

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 03 2008

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-078580 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe RCVD JUN 24 '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 Howell A 9. Well Number #1B	
4. Location of Well Unit J (NWSE), 1770' FSL & 2020' FEL Latitude 36.823183 N Longitude 107.696352 W	10. Field, Pool, Wildcat Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 8, T30N, R8W API # 30-045-34737	
14. Distance in Miles from Nearest Town 22 mile/Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1770'		
16. Acres in Lease 1361.080	17. Acres Assigned to Well MV - 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1045' from Howell 1-1A		
19. Proposed Depth 5727' This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6405' GL	22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Sasha Spangler</u> Sasha Spangler (Regulatory Technician)	<u>6-2-08</u> Date	

PERMIT NO.

APPROVAL DATE

APPROVED BY [Signature]

TITLE AFM

DATE 6/23/08

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

HOLD C-144 FOR NSL

NMOCD

JUN 30 2008

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. 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
Bureau of Land Management
Farmington Field OfficeRECEIVED
N 03 2008

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 7 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34737	² Pool Code 72319	³ Pool Name BLANCO MESAVERDE
⁴ Property Code 7119	⁵ Property Name HOWELL A	⁶ Well Number 1B
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY LP	⁹ Elevation 6405

¹⁰ SURFACE LOCATION

UL or lot no. J	Section 8	Township 30-N	Range 8-W	Lot Idn	Feet from the 1770	North/South line SOUTH	Feet from the 2020	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 320	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 	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. Signature: <i>Crystal Walker</i> 3/10/08 Printed Name: Crystal Walker Title and E-mail Address: Regulatory Technician Date: March 10th, 2008
	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: 1/21/08 Signature and Seal of Professional Surveyor:

COMPANY

BURLINGTON RESOURCES

Charge Code

WAN,RFE.PDO7.KC

WELL NAME

HOWELL A # 1 B

DATE

3/6/2008

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES

SEC

TNSHP

RANGE

LATITUDE

LONGITUDE

J 8

30 N

8 W

36.823183 N

107.696352 W

COUNTY

SAN JUAN

RECTIFIER

30/12

X

SOLARGROUND BED

X

240 V METER POLE480 V METER POLED C CABLES

8

200'

A C CABLES

8

1400'

PRIMARY POWERDISTANCE TO POWERUNDERGROUNDPUMPJACKWATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
# 8	200'			
# 8	1400'			
			FNM	
			1600'	

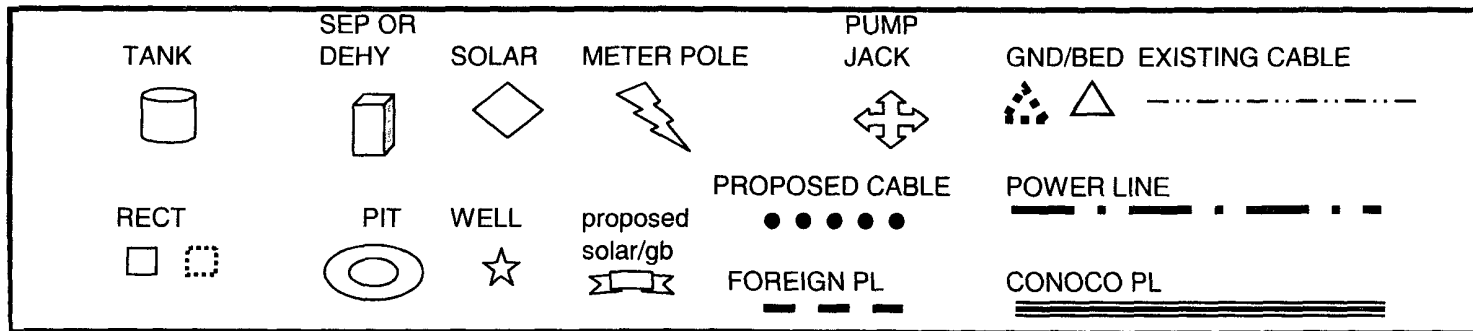
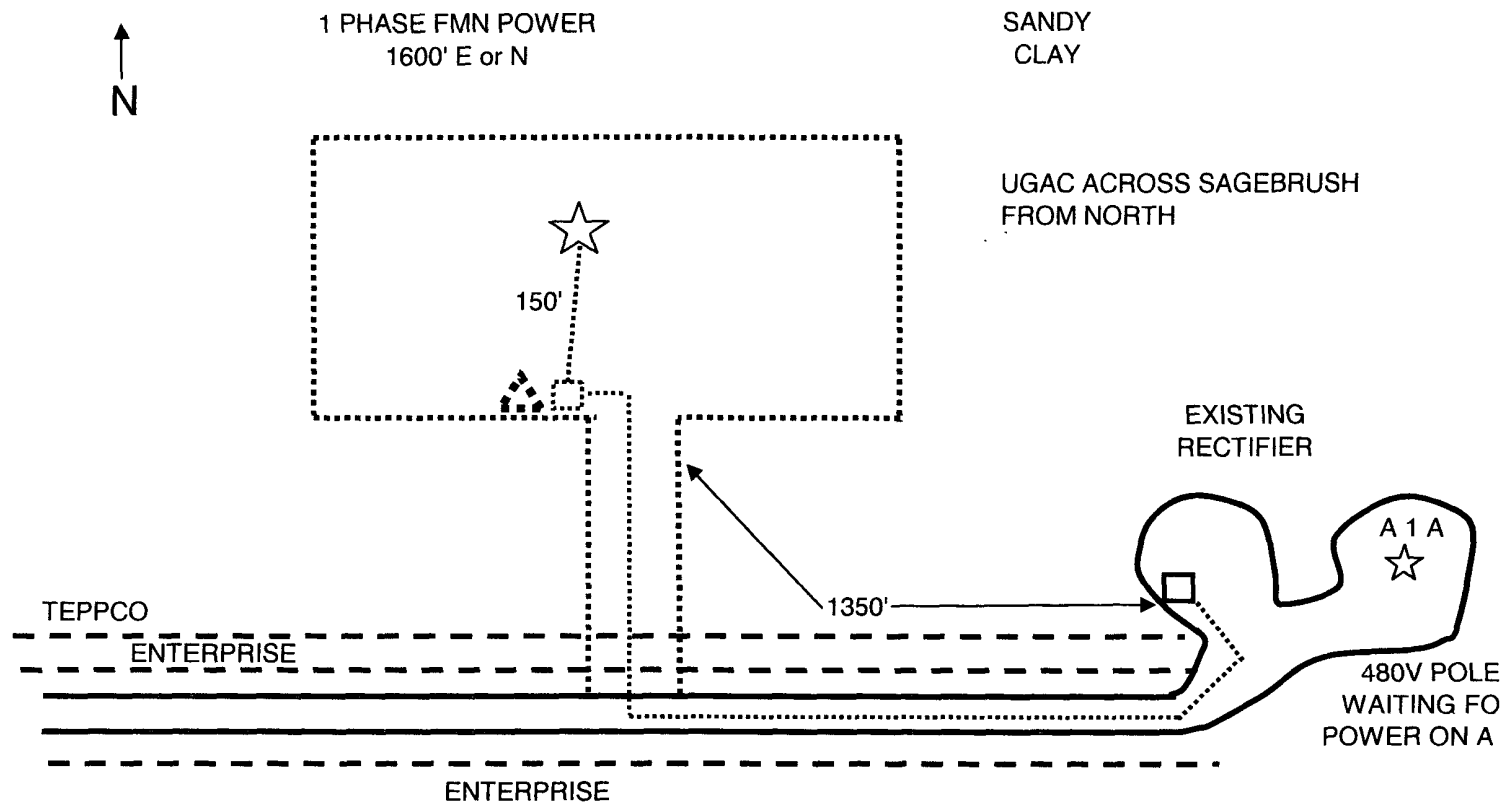
COMMENTS

INSTALL LOAD CENTER AT EXISTING RECTIFIER ON A 1 A - PLOW 1600 FT

UGAC TO LOC - INSTALL RECTIFIER SYSTEM

UGAC IS FROM THE NORTH ACROSS SAGEBRUSH AREA

WELL NAME	HOWELL A # 1 B
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HOWELL A 1B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7436		AFE \$: 498,304.71	
Field Name: hBR_SAN JUAN		Rig: H&P Rig 282		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface Datum Code: NAD 27

Latitude: 36.823178	Longitude: -107.695738	X:	Y:	Section: 08	Range: 008W
Footage X: 2020 FEL	Footage Y: 1770 FSL	Elevation: 6405 (FT)	Township: 030N		
Tolerance:					

Location Type: Restricted Start Date (Est.): 1/1/2008 Completion Date: Date In Operation:

Formation Data: Assume KB = 6417 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6217	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cu-ft. Circulate cement to surface.
OJO ALAMO	1982	4435	☐			
KIRTLAND	2147	4270	☐			
FRUITLAND	2819	3598	☐			Possible Gas
PICTURED CLIFFS	3194	3223	☐			
LEWIS	3376	3041	☐			
Intermediate Casing	3476	2941	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 783 cu-ft. Circulate cement to surface.
HUERFANITO BENTONITE	3893	2524	☐			
CHACRA	4224	2193	☐			
MASSIVE CLIFF HOUSE	4923	1494	☐	250		Gas
MENEFEE	5029	1388	☐			
MASSIVE POINT LOOKOUT	5400	1017	☐			
Total Depth	5727	690	☐			6-1/4" hole, 4-1/2" 10.5 ppf, J-55, STC casing. Cement w/ 312 cu-ft. Circulated Cmt to surface.

Reference Wells:

Reference Type	Well Name	Comments
		100 ft inside 7" casing

Logging Program:

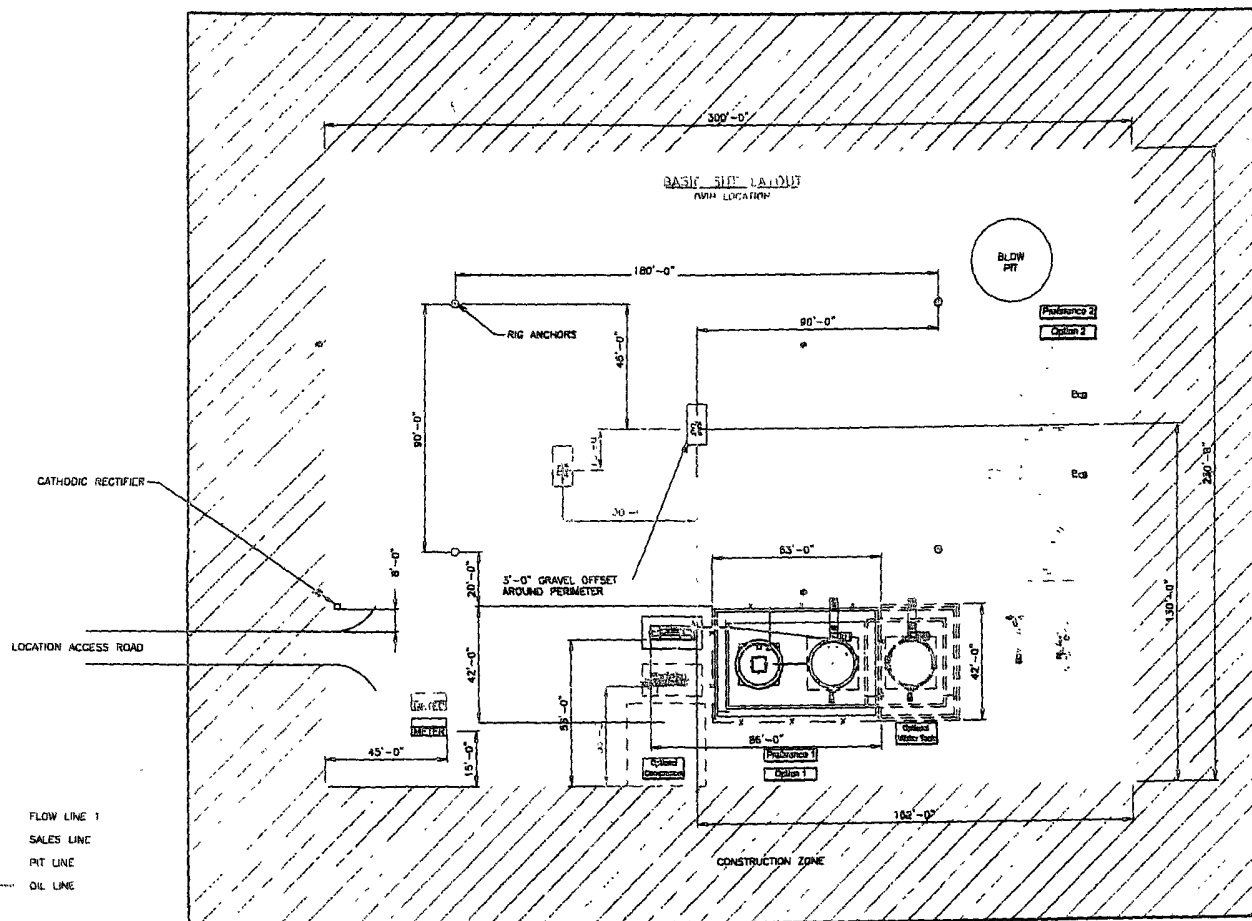
Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

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

Est bottom perf ~20' above the est TD.

Additional Information:

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

SHEET 1 OF 3

										ENGINEERING REVIEW		REFERENCE DRAWINGS		CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT			
										DESIGNED BY	REVIEWED	DATE	ECL	DESCRIPTION			
										PROCESS							
										MECHANICAL							
										ELECTRICAL							
										INSTRUMENTATION							
										1 & C							
										CIVIL/STRUCTURAL							
										SAN JUAN BUSINESS UNIT					CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
															CLIENT NO.	CLIENT APPR.	APPR. DATE
															DESIGN NO.	DESIGN VER.	ISSUANCE DATE (M/D/Y)
															HP3PHASE--REV1		
															SHEET NO. 1 OF 5		

HOWELL A 1B

1770' FSL, 2020' FEL

SECTION 8, T-30-N, R-8-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

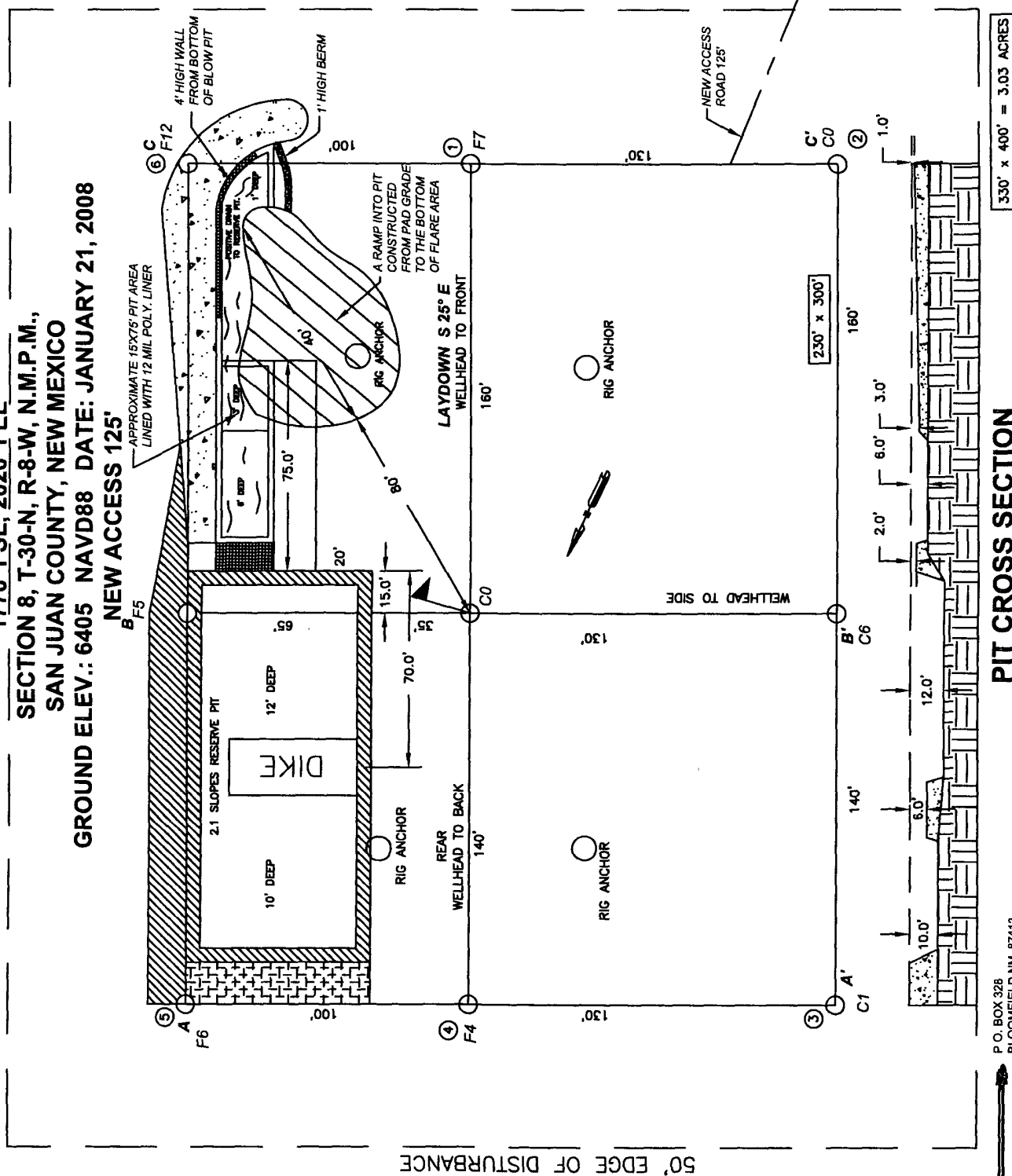
GROUND ELEV.: 6405 NAVD88 DATE: JANUARY 21, 2008

NEW ACCESS 125'

APPROXIMATE 15'X75' PIT AREA
LINED WITH 12 MIL POLY. LINER

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
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

NOTES:



PIT CROSS SECTION

NAD 83 LAT.: 36.823183°N / LONG.: 107.696352°W

P.O. BOX 328
BLOOMFIELD, NM, 87413
PHONE: (505) 325-7707

CHENAULT CONSULTING INC.

cc1

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

HOWELL A 1B

1770' FSL, 2020' FEL

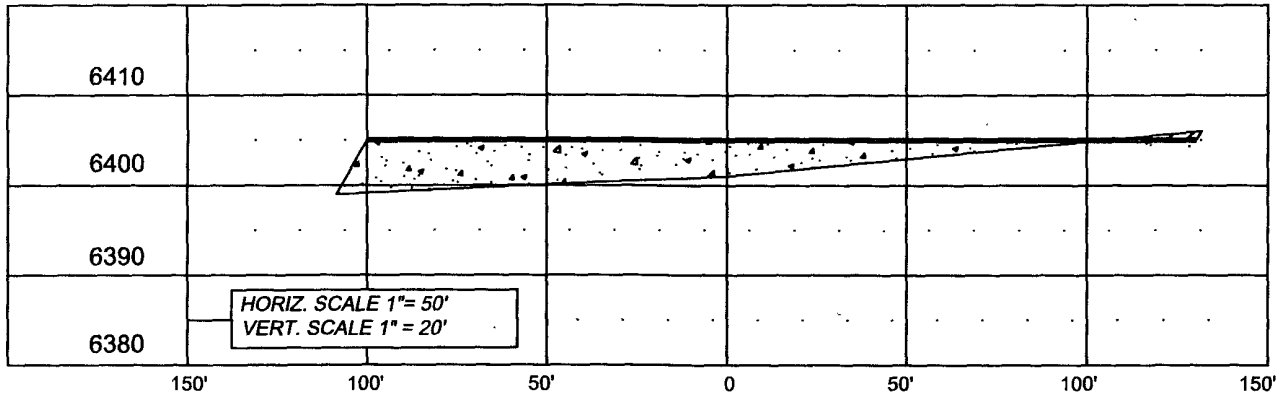
SECTION 8, T-30-N, R-8-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6405 NAVD88

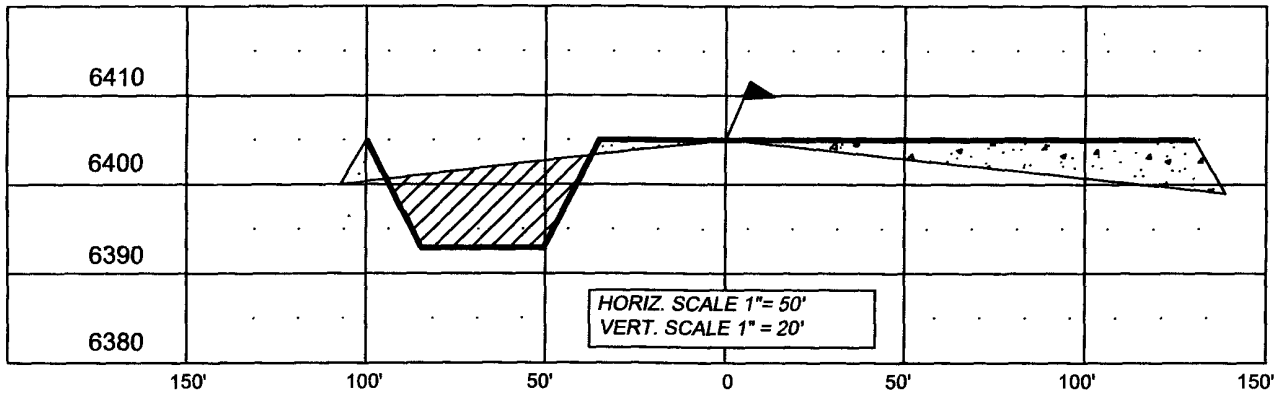
A - A'

C/L



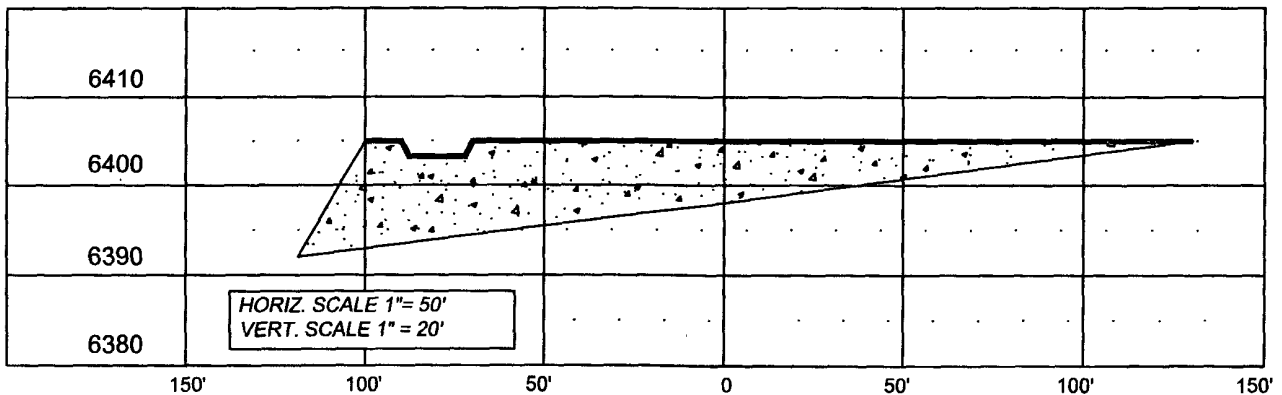
B - B'

C/L



C - C'

C/L



NOTE: CCI IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD PRIOR TO CONSTRUCTION.

REVISIONS

NO.	DESCRIPTION	REVISED BY	DATE
1	ISSUED FOR REVIEW	L.H	11/26/07
2	WELL MOVE	TJR	1/21/08

CCI

P.O. BOX 328
BLOOMFIELD, NM, 87413
PHONE: (505)325-7707

CHENAULT CONSULTING INC.

BURLINGTON RESOURCES OIL AND GAS COMPANY LP

**HOWELL A 1B
1770' FSL, 2020' FEL
SECTION 8, T-30-N, R-8-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.823183°N LONG.: 107.696352° W
ELEV.: 6405 NAVD88
NEW ACCESS 125'**

DRIVING DIRECTIONS TO BROG HOWELL A 1B.

FROM INTERSECTION OF HWY 550 & HWY 598 (CONOCO GAS STATION):

- GO: 1.1 MILES EAST ON HWY. 550, TURN RIGHT ON HWY. 173.
- GO: EAST ON HWY. 173 15.4 MILES, TURN LEFT ON COUNTY ROAD 4600.
- GO: 4.3 MILES NORTH ON C.R. 4600 TO TOP OF PUMP MESA, TURN RIGHT.
- GO: 0.6 MILES SOUTHEAST, TURN LEFT AT FORK IN ROAD.
- GO: 0.2 MILES EAST TO BEGINNING OF 125 FEET NEW ACCESS ROAD ON RIGHT (NORTH) SIDE OF THE ROAD.