

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 15 2008

bureau of Land Management

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK ^{Back}ton Field Office

1a. Type of Work DRILL	5. Lease Number USA SF-079065 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD APR 28 '08	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name OIL CONS. DIV. DIST. 3	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Hagood 9. Well Number 19	
4. Location of Well Surf: Unit O (SWSE), 660' FSL & 1882' FEL Surf: Latitude 706527° N Longitude 108.244921° W	10. Field, Pool, Wildcat Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec.19, T29N, R13W API # 30-045-34688	
14. Distance in Miles from Nearest Town 2 miles/Farmington	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 660'		
16. Acres in Lease 1470.810	17. Acres Assigned to Well 248.92 - (S/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 100' from Hagood 24G		
19. Proposed Depth 5887'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5442' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	4-15-08 Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 4/25/08

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 3

Bond Numbers NMB-000015 and NMB-000089

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

APR 29 2008

NMOC

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

BLM'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

DISTRICT I
1635 N. French Dr., Hobbs, N.M. 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, 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

RECEIVED

APR 15 2008

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 30-045-34688	*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 18533	*Property Name HAGOOD	*Well Number 19
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.	*Elevation 5442

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
22	19	29 N	13 W		660	SOUTH	1882	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
22									

*Dedicated Acres 248.92 (S/2)	*Joint or Infill	*Consolidation Code	*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

	LOT 7 LOT 8 LOT 9	LOT 10 LOT 11 LOT 12 LOT 13	LOT 14 LOT 15 LOT 16 LOT 17 LOT 18	LOT 19 LOT 20 LOT 21 LOT 22 LOT 23	4117.70' 2621.39' S 0°29'47" W 2620.00' S 0°29'40" W 1882' 4127.70'	<h3>17 OPERATOR CERTIFICATION</h3> <p>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.</p> <p><i>Sasha Spangler</i> 04-15-08 Signature Date Sasha Spangler Printed Name</p>
	SECTION 19 NAD 83 LAT: 36.706527° N LONG: 108.244921° W USA SF-079065					<h3>18 SURVEYOR CERTIFICATION</h3> <p>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.</p> <p>10/10/07 Date of Survey Signature and Seal of Professional Surveyor MARSHALL W. LINDEEN NEW MEXICO LICENSED PROFESSIONAL SURVEYOR 17078 Certificate Number</p>
	NAD 27 LAT: 36° 42.3915' N LONG: 108° 14.6574' W					
	N 88°53'43" W 660'					

State of New Mexico

Energy, Minerals and Natural Resources

Form C-103

May 27, 2004

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-045-34688

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

USA SF-079065

7. Lease Name or Unit Agreement Name

Hagood

8. Well Number

#19

9. OGRID Number

14538

10. Pool name or Wildcat

DK

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 O

:

660'

feet from the

South

line and

1882'

feet from the

East

line

Section 19

Township 29N

Rng 13W

NMPM

County

San Juan

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

5442'

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

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

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 ☐

OTHER:

New Drill ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐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

11/1/2007

Type or print name

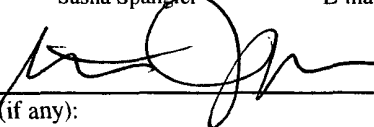
Sasha Spangler

E-mail address: spangs@conocophillips.com

Telephone No. 505-326-9568

For State Use Only

APPROVED BY



TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

APR 29 2008

Conditions of Approval (if any):

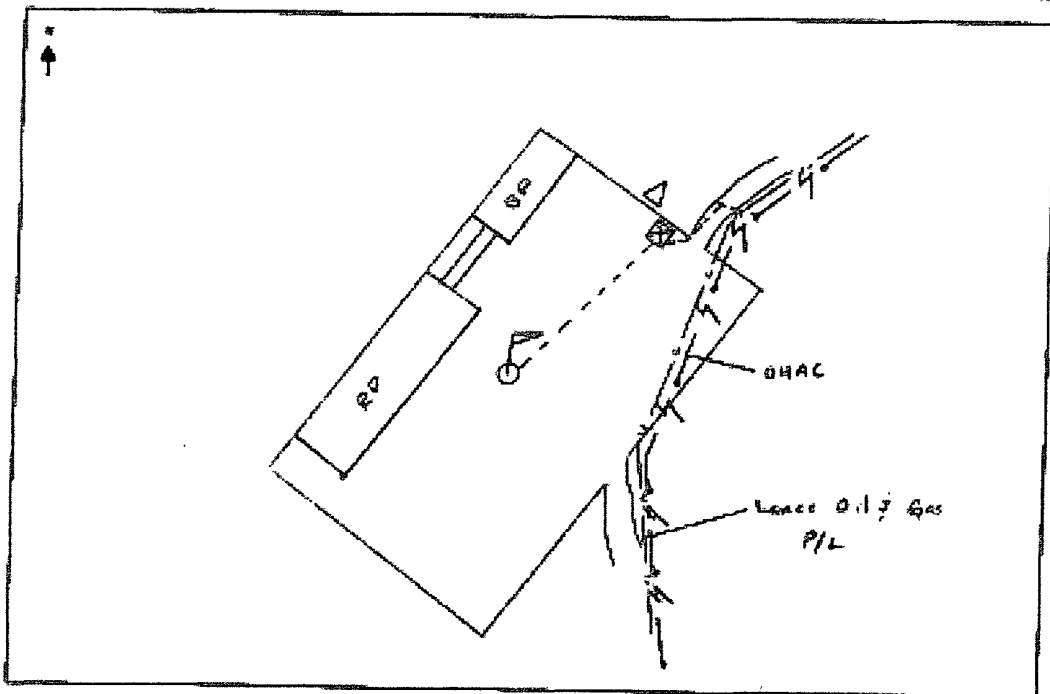


TECHNICAL SERVICES
A CORROSION COMPANY

CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME Hogart #19 LEGALS 0.19 29.13 COUNTY San Juan

PURPOSED C.P. SYSTEM: Drill 60 and set new rectifier @ end of location.
Install approx 500' of #7 negative cable from wellhead to rectifier. Run
cable from span pole to wellhead.



COMMENTS:

NEAREST POWER SOURCE DHAC DISTANCE: 200'
PIPELINES IN AREA: Lance 0.13 Gas

TECHNICIAN: [Signature] DATE: 11/4/88

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

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HAGOOD 19

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7262		AFE \$: 497,946.79	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 301		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				

Location: Surface		Datum Code: NAD 27		Straight Hole	
Latitude: 36.706524	Longitude: -108.244290	X:	Y:	Section: 19	Range: 013W
Footage X: 1882 FEL	Footage Y: 660 FSL	Elevation: 5442	(FT)	Township: 029N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 5454 Units = FT					

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5254	<input type="checkbox"/>			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
FRUITLAND	811	4643	<input type="checkbox"/>			Possible Gas
PICTURED CLIFFS	1136	4318	<input type="checkbox"/>			
LEWIS	1325	4129	<input type="checkbox"/>			
HUERFANITO BENTONITE	1697	3757	<input type="checkbox"/>			
CHACRA	2085	3369	<input type="checkbox"/>			
MASSIVE CLIFF HOUSE	2694	2760	<input type="checkbox"/>			Gas
MENEFEE	2751	2703	<input type="checkbox"/>			
Intermediate Casing	2901	2553	<input type="checkbox"/>			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 654 cuft. Circulate cement to surface.
MASSIVE POINT LOOKOUT	3621	1833	<input type="checkbox"/>			
MANCOS	4001	1453	<input type="checkbox"/>			
UPPER GALLUP	4839	615	<input type="checkbox"/>			
GREENHORN	5627	-173	<input type="checkbox"/>			
GRANEROS	5687	-233	<input type="checkbox"/>			
TWO WELLS	5741	-287	<input type="checkbox"/>	1900		Gas
PAGUATE	5811	-357	<input type="checkbox"/>			
CUBERO	5849	-395	<input type="checkbox"/>			
ENCINAL	5887	-433	<input type="checkbox"/>			
TOTAL DEPTH DK	5887	-433	<input type="checkbox"/>			6-1/4" Hole. 4-1/2", 11.6 ppf, N-80 LTC casing. Cement with 410 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HAGOOD 19

DEVELOPMENT

Logging Program:

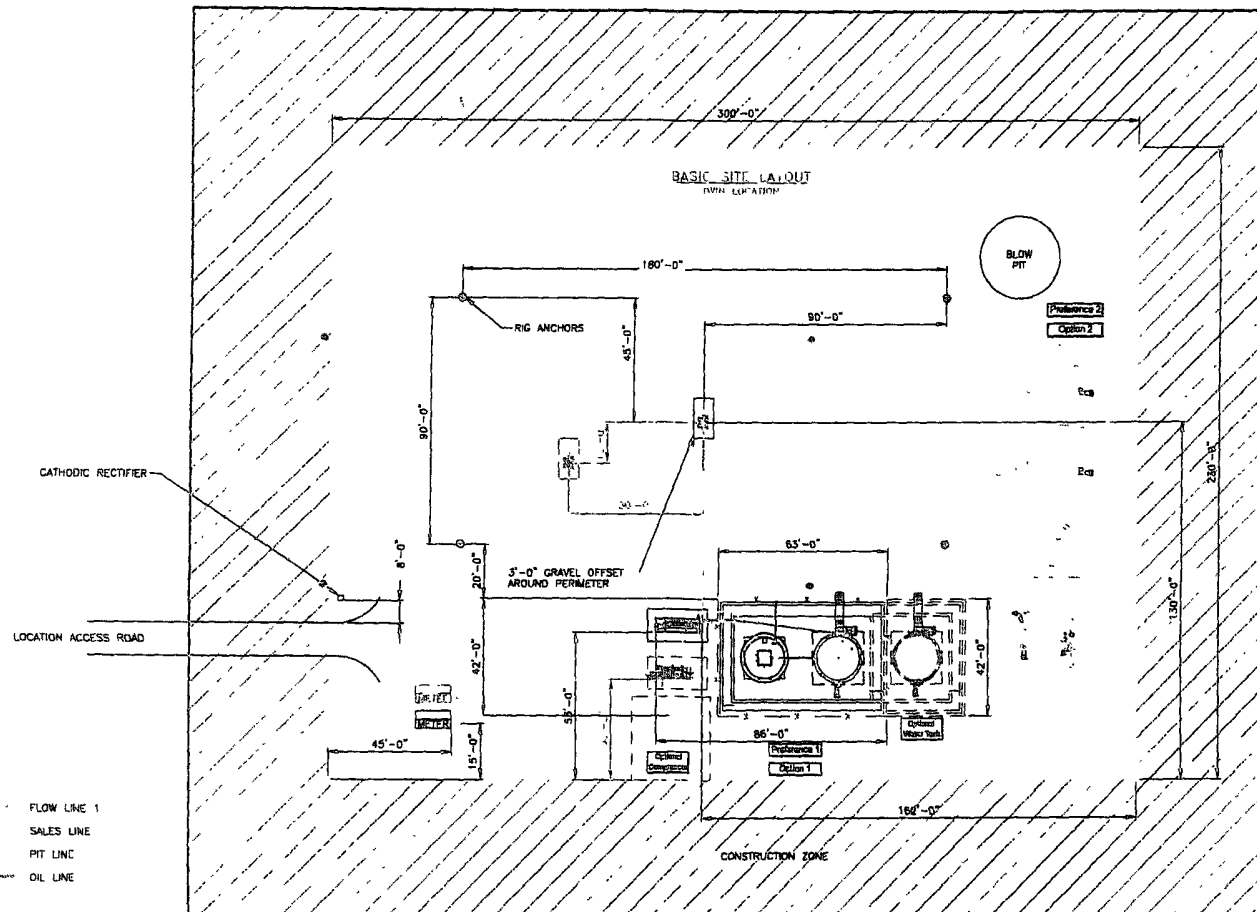
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Est bottom perf ~20' above TD. Run GR/induction/density/neutron from TD to minimum operations footage with GR/induction back to surface if drilling with mud; will likely extend TD to ~40' into Morrison also.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPING IS TO BE TURNED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
NO.	DESCRIPTION	DATE	REVIEWED	DATE	DESIGNED	CHECKED	IN CHARGE	PROJECT	NO.	DESCRIPTION	DATE	CLIENT NO.	CLIENT NAME	APPROVAL
1	PROCESS													
2	MECHANICAL													
3	PIPELINE													
4	ELECTRICAL													
5	I & C													
6	CIVIL/STRUCTURE													
7	PROJECT													
DESCRIPTION										SAN JUAN BUSINESS UNIT		CLIENT NO.	CLIENT NAME	APPROVAL
DATE												DESIGN NO.	DESIGN NAME	DESIGN DATE
												DATE	HP3PHASE-REV1	1 OF 5

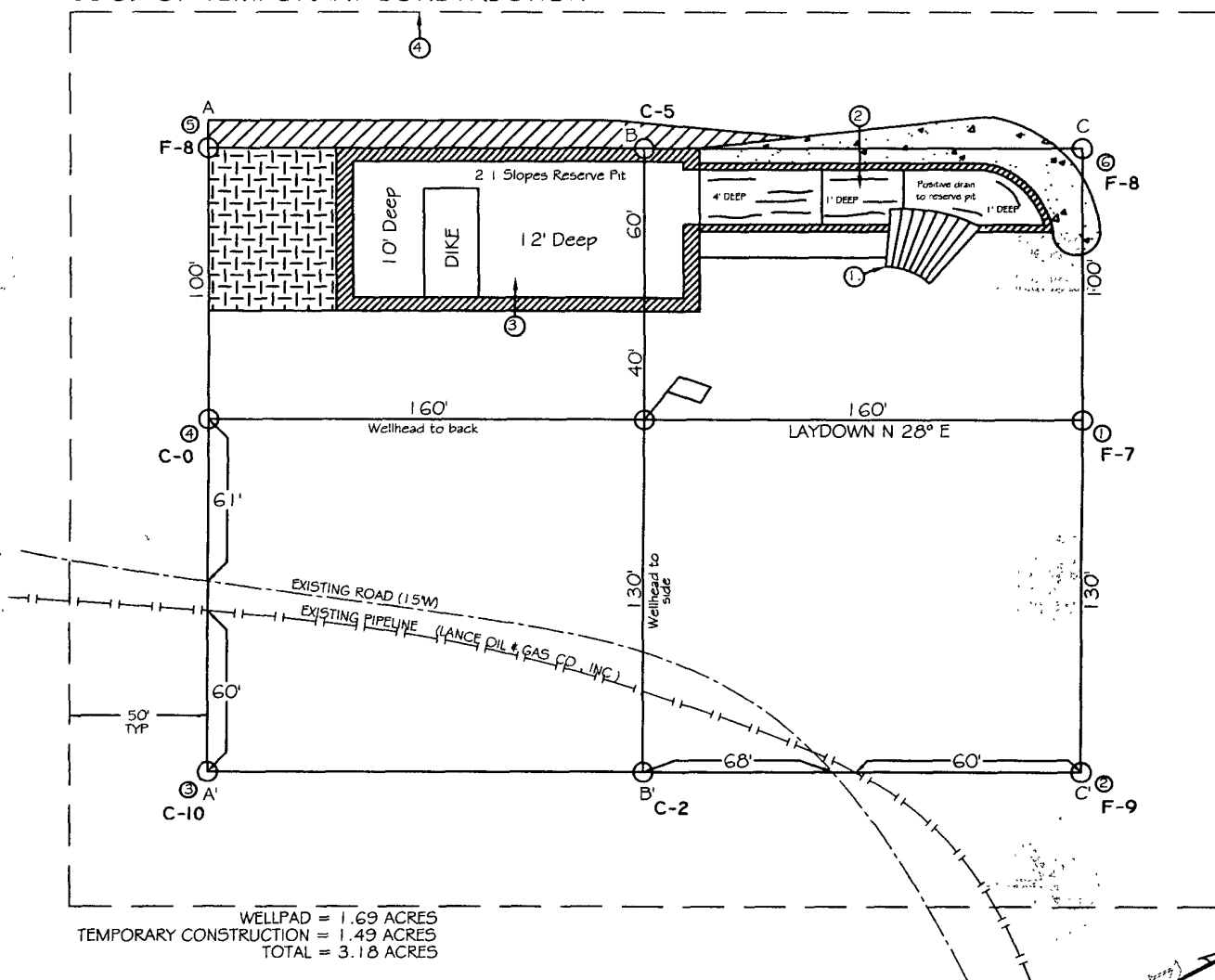
Project: SAN JUAN BUSINESS UNIT Facility Location Site Layout, 06/29/2007 - 02:35pm

BURLINGTON RESOURCES OIL & GAS CO. LP.
HAGOOD 19 - 660' FSL & 1882' FEL
SECTION 19, T-29-N, R-13-W, N.M.P.M., SAN JUAN COUNTY, N.M.
GROUND ELEVATION: 5442 - DATE: OCTOBER 10, 2007

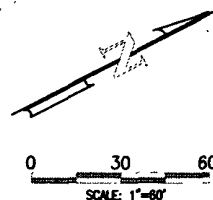
PAD CONST. SPECS

1. RAMP INTO PIT CONSTRUCTED FROM PAD GRADE INTO FLARE AREA AT 5% SLOPE
2. APPROXIMATE 13'x75' PIT AREA LINED WITH 1/2 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

EDGE OF TEMPORARY CONSTRUCTION




LATITUDE: 36°42.3915' N LONGITUDE: 108°14.6574' W NAD 27

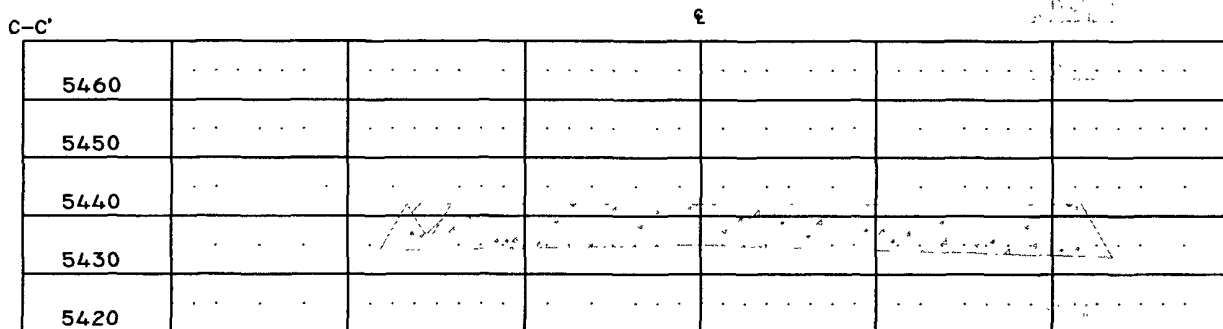
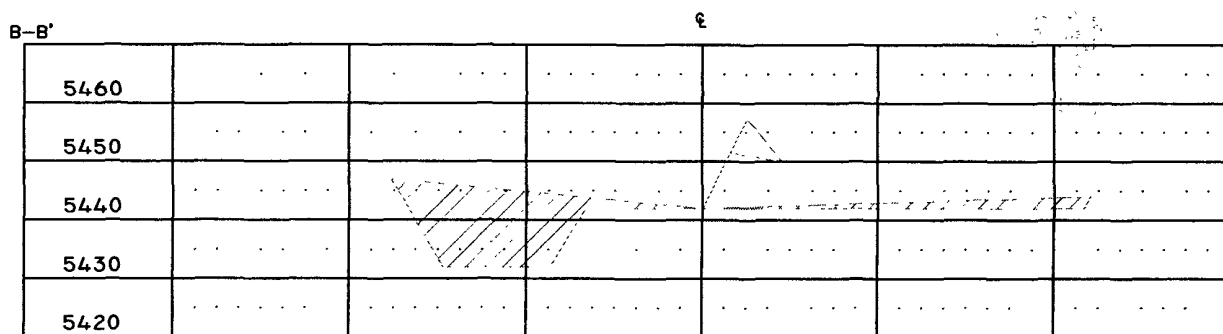
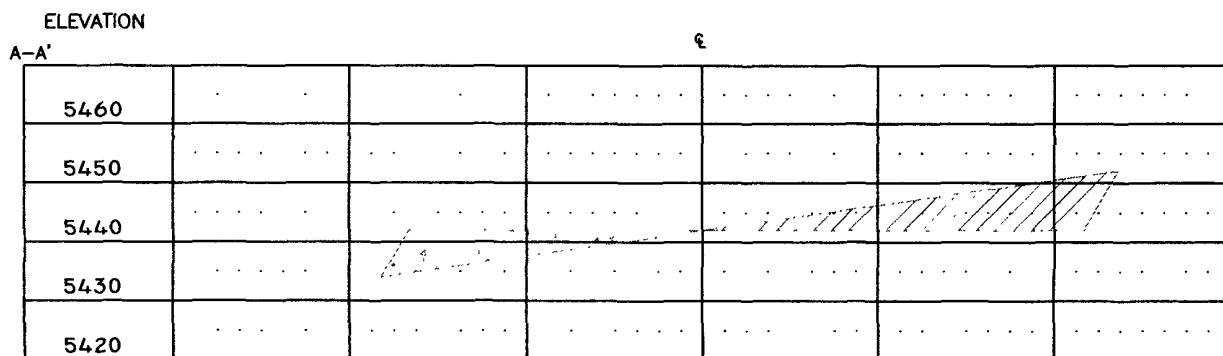


NOTES

- 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: 10/10/07	REV. DATE:	APP. BY: M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 10/24/07	FILE NAME: 7936L01
		
P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408		

BURLINGTON RESOURCES OIL & GAS COMPANY LP.
HAGOOD 19 - 660' FSL & 1882' FEL
SECTION 19, T-29-N, R-13-W, N.M.P.M., SAN JUAN COUNTY, N.M.
GROUND ELEVATION: 5442 - DATE: OCTOBER 10, 2007



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

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: 10/10/07

REV. DATE:

APP. BY M.W.L.

DRAWN BY: H.S.

DATE DRAWN: 10/24/07

FILE NAME: 7936C01



P.O. BOX 3651
FARMINGTON, NM 87499
OFFICE: (505)334-0408