox"/>			6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 411 cuft. Circulate cement to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Grenier 23E	NW31-31N-11W

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo

TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
GR/CBL no OH logs no mudlogger	

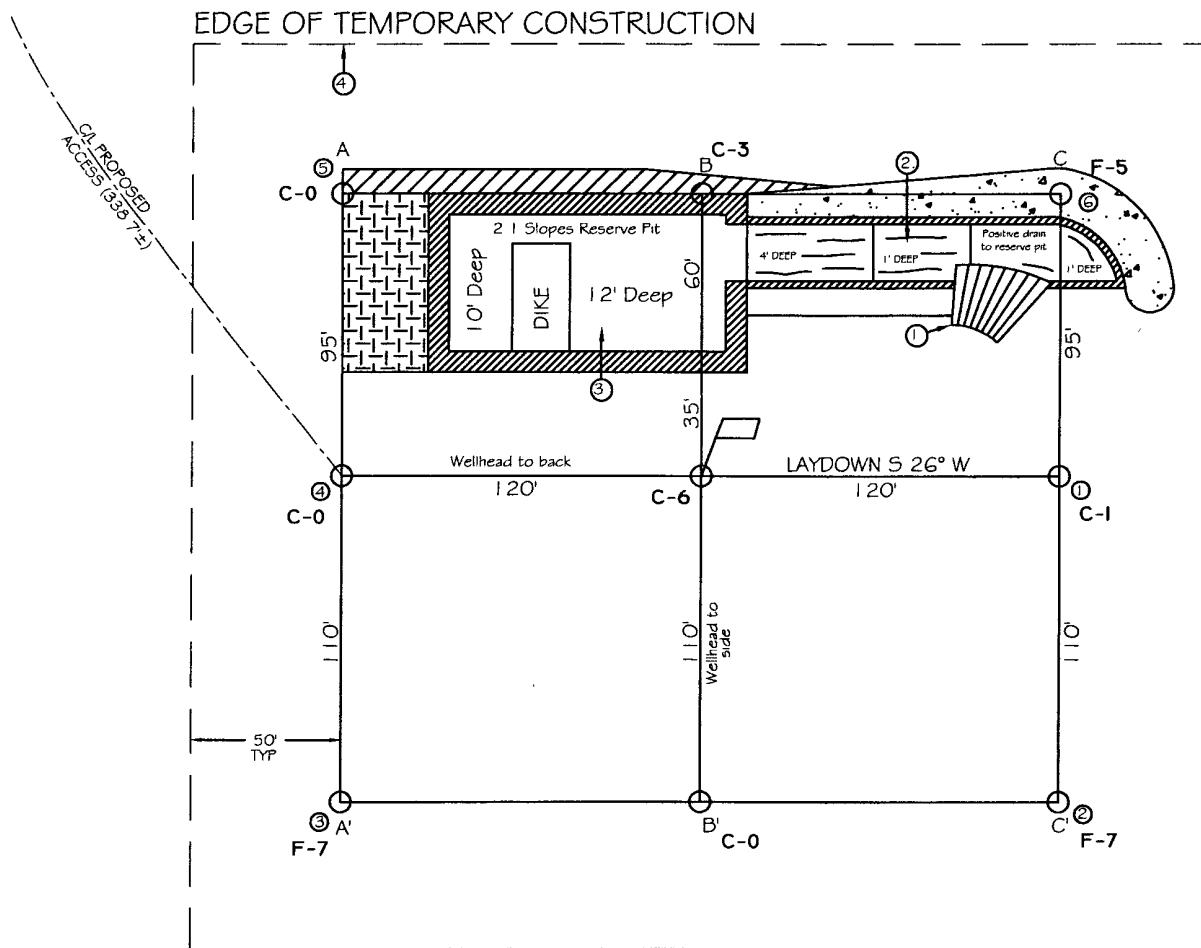
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

Comments:

BURLINGTON RESOURCES OIL & GAS COMPANY LP.
 THURSTON COM 101 - 665' FNL & 1276' FWL
 SECTION 31, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M.
 GRADED ELEVATION: 6006 - DATE: NOVEMBER 8, 2007

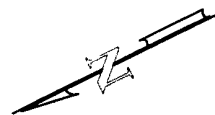
PAD CONST. SPECS

1. RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE
2. APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER
3. RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE)
4. EDGE OF TEMPORARY CONSTRUCTION DEFINED IN FIELD W/G T-POST



WELLPAD = 1.13 ACRES
 TEMPORARY CONSTRUCTION = 1.25 ACRES
 TOTAL = 2.38 ACRES

LATITUDE 36°51.6635' N LONGITUDE 108°02.1523' W NAD 27



0 30 60
 SCALE: 1"=60'

NOTES

- 1.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST.
- 2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 11/08/07

REV. DATE:

APP. BY M.W.L.

DRAWN BY: H.S.

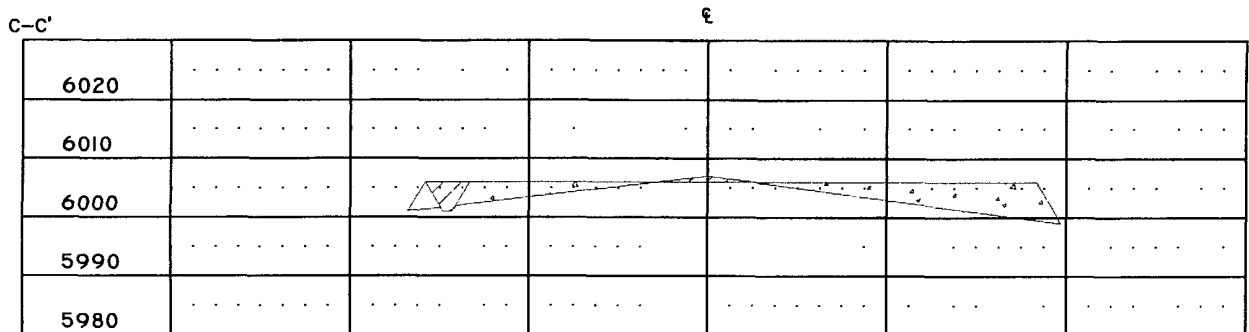
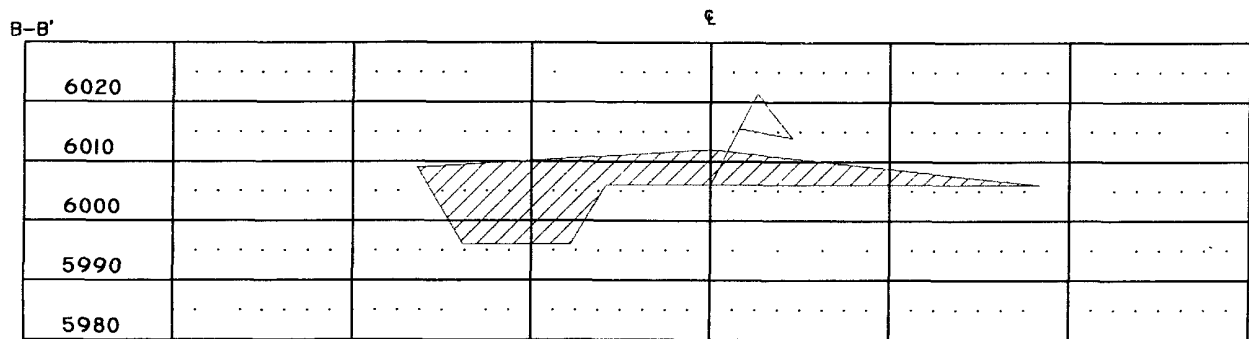
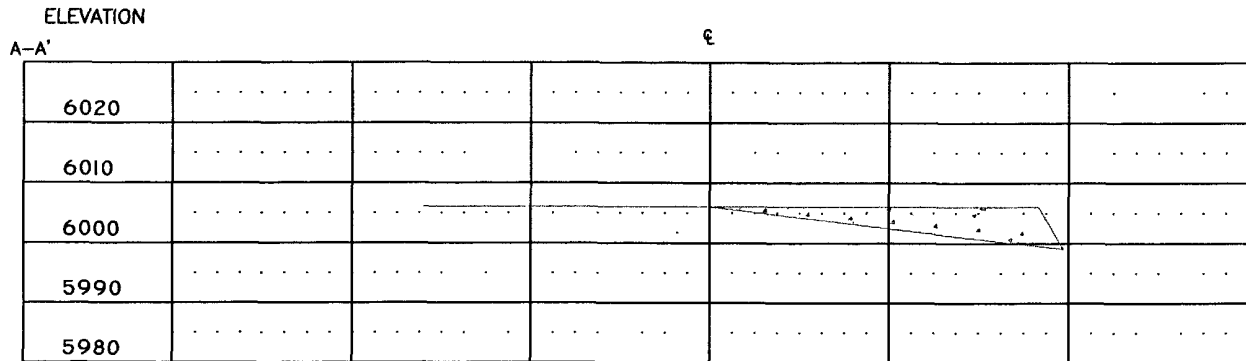
DATE DRAWN: 11/14/07

FILE NAME: 8111L01



P.O. BOX 3851
 FARMINGTON, NM 87499
 OFFICE: (505)334-0408


BURLINGTON RESOURCES OIL & GAS COMPANY LP.
 THURSTON COM 101 - 665' FNL & 1276' FWL
 SECTION 31, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M.
 GRADED ELEVATION: 6006 - DATE: NOVEMBER 8, 2007



1" = 60' - HORIZ.
 1" = 30' - VERT.

NOTES

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- 2) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 11/08/07	REV. DATE:	APP. BY M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 11/14/07	FILE NAME: 8111C01
 <div style="text-align: right;"> P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408 </div>		