

RECEIVED

JUN 06 2008

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bureau of Land Management
Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	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.	5. Lease Number NMSF-079266 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 Vaughn 9. Well Number #8P
4. Location of Well Surf: Unit P (SESE), 1116' FSL & 1151' FEL BH: 2175' FSL & 1875' FEL (NWSE) J Surf: Latitude 36.45352° N Longitude 107.43211° W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) p Sec. 26, T26N, R6W API # 30-039-30544
14. Distance in Miles from Nearest Town 41.5 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1116'		
16. Acres in Lease 2,560.00 Acres	17. Acres Assigned to Well MV/DK 320.00 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 76' from Vaughn #8E - DK		
19. Proposed Depth 7483'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6649' GR	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	<u>6/6/08</u> Date	

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 6/23/08

Archaeological Report attached
Threatened and Endangered Species Report attached

**NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT**

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

Hold C104

for Directional Survey
and "As Drilled" plat

NMOCD

JUN 30 2008

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

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

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, NM 87505

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30544	² Pool Code 72319/71599	³ Pool Name BLANCO MESA VERDE/BASIN DAKOTA
⁴ Property Code 7623	⁵ Property Name VAUGHN	⁶ Well Number 8P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6649'

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
P	26	26N	6W		1116'	SOUTH	1151'	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no. J	Section 26	Township 26N	Range 6W	Lot Idn	Feet from the 2175'	North/South line SOUTH	Feet from the 1875'	East/West line EAST	County RIO ARRIBA
¹³ Dedicated Acres 320.00 Acres - (E/2)			¹⁵ Joint or Infill		¹⁴ Consolidation Code		¹⁶ 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

18

LEASE # USA SF-079266

BOTTOM HOLE
 LAT. 36.45842° N (NAD83)
 LONG. 107.43458° W (NAD83)
 LAT. 36°27.38456' N (NAD27)
 LONG. 107°26.03861' W (NAD27)

WELL FLAG
 LAT. 36.45352° N (NAD83)
 LONG. 107.43211° W (NAD83)
 LAT. 36°27.21056' N (NAD27)
 LONG. 107°25.89041' W (NAD27)

DIRECTIONAL DRILL
 N 34°59'19" W
 1279.66'

1875'

2175'

1151'

VAUGHN #8E

2643.30' (R)
 2642.24' (M)

2668.71' (R)
 2667.84' (M)

N 0°08' W
 N 00°12'50" W

S 89°35' W
 S 89°31'37" W

FND 3.25" BC
 BLM 1957

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 or a compulsory pooling order heretofore entered by the division.

Signature Crystal Walker Date 4/2/08

Crystal Walker 4-2-08
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 is true and correct to the best of my belief.

MARCH 12, 2008

Date of Survey

Signature and Seal of Professional Surveyor

Signature and Seal of Professional Surveyor
Paul R. Russell



DAVID RUSSELL

Certificate Number

10201

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PDO7.BJ		
VAUGHN # 8 P	DATE	4/3/2008
WELL NAME		
WELL NAME		

COORDINATES	SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
	P 26	26 N	6 W	36d27.21056 N	107d25.89041 W
COUNTY	RIO ARRIBA				

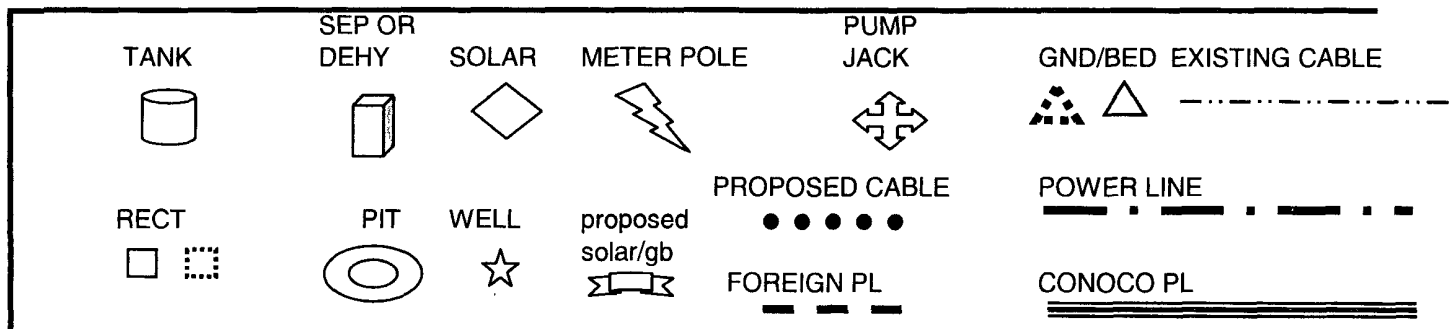
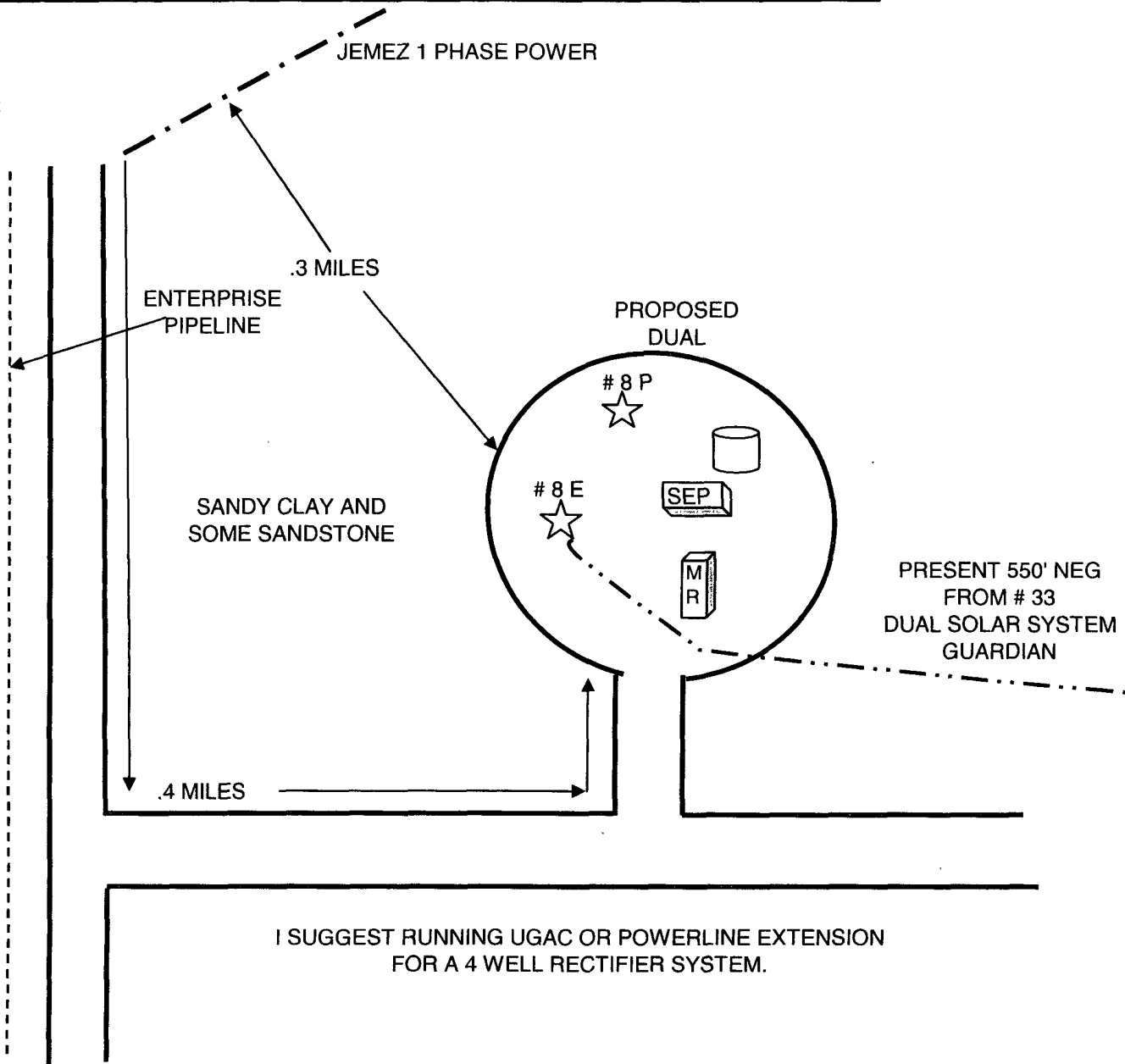
RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
(12/6)	X			
	X			
# 8				
			JEMEZ	
			.3 MILES	

COMMENTS	I SUGGEST A POWER LINE EXTENSION OR UGAC TO LOC FOR OPERATING
	A FOUR WELL SYSTEM - OTHERWISE INSTALL DUAL SOLAR SYSTEM AND
	ABANDON 550 FT NEG FROM THE # 33 TO # 8E AND TIE THE # 8E INTO
	NED DUAL SYSTEM

WELL NAME VAUGHN # 8 P

N



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

VAUGHN 8P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7205				AFE \$:	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Riley, Brook		Phone: +1 505-324-6108		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
<i>Directional</i>							
Location: Surface Datum Code: NAD 27							
Latitude: 36.453509	Longitude: -107.431507	X:	Y:	Section: 26		Range: 006W	
Footage X: 1151 FEL	Footage Y: 1116 FSL	Elevation: 6649	(FT)	Township: 026N			
Tolerance:							
<i>Directional</i>							
Location: Directional Datum Code: NAD 27							
Latitude: 36.456409	Longitude: -107.433977	X:	Y:	Section: 26		Range: 006W	
Footage X: 1875 FEL	Footage Y: 2175 FSL	Elevation:	(FT)	Township: 026N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6664		Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6449	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, STC casing. Cement with 170 cubic ft. Circulate cement to surface.	
OJO ALAMO	2272	4392	☐				
KIRTLAND	2504	4160	☐				
FRUITLAND	2713	3951	☐			Possible Gas	
PICTURED CLIFFS	2969	3695	☐				
LEWIS	3096	3568	☐				
HUERFANITO BENTONITE	3369	3295	☐				
CHACRA	3817	2847	☐				
MASSIVE CLIFF HOUSE	4594	2070	☐	700			
MENEFEE	4624	2040	☐				
Intermediate Casing	4774	1890	☐			8-3/4" hole. 7", 23 ppf, J-55, LTC casing. Cement with 1120 cubic ft. Circulate cement to surface.	
MASSIVE POINT LOOKOUT	5162	1502	☐			GAS	
MANCOS	5499	1165	☐				
UPPER GALLUP	6234	430	☐				
GREENHORN	7086	-422	☐				
GRANEROS	7143	-479	☐				
TWO WELLS	7175	-511	☐	1300		Gas	
UPPER CUBERO	7302	-638	☐				
LOWER CUBERO	7336	-672	☐				
OAK CANYON	7365	-701	☐				
ENCINAL	7412	-748	☐				
BURRO CANYON	7441	-777	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

VAUGHN 8P

DEVELOPMENT

MORRISON	7483	-819	☐	TD at top of Morrison - Burro looks wet on offset 8E - mudlogger can look for gas shows
TOTAL DEPTH DK	7483	-819	☐	6-1/4" hole. 4-1/2", 11.6 ppf, J-55/L-80, LTC casing. Cement with 373 cubic ft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

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

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

GR/CBL. Est bottom perf is ~15' above TD. Mudlog from 100' above Greenhorn to TD - loggers will call TD.

Additional Information:

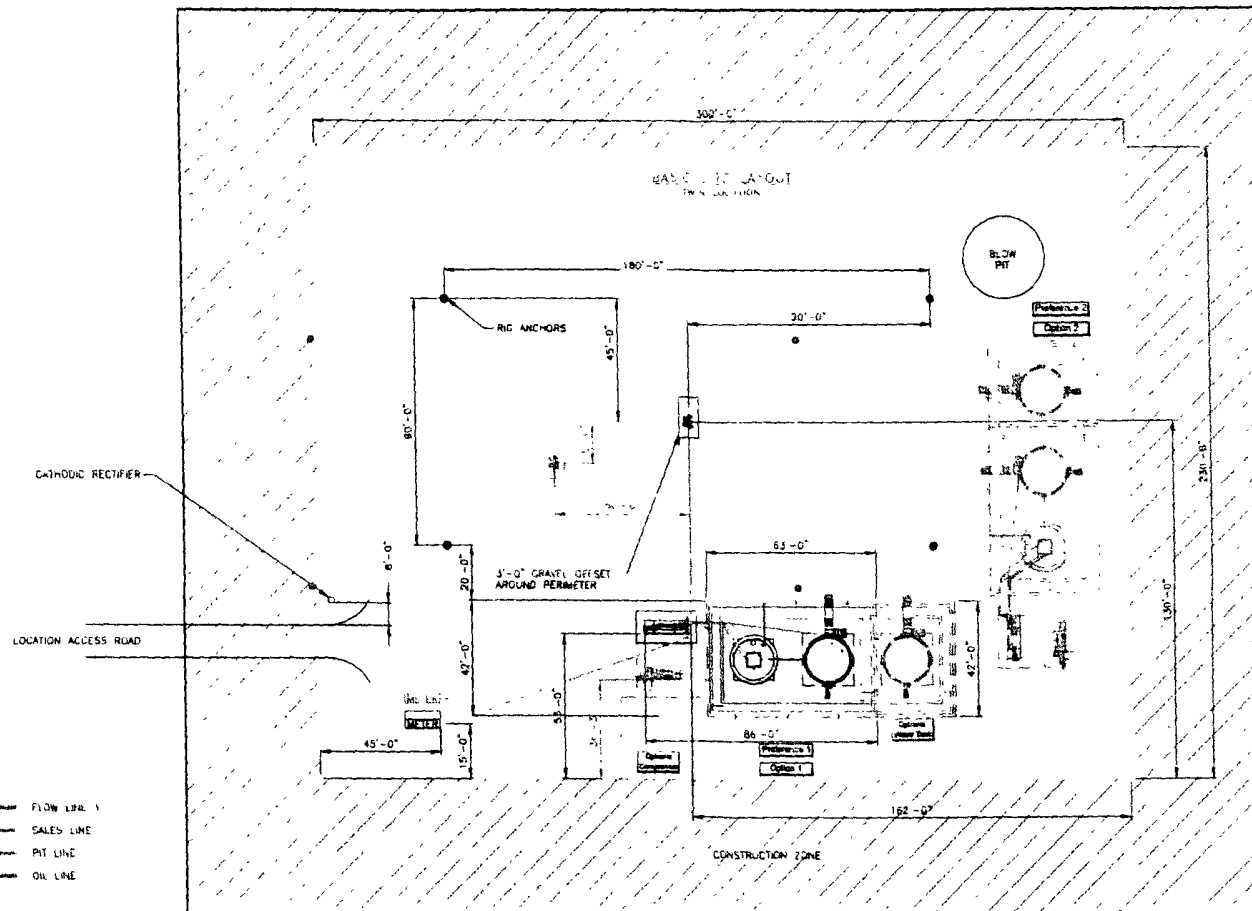
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Vaughn #8P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6664.0ft (Generic Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6664.0ft (Generic Rig)
Site:	Other Named Wells	North Reference:	True
Well:	Vaughn #8P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	Planned		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,355.6	2,272.0	Ojo Alamo		0.00		
2,600.5	2,504.0	Kirtland		0.00		
2,821.0	2,713.0	Fruitland		0.00		
3,091.2	2,969.0	Pictured Cliffs		0.00		
3,225.3	3,096.0	Lewis		0.00		
3,513.4	3,369.0	Huerf Bent		0.00		
3,986.2	3,817.0	Chacra		0.00		
4,793.1	4,594.0	Massive Cliffhouse		0.00		
4,823.2	4,624.0	Menefee		0.00		
5,361.4	5,162.0	Pt Lookout		0.00		
5,698.4	5,499.0	Mancos Shale		0.00		
6,433.4	6,234.0	Gallup		0.00		
7,285.4	7,086.0	Greenhorn		0.00		
7,342.4	7,143.0	Graneros		0.00		
7,374.4	7,175.0	Two Wells		0.00		
7,501.4	7,302.0	Upper Cubero		0.00		
7,535.4	7,336.0	Lower Cubero		0.00		
7,564.4	7,365.0	Oak Canyon		0.00		
7,611.4	7,412.0	Encinal		0.00		
7,640.4	7,441.0	Burro Canyon		0.00		
7,682.4	7,483.0	Morrison		0.00		



FLOW LINE
 SALES LINE
 PIT LINE
 OIL LINE

SEE SHEET 1-B FOR CONCRETE DETAILS
 ALL UNDERGROUND LINES 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			
										DESIGN NO.	REVIEWED	DATE	NO.	DESCRIPTION						
										PROCESS								CLIENT NO.	CLIENT APPRO.	APPRO. DATE
										MECHANICAL								SCALE NAME	DATE	REVISION
										Piping								DATE		
										ELECTRICAL								DATE		
										STRUCTURAL								DATE		
										CONSTRUCTION								DATE		
										PROJECT								DATE		
DESIGN NO.										DATE	REV	CHK'D	ENC	OSC	PM	SAN JUAN BUSINESS UNIT				

H:\projects\San Juan Business Unit\San Juan Business Unit Site Layout.dwg 10/28/2007 10:53 AM

LATITUDE: 36.45352°N
 LONGITUDE: 107.43211°W
 DATUM: NAD 83

SLOPES TO BE CONSTRUCTED TO
 MATCH THE ORIGINAL CONTOURS
 AS CLOSE AS POSSIBLE.

BURLINGTON RESOURCES O&G CO LP

VAUGHN #8P

1116' FSL & 1151' FEL

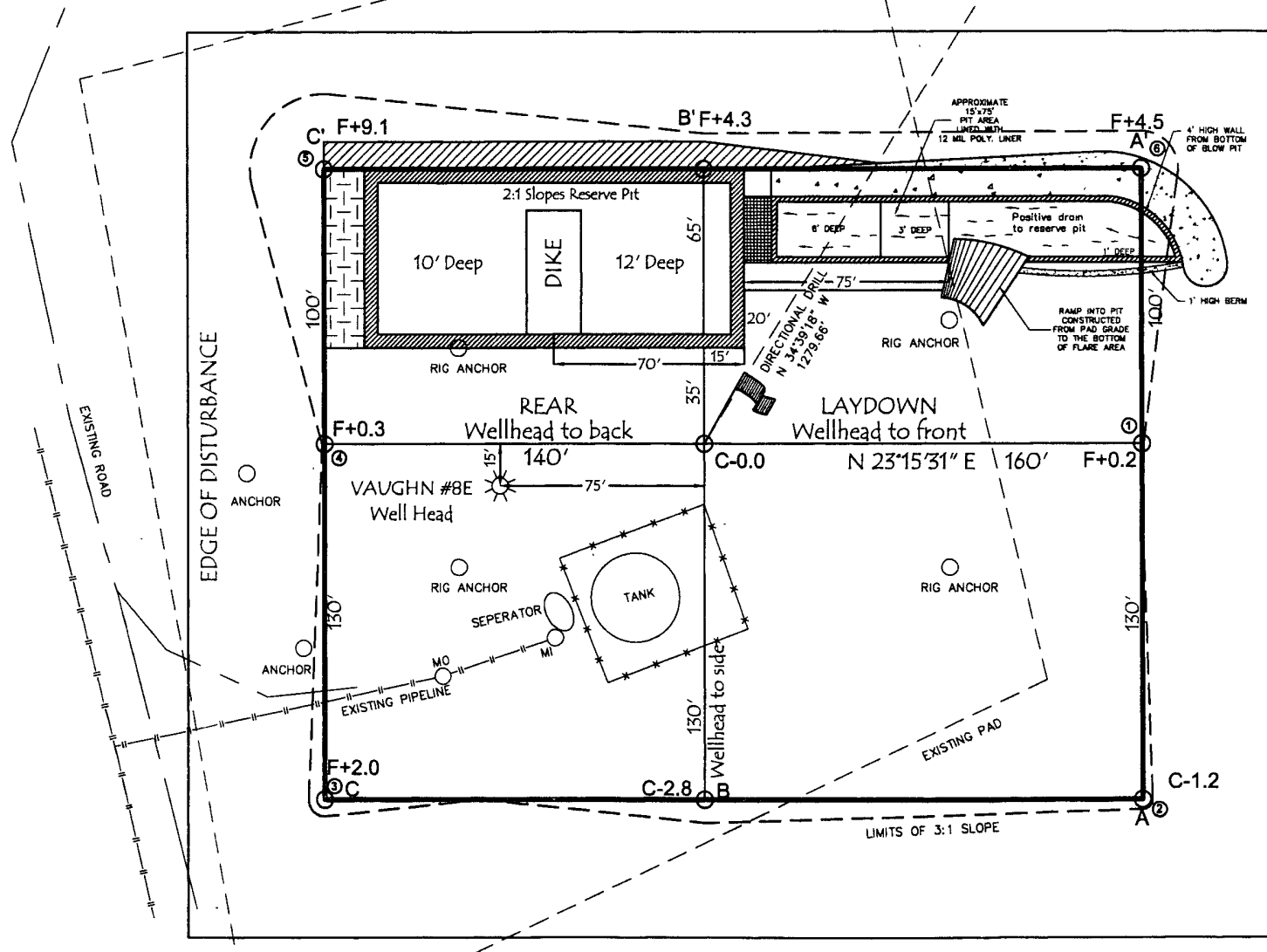
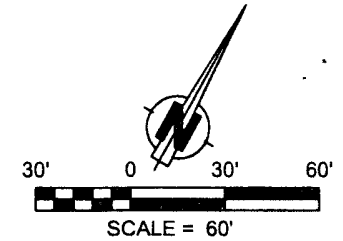
LOCATED IN THE SW 1/4 SE 1/4 OF SECTION 26,

T26N, R6W, N.M.P.M.,

RIO ARriba COUNTY, NEW MEXICO

GROUND ELEVATION: 6649', NAVD 88

FINISHED PAD ELEVATION: 6648.8', NAVD 88



330' x 400' = 3.03 ACRES OF DISTURBANCE
 SCALE: 1" = 60'
 JOB No.: COPC080_REV1
 DATE: 03/23/08

NOTE:

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. 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, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
 TO CONSTRUCTION.

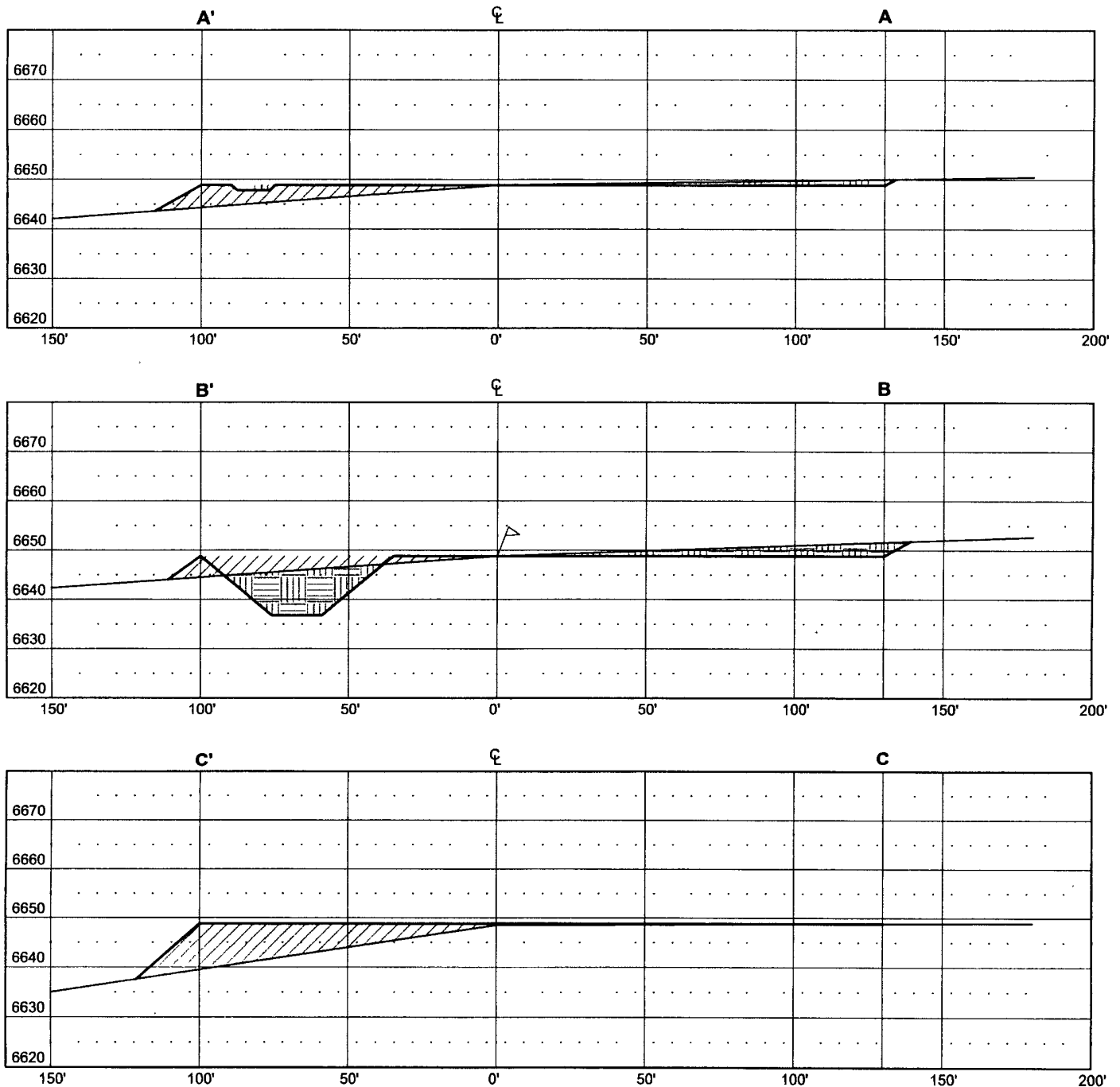


Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

LATITUDE: 36.45352°N
LONGITUDE: 107.43211°W
DATUM: NAD 83

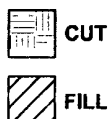
BURLINGTON RESOURCES O&G CO LP

VAUGHN #8P
1116' FSL & 1151' FEL
LOCATED IN THE SW/4 SE/4 OF SECTION 26,
T26N, R6W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6649', NAVD 88
FINISHED PAD ELEVATION: 6648.8', NAVD 88



THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30'
HORZ. SCALE: 1" = 50'
JOB No.: COPC080_REV1
DATE: 03/23/08



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637

BURLINGTON RESOURCES O&G CO LP

VAUGHN #8P

1116' FSL & 1151' FEL

LOCATED IN THE SW 1/4 SE/4 OF SECTION 26,
T26N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLANCO, NM POST OFFICE, TRAVEL EAST ON HIGHWAY 64, 1.3 MILES TO COUNTY ROAD #4450.
- 2) TURN RIGHT AND TRAVEL 3.6 MILES TO A "Y" INTERSECTION.
- 3) TURN RIGHT AND TRAVEL 25.4 MILES DOWN LARGO CANYON.
- 4) TURN RIGHT AND TRAVEL 0.3 MILES TO A "Y" INTERSECTION.
- 5) TURN RIGHT AND TRAVEL 1.1 MILES TO A 4-WAY INTERSECTION.
- 6) TURN RIGHT AND TRAVEL 1.4 MILES TO A "T" INTERSECTION.
- 7) TURN LEFT AND TRAVEL 1.0 MILES TO A "T" INTERSECTION.
- 8) TURN RIGHT AND TRAVEL 2.5 MILES TO A "Y" INTERSECTION.
- 9) TURN RIGHT ON J-63 AND TRAVEL 2.0 MILES TO A "Y" INTERSECTION.
- 10) TURN RIGHT AND TRAVEL 2.8 MILES.
- 11) TURN LEFT, GO 0.1 MILES.
- 12) TURN LEFT ONTO TWIN LOCATION.

WELL FLAG LOCATED AT LAT. 36.45352° N, LONG. 107.43211° W, (NAD83)

