

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	<div style="text-align: center;"> RECEIVED MAR 05 2008 Bureau of Land Management Farmington Field Office </div>	5. Lease Number USA SF-043260-C 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 Fogelson 4	9. Well Number #100S
4. Location of Well Surf: Unit A(NENE), 1005' FNL & 1040' FEL Surf: Latitude 36.75859° N Longitude 107.39158° W	10. Field, Pool, Wildcat Basin FC/ Basin PC Aztec	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 4, T29N, R11W API # 30-045-34624
14. Distance in Miles from Nearest Town 5.3 miles/Bloomfield	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1005'		
16. Acres in Lease 346.050	17. Acres Assigned to Well FC - 305.89 (E/2) PC - 145.89 (NE/4)	
18. Distance from Proposed Location to Nearest Well, Drtg, Compl, or Applied for on this Lease 52' from Fogelson 4 #1E - DK		
19. Proposed Depth 2326'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5879' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	U.S. APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	
24. Authorized by: <u>Crystal Walker</u> Crystal Walker (Regulatory Technician)	Date <u>3/5/08</u>	

PERMIT NO. _____ APPROVAL DATE 3/25/08
APPROVED BY [Signature] TITLE AFM DATE 3/25/08

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

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

NMOC

APR 01 2008

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

RECEIVED

MAR 05 2008

Bureau of Land Management
Farmington Field Office

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

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

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

DISTRICT IV
1220 South St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-34624		*Pool Code 71629/1280	*Pool Name BASIN FRUITLAND COAL/Picture Cliffs
*Property Code 7026	*Property Name FOGELSON 4		*Well Number 1005
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		*Elevation 5879

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
A	4	29-N	11-W		1005	NORTH	1040	EAST	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
A									
*Dedicated Acres FC-305.89 (E2) PC-145.89 (NE4)			*Joint or Infill		*Consolidation Code		*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

<p>16</p> <p>FD. 3 1/4" BC. 1989 B.L.M.</p> <p>N 88-35-59 W 2604.63' (M)</p> <p>LOT 4 33.36 AC</p>		<p>FD. 3 1/4" BC. 1989 B.L.M.</p> <p>N 88-35-59 W 2604.63' (C)</p> <p>USA SF-076386</p> <p>LOT 3 33.19 AC</p> <p>LOT 2 33.03 AC</p>		<p>CALC'D. CORNER N 88°35'07" W 283.54'</p> <p>CLOSING CORNER FD. 3 1/4" BC. 1987 B.L.M.</p> <p>LOT 1 32.88 AC</p> <p>1040'</p>	
		<p>USA SF-076387</p> <p>LAT: 36.75859° N. (NAD 83) LONG: 107.99158° W. (NAD 83) LAT: 36°45.5152' N. (NAD 27) LONG: 107°59.4577' W. (NAD 27)</p>		<p>N 00-24-48 W 2427.44' (C)</p>	
		<p>4</p> <p>USA SF-043280-C</p> <p>CALC. CORNER BY SINGLE PROP.</p>		<p>N 00-05-36 E 2629.57' (C)</p>	
		<p>FD. 3 1/4" BC. 1987 B.L.M.</p>			

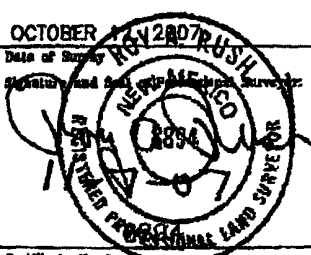
17 OPERATOR CERTIFICATION

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 undivided 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.

Crystal Walker 3/5/08
Signature Date
Crystal Walker 3-5-08
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 to true and correct to the best of my belief.

OCTOBER 11 2007
Date of Survey
Signature and Seal of Registered Surveyor

Certificate Number

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- 34624	
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. USA SF-076386	
7. Lease Name or Unit Agreement Name Fogelson 4	
8. Well Number 100S	
9. OGRID Number 14538	
10. Pool name or Wildcat Basin Fruitland Coal/Blanco Pictured Cliffs	

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 A : 1005' feet from the North line and 1040' feet from the East line
Section 4 Township 29N Rng 11W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5879"

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: N/A mil Below-Grade Tank: Volume bbls; Construction Material 2cc

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 Sasha Spangler TITLE Regulatory Technician DATE 1/3/2008

Type or print name Sasha Spangler E-mail address: spangs@conocophillips.com Telephone No. 505-326-9568

For State Use Only

Deputy Oil & Gas Inspector,
District #3

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 01 2008

Conditions of Approval (if any):

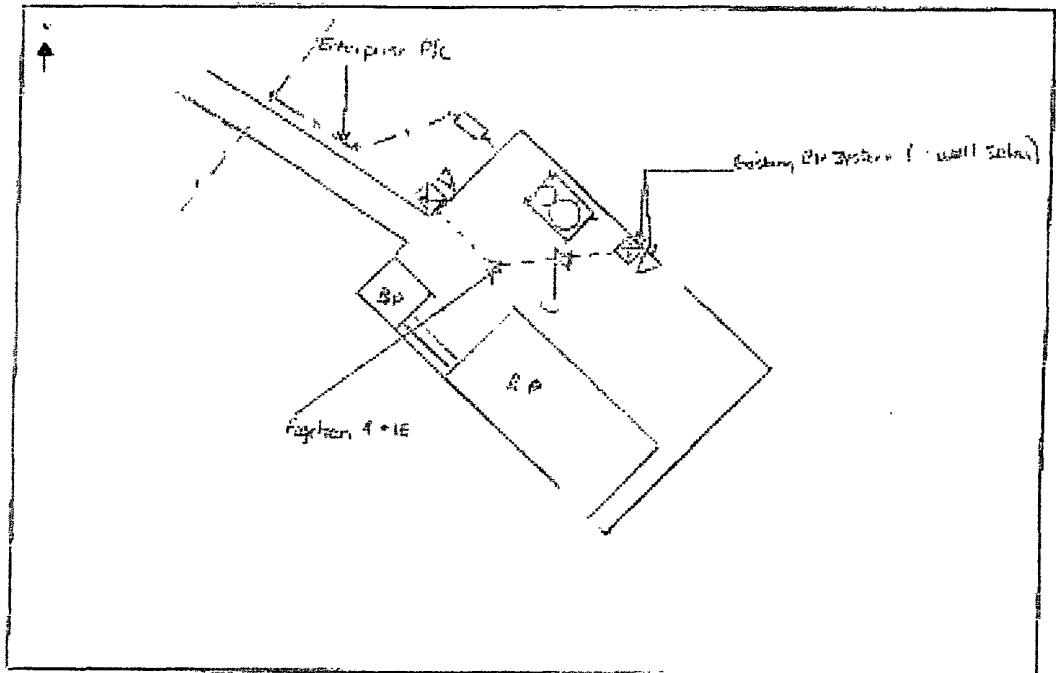


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Englehorn 4 + 1E LEGALS A-4-29-11 COUNTY San Juan

PURPOSED C.P. SYSTEM: Wizards and cathodes 3000 lb to the West side of location.
Drill was 42" Tranch made with 42" drill pipe from 41E to 3000 lb Tranch again 41E
41E was then moved west to 3000 lb.



WELL HEAD	WELL BODY	WELL	POWER SOURCE	CABLE	WELL HEAD	WELL BODY

COMMENTS: 2.14V / 2.20 = 1.2 ohm SB

NEAREST POWER SOURCE N/A DISTANCE: _____
PIPELINES IN AREA: Catepillar P/L

TECHNICIAN: Donald H. Hargis DATE: 10/30/07

8 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

FOGELSON 4 100S

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7320		AFE \$:	
Field Name: hBR_SAN JUAN		Rig: XXX 2009 Shallow		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Clark, Dave D		Phone: 505-326-9762	Prod. Engineer:		Phone:
Res. Engineer:		Phone:	Proj. Field Lead:		Phone:
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				
UPL	BLANCO PICTURED CLIFFS				
Location: Surface Datum Code: NAD 27					
Latitude: 36.758585	Longitude: -107.990957	X:	Y:	Section: 04	Range: 011W
Footage X: 1040 FEL	Footage Y: 1005 FNL	Elevation: 5879	(FT)	Township: 029N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	Date In Operation:
Formation Data: Assume KB = 5891 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	5771	<input type="checkbox"/>		
OJO ALAMO	810	5081	<input type="checkbox"/>		
KIRTLAND	937	4954	<input type="checkbox"/>		
FRUITLAND	1747	4144	<input type="checkbox"/>	400	Gas
FRUITLAND COAL	1863	4028	<input type="checkbox"/>		
PICTURED CLIFFS	2126	3765	<input type="checkbox"/>		Gas
Total Depth	2326	3565	<input type="checkbox"/>		
8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.					
6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 357 cuft. Circulate cement to surface.					
Reference Wells:					
Reference Type	Well Name		Comments		

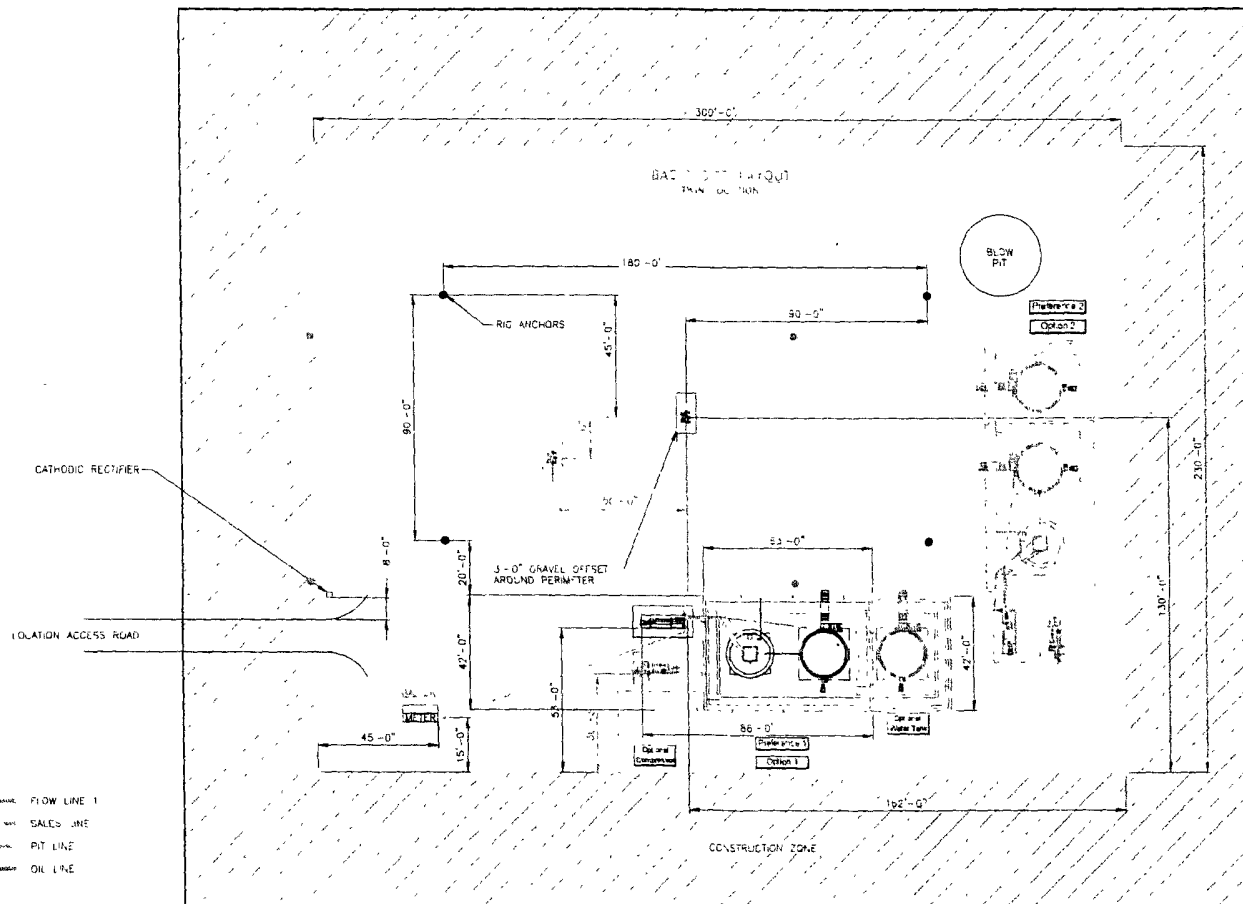
Logging Program:			
Intermediate Logs: <input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input type="checkbox"/> Triple Combo			

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
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Full suite of OH logs: Run PEX from TD to minimum footage to identify coal versus sand in Fruitland.

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


Comment:



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

SEE DETAIL 3 & 4 FOR PUMP DETAILS
 ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS				CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										REVISION	REVIEWED	DATE	NO.	DESCRIPTION						
										PROCESS										
										MECHANICAL										
										PUMP										
										ELECTRICAL										
										INSTRUMENTATION										
										CONSTRUCTION										
										PROJECT										
										DESIGNER	DATE	BY	CHK	ENG	EXC	PRJ	SAN JUAN BUSINESS UNIT		DATE	DRAWN BY
																	HP3PHASE-REV1		DATE	

H:\projects\San Juan Business Unit\San Juan Business Unit Location Site Layout.dwg, 06/28/2007 - 02:39pm

BURLINGTON RESOURCES OIL & GAS COMPANY LP

FOGELSON 4 No. 100S, 1005 FNL 1040 FEL

SECTION 4, T-29-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO

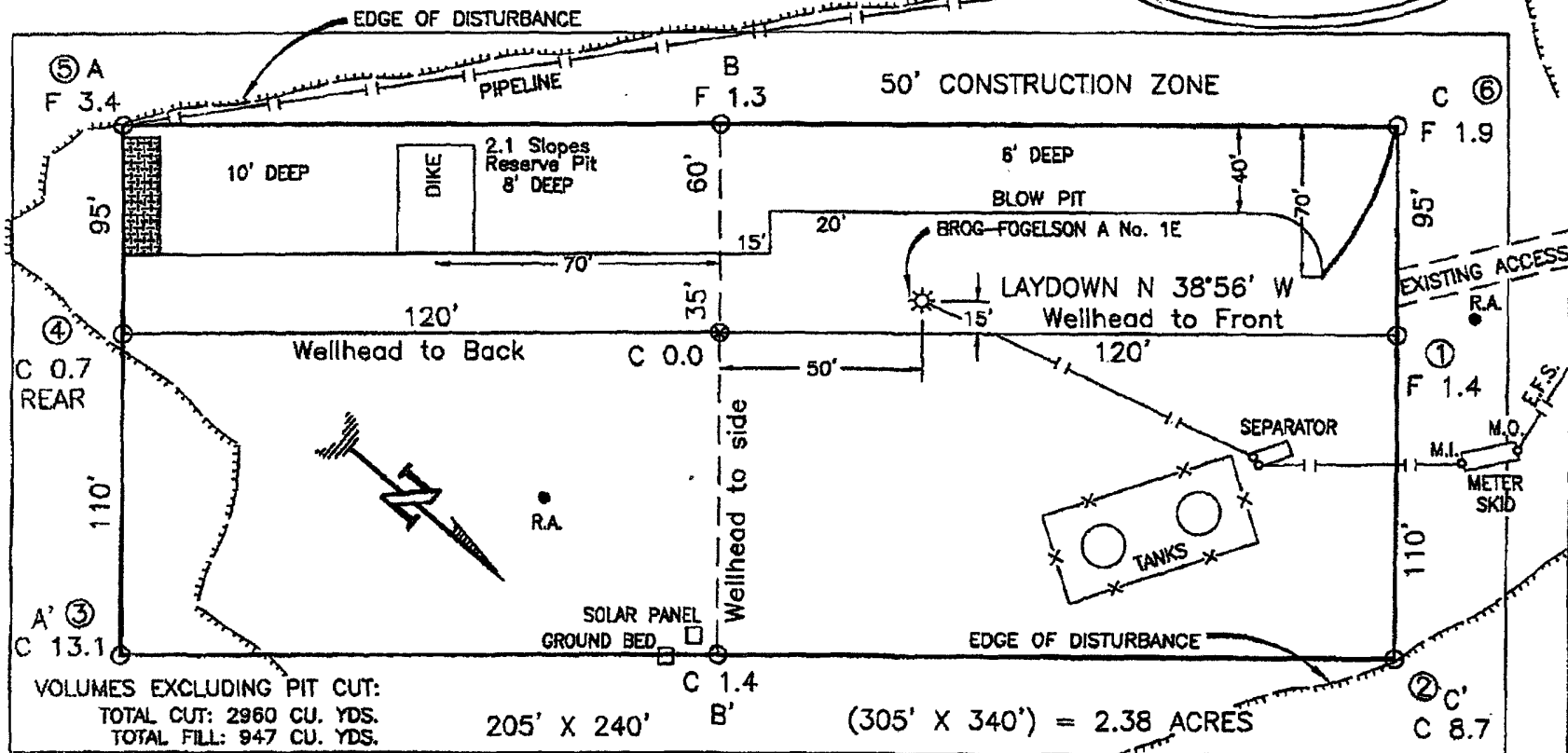
GROUND ELEVATION: 5879, DATE: OCTOBER 12, 2007

NAD 83

LAT. = 36.75859° N.
LONG. = 107.99158° W.

NAD 27

LAT. = 36°45.5152' N.
LONG. = 107°59.4577' W.



RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

BLOW PIT: OVERFLOW PIPE HALFWAY BETWEEN TOP AND BOTTOM AND TO EXTEND OVER PLASTIC LINER AND INTO BLOW PIT.

NOTE:


DAGGETT ENTERPRISES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. UTILITY NOTIFICATION CENTER OF COLORADO TO BE NOTIFIED 48 HOURS PRIOR TO EXCAVATION OR CONSTRUCTION.

NOTE:

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

NOTE:

ESTIMATED VOLUMES CALCULATED BY AVERAGE END AREA AT CROSS-SECTION SHOWN

REVISION	DATE	REVISION BY
 Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 510 • Farmington, NM 87409 Phone (505) 326-1772 • Fax (505) 326-6019 NEW MEXICO L.S. 8894		
DRAWN BY: G.V. CHECKED BY: G.V.	CADD: BRAGA, P.L.S. DATE: 11/02/07	

BURLINGTON RESOURCES OIL & GAS COMPANY LP

FOGELSON 4 No. 100S, 1005 FNL 1040 FEL

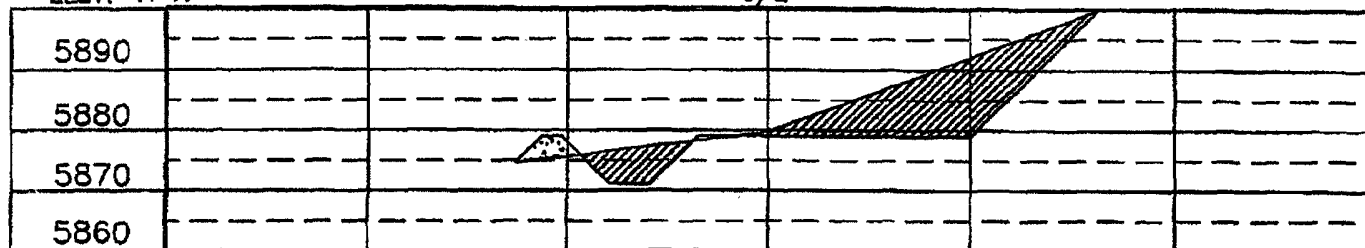
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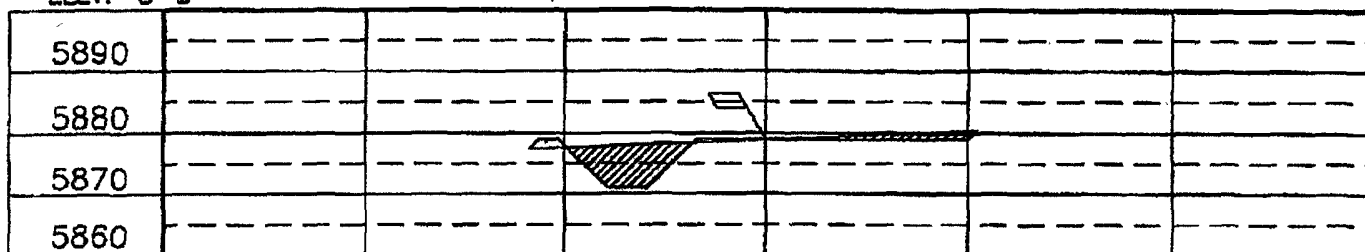
ELEV. A-A'

C/L



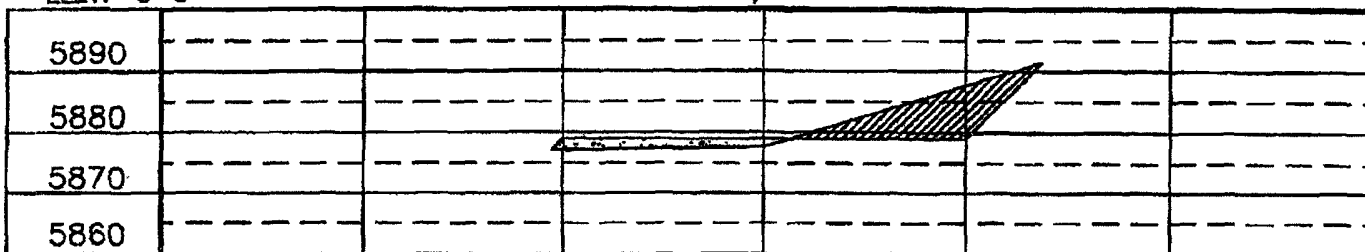
ELEV. B-B'

C/L



ELEV. C-C'

C/L




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DATE	DATE	DATE
 Daggett Enterprises, Inc. Surveying and Oil Field Services P. O. Box 510 • Farmington, NM 87409 Phone (505) 328-1772 • Fax (505) 328-6019 NEW MEXICO L.S. 8894		
DRAWN BY: G.V.	CHECKED: BRB/CFB	
REV: 03/04	DATE: 11/02/07	