

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

AUG 17 2012

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-076934-A Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name MV - NMNM-73786 DK - NMNM-75884 MC - Required CA
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Lively 9. Well Number 30M
4. Location of Well Surface: Unit M(SW/SW), 645' FSL & 540' FWL BHL : Unit L(NW/SW), 1955' FSL & 710' FWL Surface: Latitude: 36.79184° N (NAD83) Longitude: 107.81064° W BHL : Latitude: 36.79544° N (NAD83) Longitude: 107.81002° W	10. Field, Pool, Wildcat Blanco MV/Basin DK/ Blanco MC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 20, T30N, R9W API # 30-045-35405
14. Distance in Miles from Nearest Town 13 miles from Aztec	12. County San Juan
15. Distance from Proposed Location to Nearest Property or Lease Line 540'	13. State NM
16. Acres in Lease 320.000	17. Acres Assigned to Well 320.0 Acres - W/2
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 565' from Lively #30/DK	
19. Proposed Depth 7284'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6062' GL	22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	8/17/12 Date



H₂S POTENTIAL EXIST

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

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

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Hold C104

Title 18 U.S.C. Section 1001, makes it a crime for any person to make any statement to any department or agency of the United States any false, fictitious or fraudulent statements or presentations and to use any matter within the jurisdiction of any such department or agency to obtain any benefit or to avoid any payment.

Example Master Plan Type 3

Bond Numbers NMB000015 and NMB000089

U.S. APPROVAL OR ACCEPTANCE OF THIS
ACTION DOES NOT RELIEVE THE LESSEE AND
ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL LAND

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

NMOCD

OCT 23 2012 ca

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

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies
AUG 17 2012

Farmington Field Office
Bureau of Land Management

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-35405	*Pool Code 72319 / 71599/97232	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA / MANCOS
*Property Code 18182	*Property Name LIVELY	*Well Number 30M
*OGRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6062'

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
M	20	30N	9W		645	SOUTH	540	WEST	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
L	20	30N	9W		1955	SOUTH	710	WEST	SAN JUAN

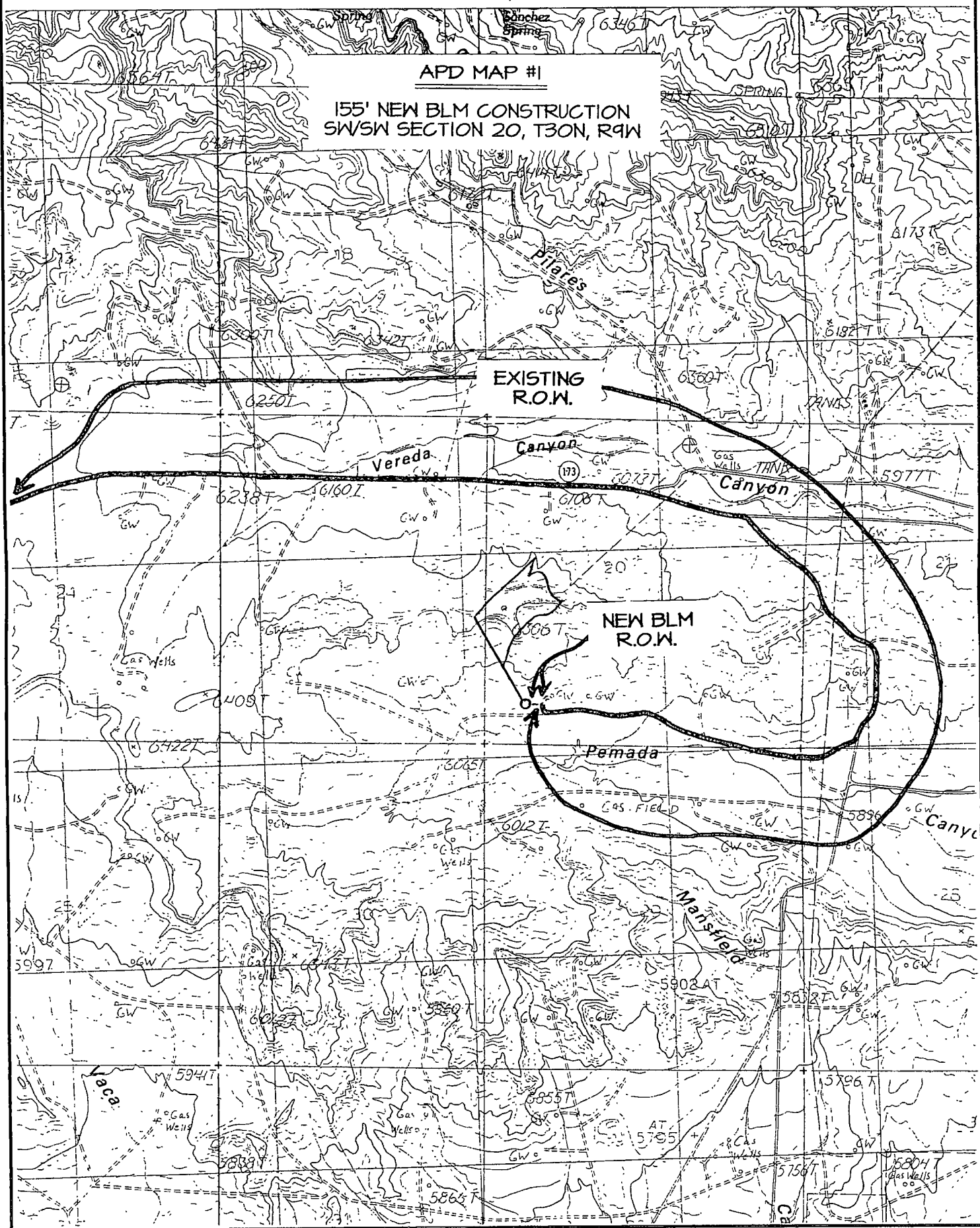
¹² Dedicated Acres MV/DK/MC 320.0 Acres - W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16 5261.52' LEASE SF-078116-A GRID NORTH 0°05'4" TRUE NORTH 0°05'1" MAGNETIC NORTH 5247.66' 710' 665' 1890' 20 1980' 1955' 540' 645' 2050' 5169.78' NOT°50.3'E 1323.1' LEASE SF-076934-A BOTTOM-HOLE LAT: 36°47.7262'N LONG: 107°48.5642'W DATUM: NAD1927 LAT: 36.79544°N LONG: 107.81002°W DATUM: NAD1983 SURFACE LOCATION LAT: 36°47.5101'N LONG: 107°48.6012'W DATUM: NAD1927 LAT: 36.79184°N LONG: 107.81064°W DATUM: NAD1983	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. <i>Arleen Kellywood</i> 2/10/12 Signature Date Arleen Kellywood 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. Survey Date: NOVEMBER 16, 2010 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269
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SAN JUAN COUNTY, NEW MEXICO

155' NEW BLM CONSTRUCTION
SW/SW SECTION 20, T30N, R9W



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LIVELY 30M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0018				AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 730		State: NM	County: SAN JUAN		API #:
Geologist:	Phone:	Geophysicist:		Phone:			
Geoscientist:	Phone:	Prod. Engineer:		Phone:			
Res. Engineer:	Phone:	Proj. Field Lead:		Phone:			
Primary Objective (Zones):							
Zone	Zone Name						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
RCO085	MANCOS(RCO085)						
Location: Surface Datum Code: NAD 27 Directional:							
Latitude: 36.791835	Longitude: -107.810022	X:	Y:	Section: 20	Range: 009W		
Footage X: 540 FWL	Footage Y: 645 FSL	Elevation: 6062	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional:							
Latitude: 36.795435	Longitude: -107.809402	X:	Y:	Section: 20	Range: 009W		
Footage X: 710 FWL	Footage Y: 1955 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6077 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5877		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.
OJO ALAMO	1431	4646		☐			
KIRTLAND	1598	4479		☐			
FRUITLAND	2164	3913		☐			Possible Gas
PICTURED CLIFFS	2745	3332		☐			
LEWIS	2870	3207		☐			
HUERFANITO BENTONITE	3456	2621		☐			
CHACRA	3738	2339		☐			
Intermediate Casing	4000	2077		☐	114		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 901 cuft. Circulate cement to surface.
UPPER CLIFF HOUSE	4240	1837		☐			Gas; Est. Top Perf - 4242 (1835)
MASSIVE CLIFF HOUSE	4340	1737		☐	270		Gas; Cliffhouse is dry
MENEFEE	4514	1563		☐			
POINT LOOKOUT	4970	1107		☐			
MANCOS	5312	765		☐			
UPPER GALLUP	6240	-163		☐			
GREENHORN	6979	-902		☐			
GRANEROS	7034	-957		☐			
TWO WELLS	7078	-1001		☐	2378		Gas
PAGUATE	7181	-1104		☐			
LOWER CUBERO	7220	-1143		☐			Est. Btm Perf - 7264 (- 1187) based on offset wells
UPPER CUBERO	7220	-1143		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

LIVELY 30M

DEVELOPMENT

ENCINAL	7284	-1207	☐	198	TD - T/ENCN
Total Depth	7284	-1207	☐		6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 433 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Florance 2E	30N 9W 20 NE SW SE
Production	Mansfield Com 4E	30N 9W 30 NE SW NE
Production	Mansfield 1	30N 9W 19 SE SE SE

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 30M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6077.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6077.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Lively 30M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

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

Site	Other Named Wells		
Site Position:		Northing:	2,063,826.04 ft
From:	Lat/Long	Easting:	504,691.02 ft
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 40' 18.848 N
		Longitude:	107° 49' 2.415 W
		Grid Convergence:	0.01 °

Well:	Lively 30M		
Well Position	+N/-S	0.0 ft	Northing: 2,107,487.24 ft
	+E/-W	0.0 ft	Easting: 506,826.36 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	ft
		Latitude:	36° 47' 30.606 N
		Longitude:	107° 48' 36.072 W
		Ground Level:	6,062.0 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	BGGM2011	7/27/2012	9.79
			Dip Angle
			63.46
			Field Strength
			50,608

Design	APD Plan		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.0	0.0	0.0
			Direction
			(°)
			7.84

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
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	
1,155.3	25.06	7.84	1,128.9	178.1	24.5	3.00	3.00	0.00	7.84	
3,431.7	25.06	7.84	3,191.1	1,133.2	156.1	0.00	0.00	0.00	0.00	
4,267.0	0.00	0.00	4,000.0	1,311.3	180.6	3.00	-3.00	0.00	180.00	LIVELY 30M - ICP
7,551.0	0.00	0.00	7,284.0	1,311.3	180.6	0.00	0.00	0.00	0.00	LIVELY 30M - PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Lively 30M
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Lively 30M
TVD Reference: WELL @ 6077 0ft (Original Well Elev)
MD Reference: WELL @ 6077 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
SCP									
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	7.84	400.0	1.7	0.2	1.7	3.00	3.00	0.00
500.0	5.40	7.84	499.7	8.4	1.2	8.5	3.00	3.00	0.00
600.0	8.40	7.84	599.0	20.3	2.8	20.5	3.00	3.00	0.00
700.0	11.40	7.84	697.5	37.3	5.1	37.7	3.00	3.00	0.00
800.0	14.40	7.84	795.0	59.4	8.2	60.0	3.00	3.00	0.00
900.0	17.40	7.84	891.1	86.6	11.9	87.4	3.00	3.00	0.00
1,000.0	20.40	7.84	985.7	118.7	16.3	119.8	3.00	3.00	0.00
1,100.0	23.40	7.84	1,078.5	155.6	21.4	157.1	3.00	3.00	0.00
1,155.3	25.06	7.84	1,128.9	178.1	24.5	179.8	3.00	3.00	0.00
1,200.0	25.06	7.84	1,169.4	196.8	27.1	198.7	0.00	0.00	0.00
1,300.0	25.06	7.84	1,260.0	238.8	32.9	241.1	0.00	0.00	0.00
1,400.0	25.06	7.84	1,350.6	280.8	38.7	283.4	0.00	0.00	0.00
1,488.8	25.06	7.84	1,431.0	318.0	43.8	321.0	0.00	0.00	0.00
Ojo									
1,500.0	25.06	7.84	1,441.2	322.7	44.4	325.8	0.00	0.00	0.00
1,600.0	25.06	7.84	1,531.8	364.7	50.2	368.1	0.00	0.00	0.00
1,673.1	25.06	7.84	1,598.0	395.4	54.5	399.1	0.00	0.00	0.00
Kirtland									
1,700.0	25.06	7.84	1,622.4	406.6	56.0	410.5	0.00	0.00	0.00
1,800.0	25.06	7.84	1,712.9	448.6	61.8	452.8	0.00	0.00	0.00
1,900.0	25.06	7.84	1,803.5	490.5	67.6	495.2	0.00	0.00	0.00
2,000.0	25.06	7.84	1,894.1	532.5	73.3	537.5	0.00	0.00	0.00
2,100.0	25.06	7.84	1,984.7	574.5	79.1	579.9	0.00	0.00	0.00
2,200.0	25.06	7.84	2,075.3	616.4	84.9	622.2	0.00	0.00	0.00
2,297.9	25.06	7.84	2,164.0	657.5	90.6	663.7	0.00	0.00	0.00
Fruitland									
2,300.0	25.06	7.84	2,165.9	658.4	90.7	664.6	0.00	0.00	0.00
2,400.0	25.06	7.84	2,256.5	700.3	96.5	706.9	0.00	0.00	0.00
2,500.0	25.06	7.84	2,347.1	742.3	102.2	749.3	0.00	0.00	0.00
2,600.0	25.06	7.84	2,437.6	784.2	108.0	791.7	0.00	0.00	0.00
2,700.0	25.06	7.84	2,528.2	826.2	113.8	834.0	0.00	0.00	0.00
2,800.0	25.06	7.84	2,618.8	868.2	119.6	876.4	0.00	0.00	0.00
2,900.0	25.06	7.84	2,709.4	910.1	125.3	918.7	0.00	0.00	0.00
2,939.3	25.06	7.84	2,745.0	926.6	127.6	935.3	0.00	0.00	0.00
Pictured Cliffs									
3,000.0	25.06	7.84	2,800.0	952.1	131.1	961.1	0.00	0.00	0.00
3,077.3	25.06	7.84	2,870.0	984.5	135.6	993.8	0.00	0.00	0.00
Lewis									
3,100.0	25.06	7.84	2,890.6	994.0	136.9	1,003.4	0.00	0.00	0.00
3,200.0	25.06	7.84	2,981.2	1,036.0	142.7	1,045.8	0.00	0.00	0.00
3,300.0	25.06	7.84	3,071.8	1,077.9	148.5	1,088.1	0.00	0.00	0.00
3,400.0	25.06	7.84	3,162.4	1,119.9	154.2	1,130.5	0.00	0.00	0.00
3,431.7	25.06	7.84	3,191.1	1,133.2	156.1	1,143.9	0.00	0.00	0.00
3,500.0	23.01	7.84	3,253.4	1,160.8	159.9	1,171.7	3.00	-3.00	0.00
3,600.0	20.01	7.84	3,346.5	1,197.1	164.9	1,208.4	3.00	-3.00	0.00
3,700.0	17.01	7.84	3,441.3	1,228.5	169.2	1,240.1	3.00	-3.00	0.00
3,715.4	16.55	7.84	3,456.0	1,232.9	169.8	1,244.6	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Lively 30M
 Wellbore: Wellbore #1
 Design: APD Plan

Local Co-ordinate Reference: Well Lively 30M
 TVD Reference: WELL @ 6077 0ft (Original Well Elev)
 MD Reference: WELL @ 6077 0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
Huerfanito Bentonite									
3,800.0	14.01	7.84	3,537.6	1,255.0	172.8	1,266.9	3.00	-3.00	0.00
3,900.0	11.01	7.84	3,635.2	1,276.5	175.8	1,288.5	3.00	-3.00	0.00
4,000.0	8.01	7.84	3,733.9	1,292.8	178.1	1,305.0	3.00	-3.00	0.00
4,004.2	7.88	7.84	3,738.0	1,293.4	178.1	1,305.6	3.00	-3.00	0.00
Chacra									
4,100.0	5.01	7.84	3,833.2	1,304.1	179.6	1,316.4	3.00	-3.00	0.00
4,200.0	2.01	7.84	3,933.0	1,310.1	180.4	1,322.5	3.00	-3.00	0.00
4,267.0	0.00	0.00	4,000.0	1,311.3	180.6	1,323.7	3.00	-3.00	0.00
ICP - LIVELY 30M - ICP									
4,300.0	0.00	0.00	4,033.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,400.0	0.00	0.00	4,133.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,500.0	0.00	0.00	4,233.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,507.0	0.00	0.00	4,240.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Upper Cliffhouse									
4,600.0	0.00	0.00	4,333.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,607.0	0.00	0.00	4,340.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Massive Cliffhouse									
4,700.0	0.00	0.00	4,433.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,781.0	0.00	0.00	4,514.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Menefee									
4,800.0	0.00	0.00	4,533.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,633.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,733.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,100.0	0.00	0.00	4,833.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,200.0	0.00	0.00	4,933.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,237.0	0.00	0.00	4,970.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Point Lookout									
5,300.0	0.00	0.00	5,033.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,133.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,233.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,579.0	0.00	0.00	5,312.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Mancos									
5,600.0	0.00	0.00	5,333.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,433.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,533.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,633.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,733.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,100.0	0.00	0.00	5,833.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,200.0	0.00	0.00	5,933.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,033.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,133.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,233.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,507.0	0.00	0.00	6,240.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Upper Gallup									
6,600.0	0.00	0.00	6,333.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,433.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,533.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,633.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,733.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,100.0	0.00	0.00	6,833.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,933.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Lively 30M
Wellbore: Wellbore #1
Design: APD Plan

Local Co-ordinate Reference: Well Lively 30M
TVD Reference: WELL @ 6077 0ft (Original Well Elev)
MD Reference: WELL @ 6077 0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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)
7,246.0	0.00	0.00	6,979.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Greenhorn									
7,300.0	0.00	0.00	7,033.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,301.0	0.00	0.00	7,034.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Graneros									
7,345.0	0.00	0.00	7,078.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Two Wells									
7,400.0	0.00	0.00	7,133.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,448.0	0.00	0.00	7,181.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Paguate									
7,487.0	0.00	0.00	7,220.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Upper Cubero - Lower Cubero									
7,500.0	0.00	0.00	7,233.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
7,551.0	0.00	0.00	7,284.0	1,311.3	180.6	1,323.7	0.00	0.00	0.00
Encinal - Total Depth - PCP - LIVELY 30M - PCP									

Targets

Target Name

hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LIVELY 30M - ICP - plan hits target center - Point	0.00	0.00	4,000.0	1,311.3	180.6	2,108,798.48	507,006.63	36° 47' 43.572 N	107° 48' 33.852 W
LIVELY 30M - PCP - plan hits target center - Point	0.00	0.00	7,284.0	1,311.3	180.6	2,108,798.46	507,006.60	36° 47' 43.572 N	107° 48' 33.852 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
200.0	200.0	SCP	9-5/8	12-1/4
4,267.0	4,000.0	ICP	7	8-3/4
7,551.0	7,284.0	PCP	4-1/2	6-1/4

ConocoPhillips or its affiliates

Planning Report

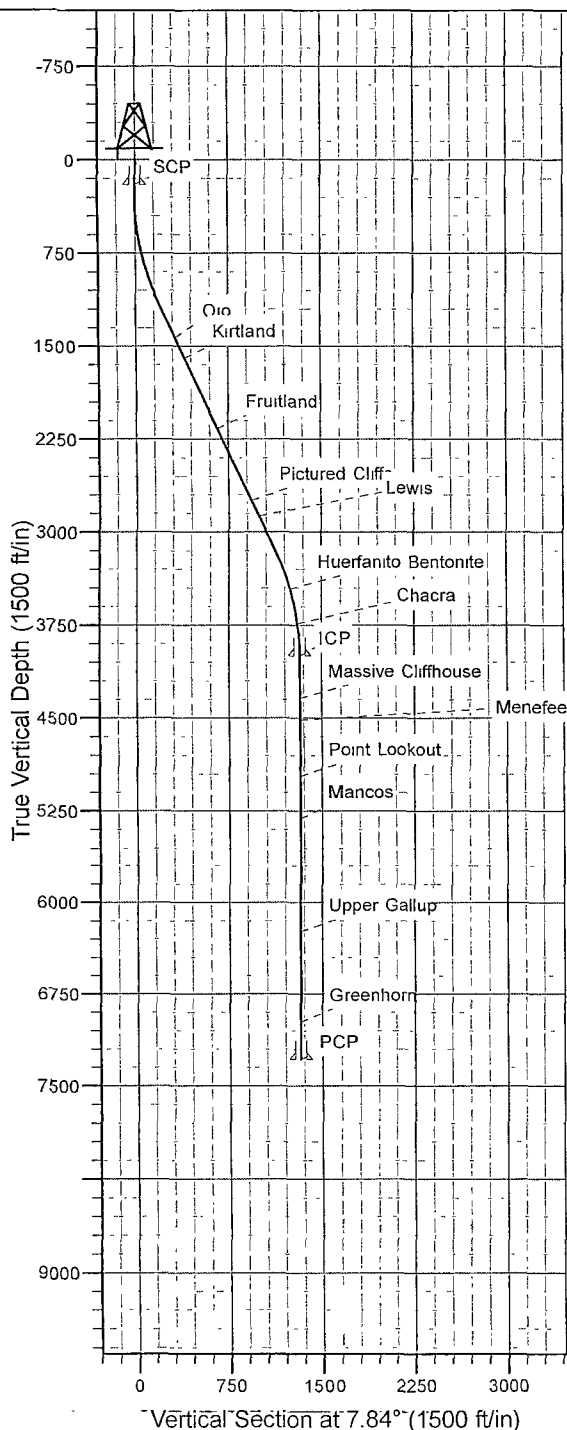
Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Lively 30M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6077 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6077 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Lively 30M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	APD Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,345.0	7,078.0	Two Wells		0.00		
7,301.0	7,034.0	Graneros		0.00		
5,579.0	5,312.0	Mancos		0.00		
7,487.0	7,220.0	Lower Cubero		0.00		
5,237.0	4,970.0	Point Lookout		0.00		
1,673.1	1,598.0	Kirtland		0.00		
4,004.2	3,738.0	Chacra		0.00		
7,551.0	7,284.0	Total Depth		0.00		
7,246.0	6,979.0	Greenhorn		0.00		
4,507.0	4,240.0	Upper Cliffhouse		0.00		
2,297.9	2,164.0	Fruitland		0.00		
3,077.3	2,870.0	Lewis		0.00		
4,607.0	4,340.0	Massive Cliffhouse		0.00		
4,781.0	4,514.0	Menefee		0.00		
6,507.0	6,240.0	Upper Gallup		0.00		
3,715.4	3,456.0	Huerfano Bentonite		0.00		
7,448.0	7,181.0	Paguate		0.00		
1,488.8	1,431.0	Ojo		0.00		
7,551.0	7,284.0	Encinal		0.00		
7,487.0	7,220.0	Upper Cubero		0.00		
2,939.3	2,745.0	Pictured Cliffs		0.00		

REFERENCE INFORMATION WELL @ 6077.0ft (Original Well Elev) Ground Elevation 6062.0 Reference Lat: 36° 47' 30.606 N Reference Long: 107° 48' 36.072 W	Project: San Juan Basin - New Mexico West V Site: Other Named Wells Well: Lively 30M Wellbore: Wellbore #1 Design: APD Plan	
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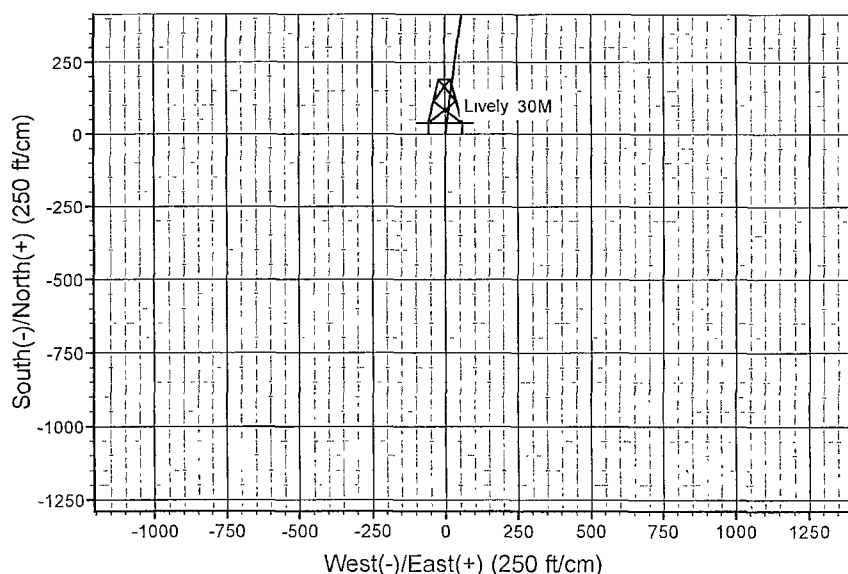
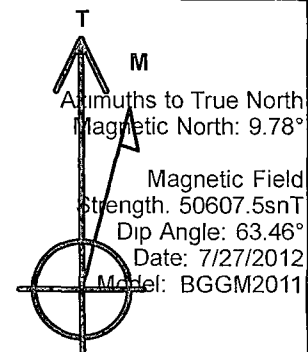
SECTION DETAILS

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	1155.3	25.06	7.84	1128.9	178.1	24.5	3.00	7.84	179.8	
4	3431.7	25.06	7.84	3191.1	1133.2	156.1	0.00	0.00	1143.9	
5	4267.0	0.00	0.00	4000.0	1311.3	180.6	3.00	180.00	1323.7	LIVELY 30M - ICP
6	7551.0	0.00	0.00	7284.0	1311.3	180.6	0.00	0.00	1323.7	LIVELY 30M - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1431.0	1488.8	Ojo
1598.0	1673.1	Kirtland
2164.0	2297.9	Fruitland
2745.0	2939.3	Pictured Cliffs
2870.0	3077.3	Lewis
3456.0	3715.4	Huerfanto Bentonite
3738.0	4004.2	Chacra
4240.0	4507.0	Upper Cliffhouse
4340.0	4607.0	Massive Cliffhouse
4514.0	4781.0	Menefee
4970.0	5237.0	Point Lookout
5312.0	5579.0	Mancos
6240.0	6507.0	Upper Gallup
6979.0	7246.0	Greenhorn
7034.0	7301.0	Graneros
7078.0	7345.0	Two Wells
7181.0	7448.0	Paguate
7220.0	7487.0	Lower Cubero
7220.0	7487.0	Upper Cubero
7284.0	7551.0	Encinal
7284.0	7551.0	Total Depth



Directions from the Intersection of US Hwy 550 & State Hwy 173 in Aztec, NM
to Burlington Resources Oil & Gas Company Lively #30M

645' FSL & 540' FWL, Section 20, T30N, R9W, N.M.P.M., San Juan County, NM

Latitude : 36.79184°N Longitude : 107.81064°W Datum : NAD1983

From the intersection of US Hwy 550 & State Hwy 173 in Aztec, NM, travel Easterly on State Hwy 173 for 11.2 miles;

Go right (South-easterly) for 0.9 miles to fork in road;

Go right (South-westerly) for 1.0 miles to fork in road;

Go right (Northerly) for 150' to new access on left-hand side of existing roadway which continues for 155' to staked location.

EMERGENCY RESPONSE AREA

BURLINGTON RESOURCES OIL & GAS COMPANY LIVELY #30M

645' FSL & 540' FWL, SECTION 20, T30N, R9W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

