

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

NOV 23 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Farmington Field Office  
Bureau of Land Management

1a. Type of Work  
DRILL

1b. Type of Well  
GAS

2. Operator  
**BURLINGTON**  
RESOURCES Oil & Gas Company, LP

3. Address & Phone No. of Operator  
PO Box 4289, Farmington, NM 87499  
  
(505) 326-9700

4. Location of Well  
Surface: Unit N (SESW), 1179' FSL & 1776' FWL  
Bottomhole: Unit K (NESW), 2520' FSL & 1780' FWL  
  
Surface: Latitude: 36.73586° N (NAD83)  
Longitude: 107.68288° W  
Bottomhole: Latitude: 36.73955° N (NAD83)  
Longitude: 107.68273° W

5. Lease Number  
SF-078415-A  
Unit Reporting Number

6. If Indian, All. or Tribe

7. Unit Agreement Name  
MV-NMNM 73161  
DK-NMNM 75821

8. Farm or Lease Name  
Lively

9. Well Number  
3N

10. Field, Pool, Wildcat  
Blanco MV/Basin DK

11. Sec., Twn, Rge, Mer. (NMPM)  
Sec. 9, T29N, R8W  
  
API # 30-045-35221

12. County  
San Juan

13. State  
NM

14. Distance in Miles from Nearest Town  
9 Miles from Blanco, NM

15. Distance from Proposed Location to Nearest Property or Lease Line  
1179'

16. Acres in Lease  
1,040

17. Acres Assigned to Well  
320' W/2

18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease  
188' from Lively #3 (DK)

19. Proposed Depth  
7737'

20. Rotary or Cable Tools  
Rotary

21. Elevations (DF, FT, GR, Etc.)  
6504' GL This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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: Brandie Blakley  
Brandie Blakley (Staff Regulatory Tech)

Date: 11-18-10



H<sub>2</sub>S POTENTIAL EXIST

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] TITLE AFM DATE 12/21/10

Archaeological Report attached A gas recovery unit may or may not be used on this location.  
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  
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

1-20-11  
IMOC D [Redacted]

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  
1025 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, NM 87505

State of New Mexico RECEIVED  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised October 12, 2005

OIL CONSERVATION DIVISION

NOV 23 2010

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

1220 South St. Francis Dr.  
Santa Fe, NM 87505 Farmington Field Office  
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-35221		<sup>4</sup> Pool Code 72319/71599		<sup>3</sup> Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
<sup>4</sup> Property Code 18182		<sup>5</sup> Property Name LIVELY			<sup>6</sup> Well Number 3 N
<sup>7</sup> GRID No. 14538		<sup>8</sup> Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP			<sup>9</sup> Elevation 6504'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	9	29N	8W		1179'	SOUTH	1776'	WEST	SAN JUAN

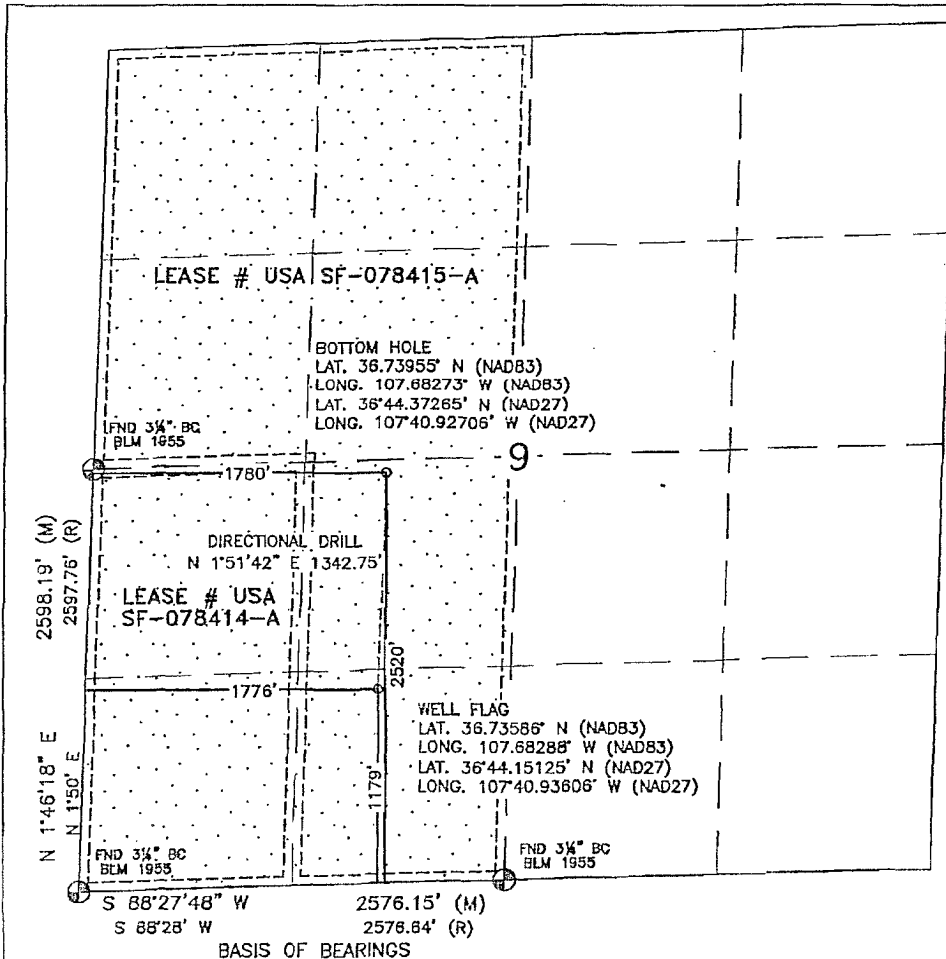
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	9	29N	8W		2520'	SOUTH	1780'	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 320.00 ACRES - W/2	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

18



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 or a compulsory pooling order heretofore entered by the division.

Brandie Blakley 6-4-10  
Signature Date

Brandie Blakley 6-4-2010  
Printed Name

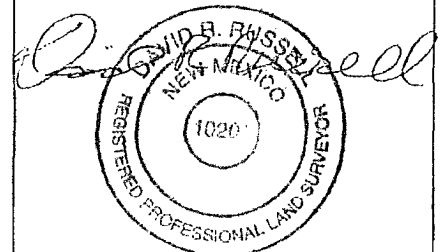
18 SURVEYOR CERTIFICATION

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.

APRIL 27, 2010

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number

10201

# PROJECT PROPOSAL - New Drill / Sidetrack

LIVELY 3N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0052			AFE \$: 927,317.55	
Field Name: SAN JUAN		Rig: Aztec Rig 673		State: NM	County: SAN JUAN	
Geologist:		Phone:		Geophysicist:		Phone:
Geoscientist:		Phone:		Prod. Engineer:		Phone:
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:
<b>Primary Objective (Zones):</b>						
Zone	Zone Name					
RON	BLANCO MESAVERDE (PRORATED GAS)					
FRR	BASIN DAKOTA (PRORATED GAS)					
<b>Location: Surface Datum Code: NAD 27 Directional</b>						
Latitude: 36.735854	Longitude: -107.682268	X:	Y:	Section: 09	Range: 008W	
Footage X: 1776 FWL	Footage Y: 1179 FSL	Elevation: 6504	(FT)	Township: 029N		
Tolerance:						
<b>Location: Bottom Hole Datum Code: NAD 27 Directional</b>						
Latitude: 36.739544	Longitude: -107.682118	X:	Y:	Section: 09	Range: 008W	
Footage X: 1780 FWL	Footage Y: 2520 FSL	Elevation:	(FT)	Township: 029N		
Tolerance:						
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:
Formation Data: Assume KB = 6520 Units = FT						
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	230	6290		<input type="checkbox"/>		
12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.						
NACIMIENTO	892	5628		<input type="checkbox"/>		
OJO ALAMO	2096	4424		<input type="checkbox"/>		
KIRTLAND	2277	4243		<input type="checkbox"/>		
FRUITLAND	2746	3774		<input type="checkbox"/>		Possible Gas
PICTURED CLIFFS	3188	3332		<input type="checkbox"/>		
LEWIS	3304	3216		<input type="checkbox"/>		
Intermediate Casing	3404	3116		<input type="checkbox"/>	111	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 846 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3940	2580		<input type="checkbox"/>		
CHACRA	4156	2364		<input type="checkbox"/>		
UPPER CLIFF HOUSE	4690	1830		<input type="checkbox"/>		Gas; Est. Top Perf - 4691 ( 1828 )
MASSIVE CLIFF HOUSE	4802	1718		<input type="checkbox"/>	288	Gas; Cliffhouse is dry
MENEFEE	4968	1552		<input type="checkbox"/>		
POINT LOOKOUT	5380	1140		<input type="checkbox"/>		
MANCOS	5786	734		<input type="checkbox"/>		
UPPER GALLUP	6634	-114		<input type="checkbox"/>		
GREENHORN	7370	-850		<input type="checkbox"/>		
GRANEROS	7428	-908		<input type="checkbox"/>		
TWO WELLS	7470	-950		<input type="checkbox"/>	2764	Gas
PAGUATE	7586	-1066		<input type="checkbox"/>		
UPPER CUBERO	7605	-1085		<input type="checkbox"/>		

# PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LIVELY 3N

DEVELOPMENT

LOWER CUBERO	7641	-1121	<input type="checkbox"/>	Est. Btm Perf - 7711 (- 1192 ) based on offset wells
ENCINAL	7697	-1177	<input type="checkbox"/>	TD - 40' below T/ENCN
Total Depth	7737	-1217	<input type="checkbox"/>	194 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 590 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	Lively 3	29N 8W 9 NW SE SW
Production	State M1	29N 8W 16 SW NE NW
Production	Roelofs 3E	29N 8W 9 NW SE SE
Production	Lively 3E	29N 8W 9 NE SW NW

**Logging Program:**

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

TD Logs:  Triple Combo  Dipmeter  RFT  Sonic  VSP  TDT  Other

Cased Hole GR / CBL  
Mudlog from 100' above top of GLLP to TD - mudlogger 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 Lively #3N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6520.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6520.0ft (H&P RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Lively #3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	Other Named Wells				
Site Position:	Northing:	2,108,178.26 ft	Latitude:	36° 47' 33.793 N	
From: Lat/Long	Eastng:	643,887.63 ft	Longitude:	107° 20' 30.932 W	
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.29 °

Well:	Lively #3N Directional "S" Curve Long, Lewis not included					
Well Position	+N-S	0.0 ft	Northing:	2,087,141.74 ft	Latitude:	36° 44' 9.075 N
	+E-W	0.0 ft	Eastng:	544,265.58 ft	Longitude:	107° 40' 56.164 W
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft	Ground Level:	6,504.0 ft	

Wellbore:	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	8/9/2010	9.95	63.53	50,829

Design:	Plan #1				
Audit Notes:					
Version:	1	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	1.88	

Plan Sections:										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,491.3	35.14	1.88	1,419.2	347.9	11.4	3.00	3.00	0.00	1.88	
2,768.4	35.14	1.88	2,463.6	1,082.5	35.5	0.00	0.00	0.00	0.00	
3,646.8	0.00	0.00	3,288.0	1,343.4	44.0	4.00	-4.00	0.00	180.00	Lively #3N - VACP
3,762.8	0.00	0.00	3,404.0	1,343.4	44.0	0.00	0.00	0.00	0.00	Lively #3N - ICP
8,095.8	0.00	0.00	7,737.0	1,343.4	44.0	0.00	0.00	0.00	0.00	Lively #3N - PCP

# ConocoPhillips or its affiliates

## Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Lively #3N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6520.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6520.0ft (H&P RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Lively #3N	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Principal Wellbore Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
230.0	0.00	0.00	230.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>9.5/8" Conductor Casing</b>										
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	2.40	1.88	400.0	1.7	0.1	1.7	3.00	3.00	0.00	
500.0	5.40	1.88	499.7	8.5	0.3	8.5	3.00	3.00	0.00	
600.0	8.40	1.88	599.0	20.5	0.7	20.5	3.00	3.00	0.00	
700.0	11.40	1.88	697.5	37.7	1.2	37.7	3.00	3.00	0.00	
800.0	14.40	1.88	795.0	60.0	2.0	60.0	3.00	3.00	0.00	
859.1	16.17	1.88	852.0	75.6	2.5	75.6	3.00	3.00	0.00	
<b>Nacimiento</b>										
900.0	17.40	1.88	891.1	87.3	2.9	87.4	3.00	3.00	0.00	
1,000.0	20.40	1.88	985.7	119.7	3.9	119.8	3.00	3.00	0.00	
1,100.0	23.40	1.88	1,078.5	157.0	5.1	157.1	3.00	3.00	0.00	
1,200.0	26.40	1.88	1,169.2	199.1	6.5	199.2	3.00	3.00	0.00	
1,300.0	29.40	1.88	1,257.6	245.8	8.1	246.0	3.00	3.00	0.00	
1,400.0	32.40	1.88	1,343.4	297.2	9.7	297.3	3.00	3.00	0.00	
1,491.3	35.14	1.88	1,419.2	347.9	11.4	348.1	3.00	3.00	0.00	
1,500.0	35.14	1.88	1,426.4	352.9	11.6	353.1	0.00	0.00	0.00	
1,600.0	35.14	1.88	1,508.1	410.4	13.4	410.6	0.00	0.00	0.00	
1,700.0	35.14	1.88	1,589.9	467.9	15.3	468.2	0.00	0.00	0.00	
1,800.0	35.14	1.88	1,671.7	525.4	17.2	525.7	0.00	0.00	0.00	
1,900.0	35.14	1.88	1,753.5	583.0	19.1	583.3	0.00	0.00	0.00	
2,000.0	35.14	1.88	1,835.2	640.5	21.0	640.8	0.00	0.00	0.00	
2,100.0	35.14	1.88	1,917.0	698.0	22.9	698.4	0.00	0.00	0.00	
2,200.0	35.14	1.88	1,998.8	755.6	24.7	756.0	0.00	0.00	0.00	
2,300.0	35.14	1.88	2,080.6	813.1	26.6	813.5	0.00	0.00	0.00	
2,400.0	35.14	1.88	2,162.3	870.6	28.5	871.1	0.00	0.00	0.00	
2,419.1	35.14	1.88	2,178.0	881.6	28.9	882.1	0.00	0.00	0.00	
<b>Ojo</b>										
2,500.0	35.14	1.88	2,244.1	928.1	30.4	928.6	0.00	0.00	0.00	
2,600.0	35.14	1.88	2,325.9	985.7	32.3	986.2	0.00	0.00	0.00	
2,622.1	35.14	1.88	2,344.0	998.4	32.7	998.9	0.00	0.00	0.00	
<b>Kirtland</b>										
2,700.0	35.14	1.88	2,407.7	1,043.2	34.2	1,043.7	0.00	0.00	0.00	
2,768.4	35.14	1.88	2,463.6	1,082.5	35.5	1,083.1	0.00	0.00	0.00	
2,800.0	33.87	1.88	2,489.6	1,100.4	36.0	1,101.0	4.00	-4.00	0.00	
2,900.0	29.87	1.88	2,574.5	1,153.2	37.8	1,153.8	4.00	-4.00	0.00	
3,000.0	25.87	1.88	2,662.9	1,199.9	39.3	1,200.5	4.00	-4.00	0.00	
3,100.0	21.87	1.88	2,754.4	1,240.3	40.6	1,241.0	4.00	-4.00	0.00	
3,136.1	20.43	1.88	2,788.0	1,253.3	41.1	1,254.0	4.00	-4.00	0.00	
<b>Fruitland</b>										
3,200.0	17.87	1.88	2,848.4	1,274.3	41.7	1,275.0	4.00	-4.00	0.00	
3,300.0	13.87	1.88	2,944.5	1,301.6	42.6	1,302.3	4.00	-4.00	0.00	
3,400.0	9.87	1.88	3,042.4	1,322.2	43.3	1,322.9	4.00	-4.00	0.00	
3,500.0	5.87	1.88	3,141.4	1,335.9	43.8	1,336.6	4.00	-4.00	0.00	
3,568.8	3.12	1.88	3,210.0	1,341.3	43.9	1,342.0	4.00	-4.00	0.00	
<b>Pictured Cliffs</b>										
3,600.0	1.87	1.88	3,241.2	1,342.6	44.0	1,343.4	4.00	-4.00	0.00	
3,646.8	0.00	0.00	3,288.0	1,343.4	44.0	1,344.1	4.00	-4.00	0.00	

# ConocoPhillips or its affiliates

## Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Lively #3N
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6520.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6520.0ft (H&P RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Lively #3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
<b>Lively #3N - VACP</b>									
3,670.8	0.00	0.00	3,312.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Lewis</b>									
3,700.0	0.00	0.00	3,341.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
3,762.8	0.00	0.00	3,404.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>7" Surface Casing - Lively #3N - ICP</b>									
3,800.0	0.00	0.00	3,441.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
3,900.0	0.00	0.00	3,541.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,000.0	0.00	0.00	3,641.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,100.0	0.00	0.00	3,741.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,200.0	0.00	0.00	3,841.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,300.0	0.00	0.00	3,941.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,335.8	0.00	0.00	3,977.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Huerfano Bentonite</b>									
4,400.0	0.00	0.00	4,041.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,500.0	0.00	0.00	4,141.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,524.8	0.00	0.00	4,166.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Chacra</b>									
4,600.0	0.00	0.00	4,241.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,700.0	0.00	0.00	4,341.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,800.0	0.00	0.00	4,441.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,541.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,641.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,100.0	0.00	0.00	4,741.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,138.8	0.00	0.00	4,780.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Upper Cliffhouse</b>									
5,200.0	0.00	0.00	4,841.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,214.8	0.00	0.00	4,856.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Massive Cliffhouse</b>									
5,300.0	0.00	0.00	4,941.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,374.8	0.00	0.00	5,016.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Menefee</b>									
5,400.0	0.00	0.00	5,041.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,141.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,241.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,341.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,734.8	0.00	0.00	5,376.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Point Lookout</b>									
5,800.0	0.00	0.00	5,441.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,541.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,641.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,100.0	0.00	0.00	5,741.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,174.8	0.00	0.00	5,816.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00
<b>Mancos</b>									
6,200.0	0.00	0.00	5,841.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,300.0	0.00	0.00	5,941.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,041.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,141.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,241.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,341.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,441.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,541.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00

**ConocoPhillips or its affiliates**  
**Planning Report**

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Lively #3N
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6520.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6520.0ft (H&P RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Lively #3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
6,984.8	0.00	0.00	6,626.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Upper Gallup</b>										
7,000.0	0.00	0.00	6,641.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,100.0	0.00	0.00	6,741.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	6,841.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,300.0	0.00	0.00	6,941.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,041.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,141.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,241.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,341.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,722.8	0.00	0.00	7,364.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Greenhorn</b>										
7,779.8	0.00	0.00	7,421.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Grñeros</b>										
7,800.0	0.00	0.00	7,441.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,818.8	0.00	0.00	7,460.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Two Wells</b>										
7,900.0	0.00	0.00	7,541.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
7,922.8	0.00	0.00	7,564.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Paguete</b>										
7,954.8	0.00	0.00	7,596.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Upper Cùbero</b>										
7,976.8	0.00	0.00	7,618.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Lower Cùbero</b>										
8,000.0	0.00	0.00	7,641.2	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
8,033.8	0.00	0.00	7,675.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Encinal</b>										
8,094.8	0.00	0.00	7,736.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Total Depth</b>										
8,095.8	0.00	0.00	7,737.0	1,343.4	44.0	1,344.1	0.00	0.00	0.00	
<b>Lively #3N - PCP</b>										

Targets										
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
Lively #3N - ICP - plan hits target center - Circle (radius 100.0)	0.00	0.00	3,404.0	1,343.4	44.0	2,088,485.13	544,307.41	36° 44' 22.359 N	107° 40' 55.624 W	
Lively #3N - VACP - plan hits target center - Circle (radius 100.0)	0.00	0.00	3,288.0	1,343.4	44.0	2,088,485.10	544,307.46	36° 44' 22.359 N	107° 40' 55.623 W	
Lively #3N - PCP - plan hits target center - Circle (radius 100.0)	0.00	0.00	7,737.0	1,343.4	44.0	2,088,485.13	544,307.41	36° 44' 22.359 N	107° 40' 55.624 W	



**ConocoPhillips or its affiliates**  
**Planning Report**

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Lively #3N.
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6520.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6520.0ft (H&P RIGS)
Site:	Other Named Wells	North Reference:	True
Well:	Lively #3N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
8,095.8	7,737.0	4 1/2" Production Casing	4-1/2	6-1/4	
230.0	230.0	9 5/8" Conductor Casing	9-5/8	12-1/4	
3,762.8	3,404.0	7" Surface Casing	7	8-3/4	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,174.8	5,816.0	Mancos		0.00		
859.1	852.0	Nacimiento		0.00		
6,984.8	6,626.0	Upper Gallup		0.00		
7,954.8	7,596.0	Upper Cubero		0.00		
5,214.8	4,856.0	Massive Cliffhouse		0.00		
4,335.8	3,977.0	Huerfanito Bentonite		0.00		
2,419.1	2,178.0	Ojo		0.00		
5,374.8	5,016.0	Menefee		0.00		
7,818.8	7,460.0	Two Wells		0.00		
8,033.8	7,675.0	Encinal		0.00		
3,670.8	3,312.0	Lewis		0.00		
3,136.1	2,788.0	Fruitland		0.00		
3,568.8	3,210.0	Pictured Cliffs		0.00		
7,976.8	7,618.0	Lower Cubero		0.00		
5,734.8	5,376.0	Point Lookout		0.00		
7,779.8	7,421.0	Graneros		0.00		
7,722.8	7,364.0	Greenhorn		0.00		
2,622.1	2,344.0	Kirtland		0.00		
7,922.8	7,564.0	Paguate		0.00		
5,138.8	4,780.0	Upper Cliffhouse		0.00		
4,524.8	4,166.0	Chacra		0.00		
8,094.8	7,736.0	Total Depth		0.00		

REFERENCE INFORMATION

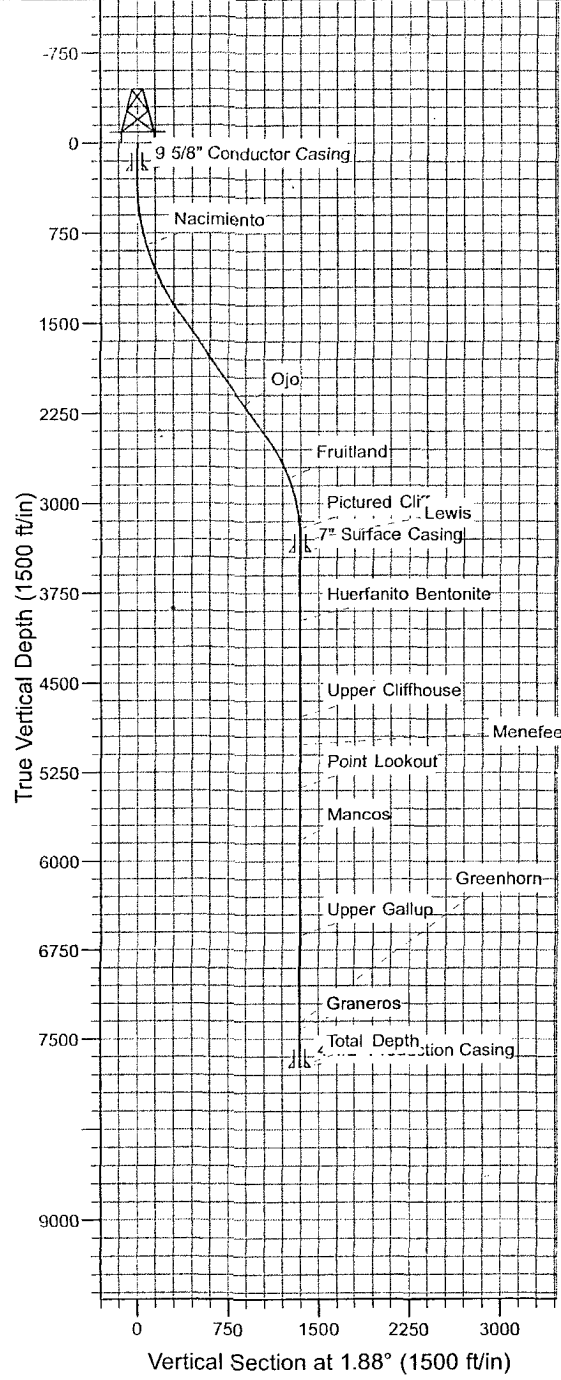
RKB @ 6520.0ft (H&P RIGS)  
 Ground Elevation 6504.0  
 Reference Lat: 36° 44' 9.075 N  
 Reference Long: 107° 40' 56.164 W

Project: San Juan Basin - New Mexico Well  
 Site: Other Named Wells  
 Well: Lively #3N  
 Wellbore: Principal Wellbore  
 Design: Plan #1



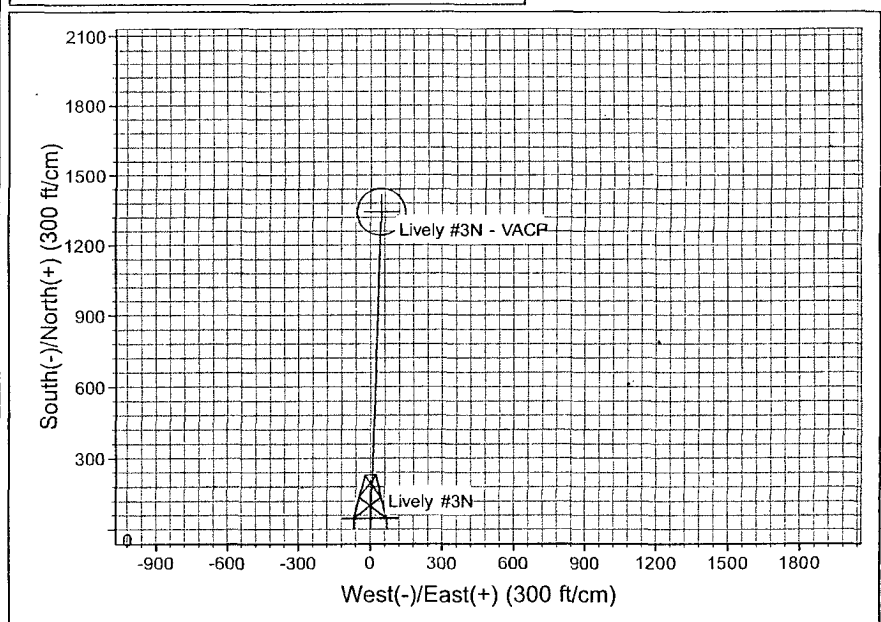
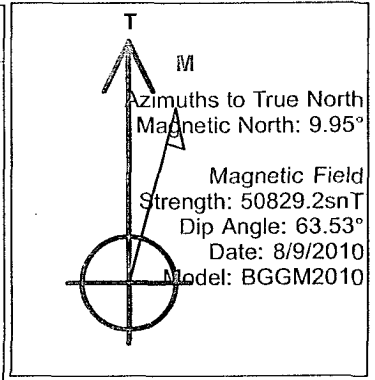
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1491.3	35.14	1.88	1419.2	347.9	11.4	3.00	1.88	348.1	
4	2768.4	35.14	1.88	2463.6	1082.5	35.5	0.00	0.00	1083.1	
5	3646.8	0.00	0.00	3288.0	1343.4	44.0	4.00	180.00	1344.1	Lively #3N - VACP
6	3762.8	0.00	0.00	3404.0	1343.4	44.0	0.00	0.00	1344.1	Lively #3N - ICP
7	8095.8	0.00	0.00	7737.0	1343.4	44.0	0.00	0.00	1344.1	Lively #3N - PCP



FORMATION TOP DETAILS

VDPPath	MDPath	Formation
852.0	859.1	Nacimiento
2178.0	2419.1	Ojo
2344.0	2622.1	Kirtland
2788.0	3136.1	Fruitland
3210.0	3568.8	Pictured Cliffs
3312.0	3670.8	Lewis
3977.0	4335.8	Huerfanito Bentonite
4166.0	4524.8	Chacra
4780.0	5138.8	Upper Cliffhouse
4856.0	5214.8	Massive Cliffhouse
5016.0	5374.8	Menefee
5376.0	5734.8	Point Lookout
5816.0	6174.8	Mancos
6626.0	6984.8	Upper Gallup
7364.0	7722.8	Greenhorn
7421.0	7779.8	Graneros
7460.0	7818.8	Two Wells
7564.0	7922.8	Paguete
7596.0	7954.8	Upper Cubero
7618.0	7976.8	Lower Cubero
7675.0	8033.8	Encinal
7736.0	8094.8	Total Depth



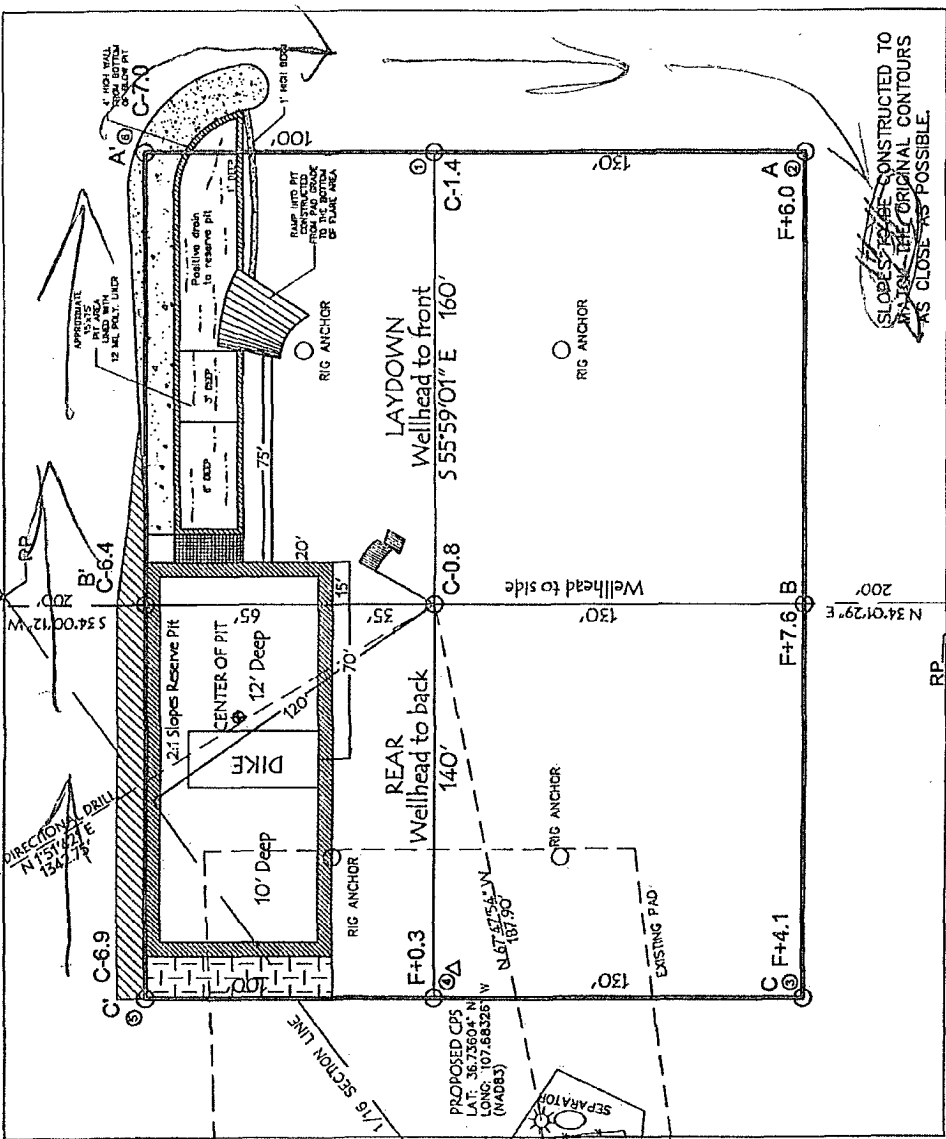
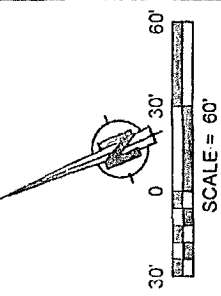
**BURLINGTON RESOURCES OIL & GAS COMPANY LP**

LIVELY #3 N  
 1179 FSL & 1776' FWL  
 LOCATED IN THE SE/4 SW/4 OF SECTION 9,  
 T29N, R8W, N.M.P.M.,  
 SAN JUAN COUNTY, NEW MEXICO  
 GROUND ELEVATION: 6504', NAVD 88  
 FINISHED PAD ELEVATION: 6503.0', NAVD 88

**WELL FLAG**  
 LATITUDE: 36.73586° N  
 LONGITUDE: 107.68288° W  
**CENTER OF PIT**  
 LATITUDE: 36.73609° N  
 LONGITUDE: 107.68292° W  
 ELEVATION: 6491.0'  
 DATUM: NAD83 & NAVD88

- NOTES:
- 1.) BASIS OF BEARING: BETWEEN FOUND MONUMENTS AT THE SOUTHWEST CORNER AND THE SOUTH QUARTER CORNER OF SECTION 9, TOWNSHIP 29 NORTH, RANGE 8 WEST, MERIDIAN 10 WEST, SAN JUAN COUNTY, NEW MEXICO. G.P.S. LINE BEARS: S 88°27'48" W A DISTANCE OF 2576.15 FEET AS MEASURED BY G.P.S.
  - 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL CENTER: BASED ON AZTEC COAS U1 PHASE DISTANCES SHOWN ARE GROUND DISTANCES USING A TRAVERSE LEICORTRON REFLECTOR TO MAJOR ELLIPSOID, NAVARRA ELEVATIONS AS PREDICTED BY GEODIOL.
  - 3.) LOCATION OF UNDERGROUND UTILITIES SHOWN ARE BASED ON RECORDS TO BE PROVIDED BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO PUBLIC UTILITIES COMMISSION AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

WELL-LEVEL #3  
 LAT: 36.73586° N (83)  
 LONG: 107.68288° W (83)  
 LAT: 36.73609° N (83)  
 LONG: 107.68292° W (83)  
 (MAD83)



TOTAL PERMITTED AREA  
 330' x 400' = 3.03 ACRES  
 SCALE: 1" = 60'  
 JOB No.: COPC381  
 DATE: 04/30/10  
 DRAWN BY: TWT

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

