

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 14 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 SF-078097 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	7. Unit Agreement Name RCVD JUN 6 '08 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 Heaton 9. Well Number #101	
4. Location of Well Unit B (NWNE), 1157' FNL & 1421' FEL, Latitude 36.859586° N Longitude 107.992403° W	10. Field, Pool, Wildcat Basin Fruitland Coal 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 33, T31N, R11W API # 30-045-34708	
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 1157'	17. Acres Assigned to Well 315.61 (N/2)	
16. Acres in Lease 2,475.61		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 380' from Heaton LS 6 (PC/MV)		
19. Proposed Depth 2567'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5835' GR	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>5/13/08</u>	

PERMIT NO.

APPROVED BY

APPROVAL DATE

TITLE

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

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 ES-0048 and ES-0085

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

JUN 16 2008

NMOCD 86

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., 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

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

¹ API Number 30-045- <u>34708</u>	² Pool Code 71629	³ Pool Name BASIN FRUITLAND COAL
⁴ Property Code 7105 <u>37214</u> <i>(OK per Crystal 6/16/08)</i>	⁵ Property Name HEATON	⁶ Well Number 101
⁷ OCRD No. 217817	⁸ Operator Name CONOCOPHILLIPS	⁹ Elevation 5835

¹⁰ Surface Location

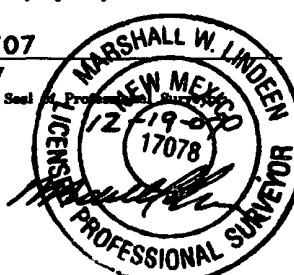
UL or lot no. B	Section 33	Township 31 N	Range 11 W	Lot Idn	Feet from the 1157	North/South line NORTH	Feet from the 1421	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. B	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 315.61 (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°21'51" E 2652.55' USA SF-078097	2631.84' EULA MARCOTTE ET AL NAD 83 LAT: 36.859586° N LONG: 107.992403° W	N 89°09'42" E LOT 2 1157' NAD 83 LAT: 36° 51.5750' N LONG: 107° 59.5068' W USA SF-078097	2488.12' LOT 1 1421' 5329.78'	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 <u>Sasha Spangler</u> Date <u>2-12-08</u> Printed Name <u>Sasha Spangler</u>
2627.88' N 0°12'53" W N 89°34'34" W	2609.99'	N 89°31'46" W	2611.59' S 1°20'06" E	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. 12/06/07 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number

Office

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

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- 34708

5. Indicate Type of Lease

STATE ☒FEE ☐

6. State Oil & Gas Lease No.

SF-078097

7. Lease Name or Unit Agreement Name

Heaton

8. Well Number

#101

9. OGRID Number

217817

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

CONOCOPHILLIPS

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter B

: 1157

feet from the

North

line and

1421

feet from the

East

line

Section 33

Township 31N

Rng 11W

NMPM

County

San Juan

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

5835' 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

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 ☐

OTHER:

New Drill Pit

☒

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:

ConocoPhillips proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on ConocoPhillips' interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in ConocoPhillips' General Plan dated June 2005 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. ConocoPhillips anticipates closing these pits according to the November 1, 2004 Guidelines.

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

Crystal Walker

TITLE

Regulatory Technician

DATE

3/10/2008

Type or print name

Crystal Walker

E-mail address:

crystal.walker@conocophillips.com

Telephone No.

505-326-9837

For State Use Only

APPROVED BY

[Signature]

TITLE

Deputy Oil & Gas Inspector,
District #3

DATE

JUN 16 2008

Conditions of Approval (if any):

COMPANY

Conoco Phillips

CHARGE CODE

WAN:RFE:PD07.JG

WELL NAME

Heaton # 101

DATE

12/14/2007

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES

SEC

33

TNSHP

31 N

RNGE

11W

LATITUDE

36.51575 N

LONGITUDE

107.595068 W

COUNTY

San Juan

RECTIFIER

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
40/16	x			

SOLAR

GROUND BED

	x			
--	---	--	--	--

240 V METER POLE

100 A	x			
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480 V METER POLE

D C CABLES

600 ft # 6	x		need 150 ft # 8	
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A C CABLES

PRIMARY POWER

			Cty Fmt	
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DISTANCE TO POWER

UNDERGROUND

PUMPJACK

WATER PUMP

COMPRESSOR

RTU

SAMS

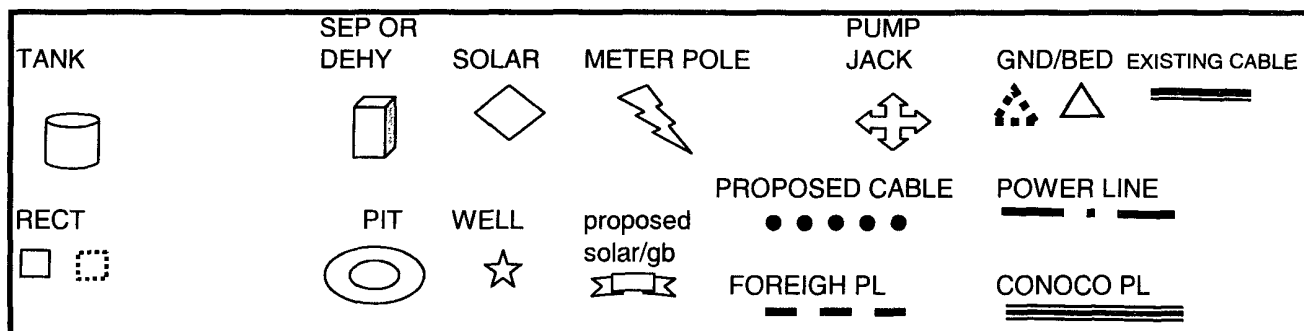
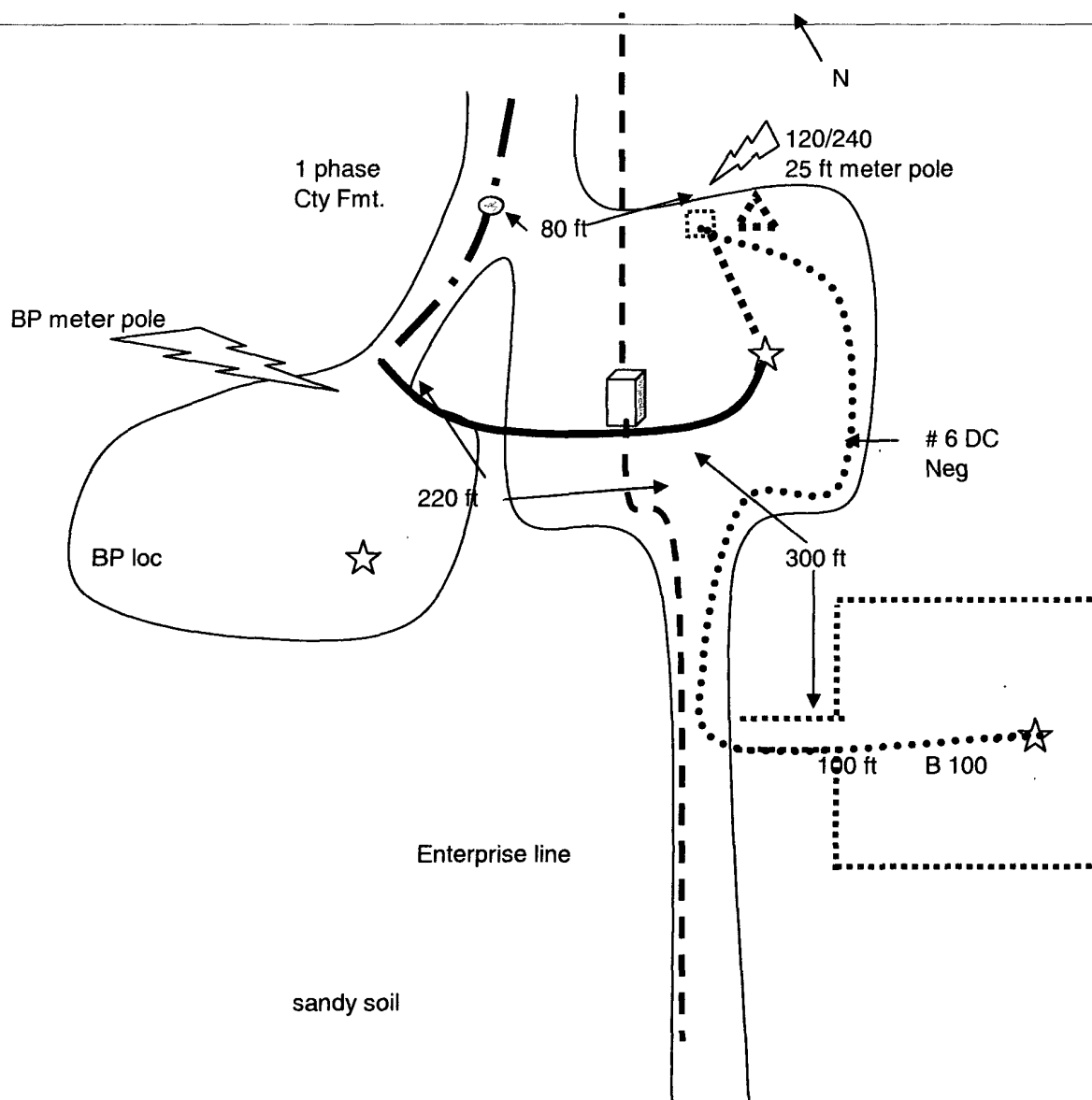
TANKS

COMMENTS

Presently Heaton LS 6 is dual with BP rect. Need to set 2 neg rect on LS 6 and run neg to B100

Need pole set in primary line - City of Farmington

Heaton 101



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HEATON 101

DEVELOPMENT

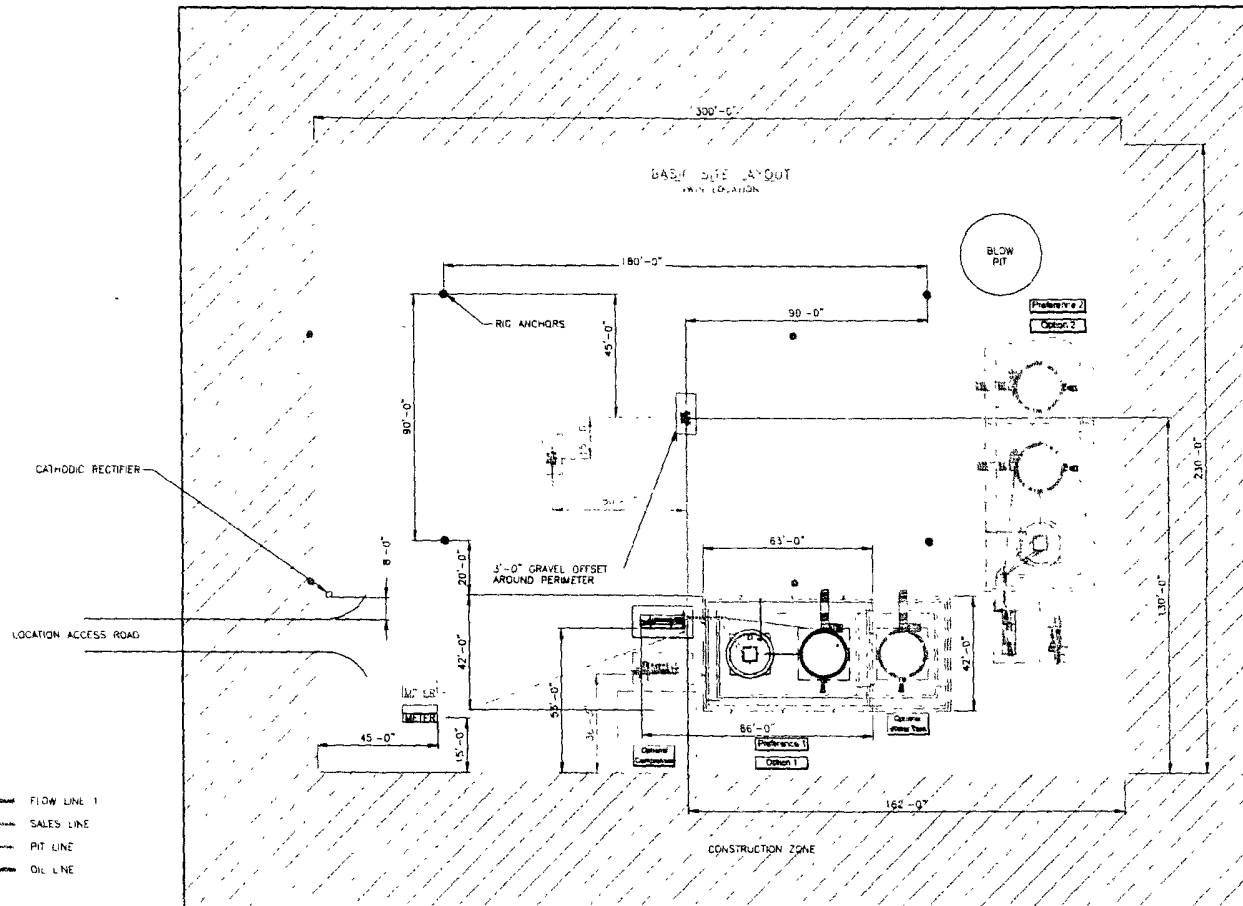
Lease:		AFE #: WAN.CDR.7414		AFE \$: 227,214.65	
Field Name: hBR_SAN JUAN		Rig: Aztec Rig 580		State: NM	County: SAN JUAN
Geologist:		Phone:	Geophysicist:		Phone:
Geoscientist: Clark, Dave D		Phone: 505-326-9762	Prod. Engineer:		Phone:
Res. Engineer:		Phone:	Proj. Field Lead:		Phone:
Primary Objective (Zones):					
Zone	Zone Name				
JCV	BASIN FRUITLAND COAL (GAS)				
Location: Surface Datum Code: NAD 27 Straight Hole					
Latitude: 36.859583	Longitude: -107.991780	X:	Y:	Section: 33	Range: 011W
Footage X: 1421 FEL	Footage Y: 1157 FNL	Elevation: 5835	(FT)	Township: 031N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2009		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 5847 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	120	5727	<input type="checkbox"/>		
OJO ALAMO	932	4915	<input type="checkbox"/>		
KIRTLAND	962	4885	<input type="checkbox"/>		
FRUITLAND	1969	3878	<input type="checkbox"/>	250	Gas
PICTURED CLIFFS	2367	3480	<input type="checkbox"/>		Gas
Total Depth	2567	3280	<input type="checkbox"/>		6-1/4" hole. 4-1/2" 10.5 ppf, J-55, STC casing. Cement with 394 cuft. Circulate cement to surface.
Reference Wells:					
Reference Type	Well Name		Comments		
Production	Heaton #6		NE33-31N-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/Density OH Logs							

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

Comments: .



SEE SHEET 2 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN OF 3'-0" 10"

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCOPhillips		CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT				
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION							
										PROCESS											
										MECHANICAL											
										PUMP											
										ELECTRICAL											
										I & C											
										CIVIL/STRUCTURAL											
										PROJECT											
DESCRIPTION										DATE	BY	CHK'D	ENG	DWG	PRJ	SAN JUAN BUSINESS UNIT			CLIENT NO.	CLIENT NAME	ISSUE DATE
																DRAWN BY			SCALE NONE	CREATION DATE 8/26/07	SHEET NO. 1 OF 5
																			DWG NO.	HP3PHASE-REV1	

\\nrcs\Sys\PRJ\SanJuan\Regulatory\San Juan Location Site Layout.dwg 06/26/2007 - 02:39pm

CONOCOPHILLIPS
HEATON 101 - 1157' FNL & 1421' FEL
SECTION 33, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M.
GROUND ELEVATION: 5835 - DATE: DECEMBER 06, 2007

HEATON 101 - 1157' FNL & 1421' FEL

SECTION 33, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M.

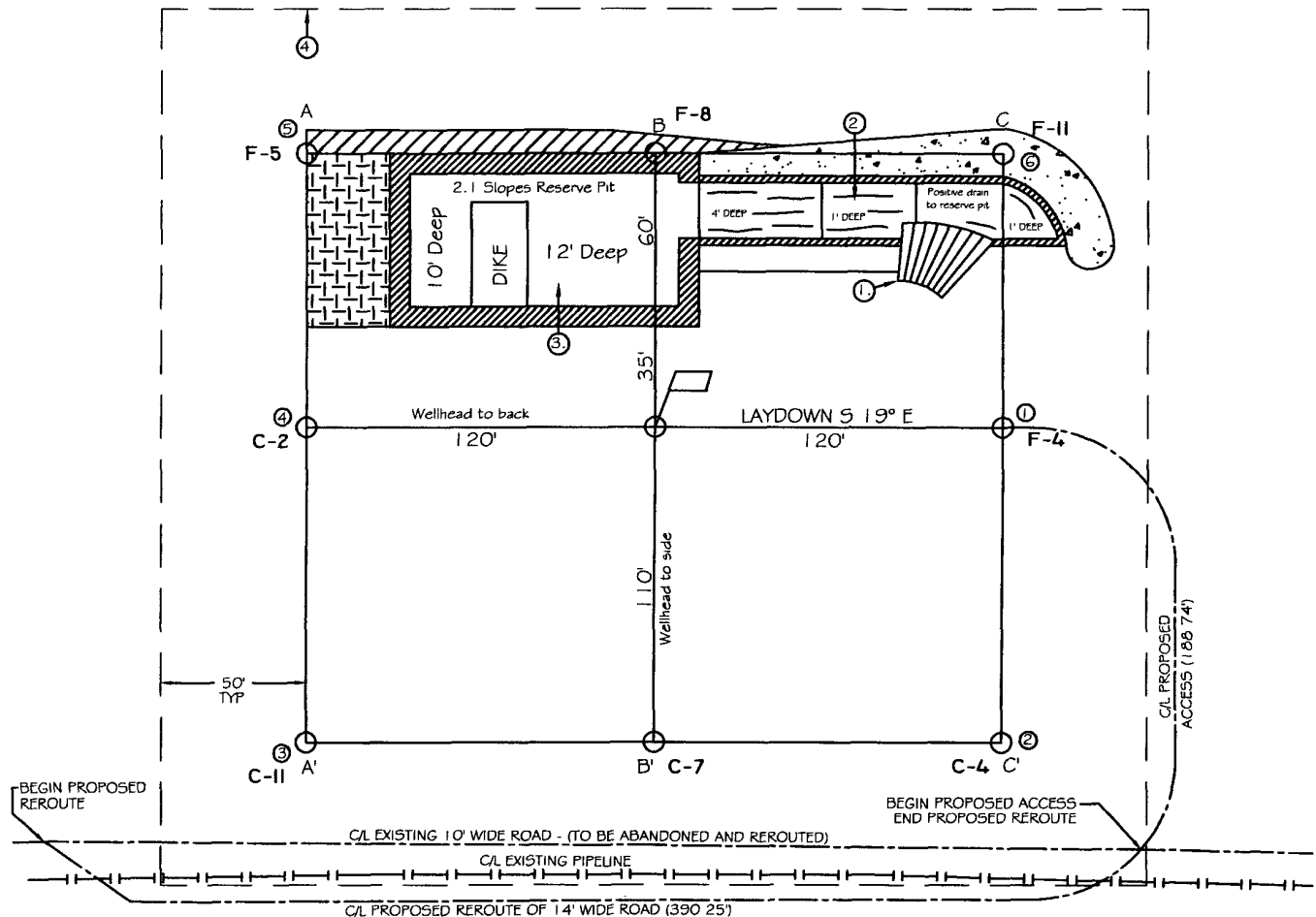
GROUND ELEVATION: 5835 - DATE: DECEMBER 06, 2007

PAD CONST SPECS

- 1 RAMP INTO PIT CONSTRUCTED FROM PAD GRADE
INTO FLARE AREA AT 5% SLOPE
- 2 APPROXIMATE 13x75' PIT AREA LINED WITH 12 MIL POLYUNER
- 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/6' T-POST

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

EDGE OF TEMPORARY CONSTRUCTION



LATITUDE: 36°51.5750' N LONGITUDE: 107°59 5068' 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: 12/06/07

REV. DATE: 01/08/08

APP. BY M.W.L.

DRAWN BY: A.D.

DATE DRAWN: 12/12/07

FILE NAME: 8140L03



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

CONOCOPHILLIPS

HEATON 101 - 1157' FNL & 1421' FEL

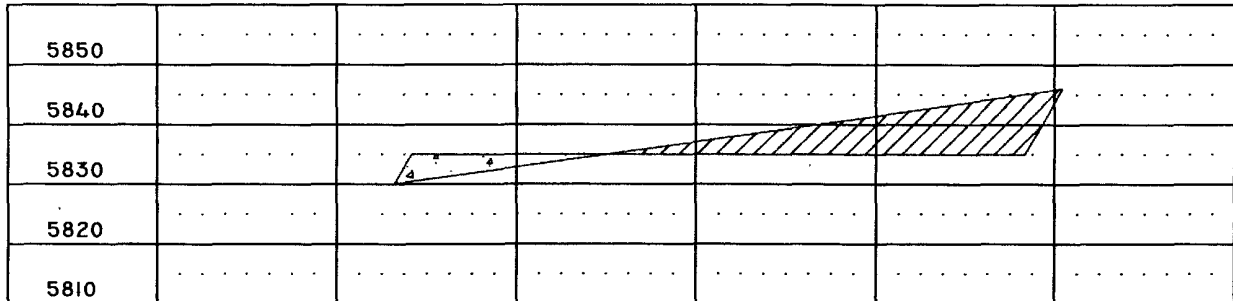
SECTION 33, T-31-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M.

GROUND ELEVATION: 5835 - DATE: DECEMBER 06, 2007

ELEVATION

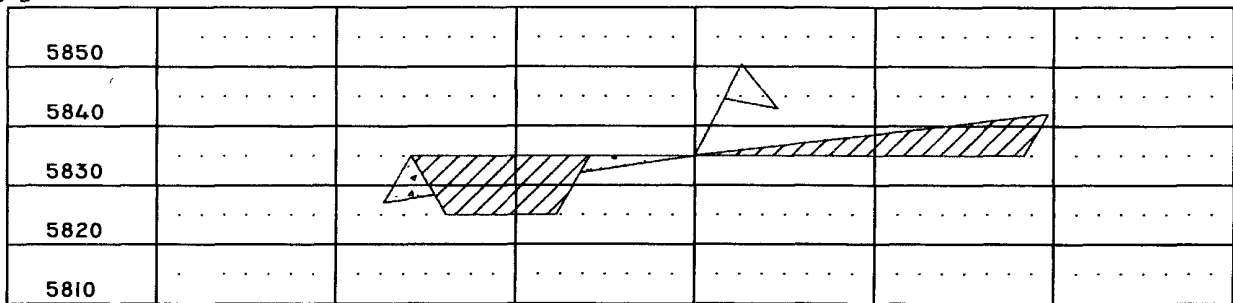
A-A'

ℓ



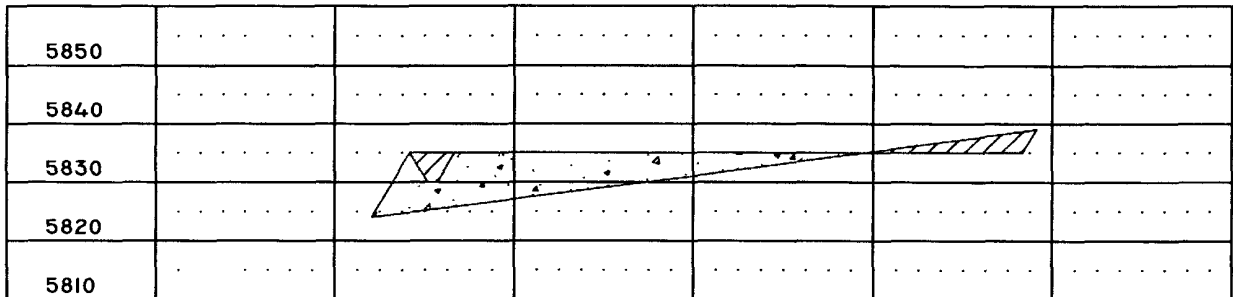
B-B'

ℓ



C-C'

ℓ



1" = 60' - HORIZONTAL

1" = 30' - VERTICAL

NOTES:

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

SURVEYED: 12/06/07

REV. DATE: 12/17/07

APP. BY M.W.L.

DRAWN BY: A.D.

DATE DRAWN: 12/12/07

FILE NAME: 8140C02



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