

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number USA SF-079519-A Unit Reporting Number NMNM-784117-MV NMNM-784118-DC	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name San Juan 28-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #87M	
4. Location of Well Surf: Unit J (NWSE), 1685' FSL & 1430' FEL BH: Unit P (SESE), 700' FSL & 700' FEL SURF: Latitude 36° 38.6470 N Longitude 107° 20.5107 W BH: Latitude 36° 38.4845 N Longitude 107° 20.3619W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 22, T28N, R5W API # 30-039-3026 3	
14. Distance in Miles from Nearest Town 6 mile/Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1580'	17. Acres Assigned to Well MV 320 (S/2) DK 320 (E/2)	
16. Acres in Lease	18. Distance from Proposed Location to Nearest Well, Drilling Compl. Applied for on this Lease	
19. Proposed Depth 8274' (TVD)/8496' (TMD)	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6924' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <i>Rhonda Rogers</i> Rhonda Rogers (Regulatory Technician)	5-17-07 Date	

PERMIT NO. *5/24/07* APPROVAL DATE *5/24/07*
APPROVED BY *[Signature]* TITLE *AFM* DATE *5/24/07*

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

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

HOLD GIVE FOR *directional survey*

06-08-07
RLH
NMOCD
B

NOTIFY AZTEC OGD 24 HRS.
PRIOR TO CASING & CEMENT

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

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.

30-039- 30263

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease # USA SF-079519-A

7. Lease Name or Unit Agreement Name

San Juan 28-5 Unit

8. Well Number

#87M

9. OGRID Number

14538

10. Pool name or Wildcat

Blanco MV/Basin DK

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

BURLINGTON RESOURCES OIL & GAS COMPANY LP

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter J : 1685' feet from the South line and 1430' feet from the East lineSection 22 Township 28N Rng 5W NMPM County Rio Arriba

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

6924'

Pit or Below-grade Tank Application

☐ or Closure ☐Pit type New Drill

Depth to Groundwater

<50

Distance from nearest fresh water well

>1000

Distance from nearest surface water

>200

Pit Liner Thickness: 12mil

Below-Grade Tank:

Volume

bbls;

Construction Material

<1000

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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐

OTHER:

New Drill ☒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:

Burlington Resources proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on Burlington's interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in Burlington's Revised Drilling / Workover Pit Construction / Operation Procedures dated November 11, 2004 on file at the NMOCDD 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. Burlington Resources anticipates closing these pits according to the Drilling / Workover Pit Closure Procedure dated August 2, 2004 on file at the NMOCDD office.

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 NMOCDD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

TITLE

Regulatory Technician

DATE

5-7-07

Type or print name

Rhonda Rogers

E-mail address:

ogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

APPROVED BY

TITLE

DEPUTY OIL & GAS INSPECTOR, DIST. #

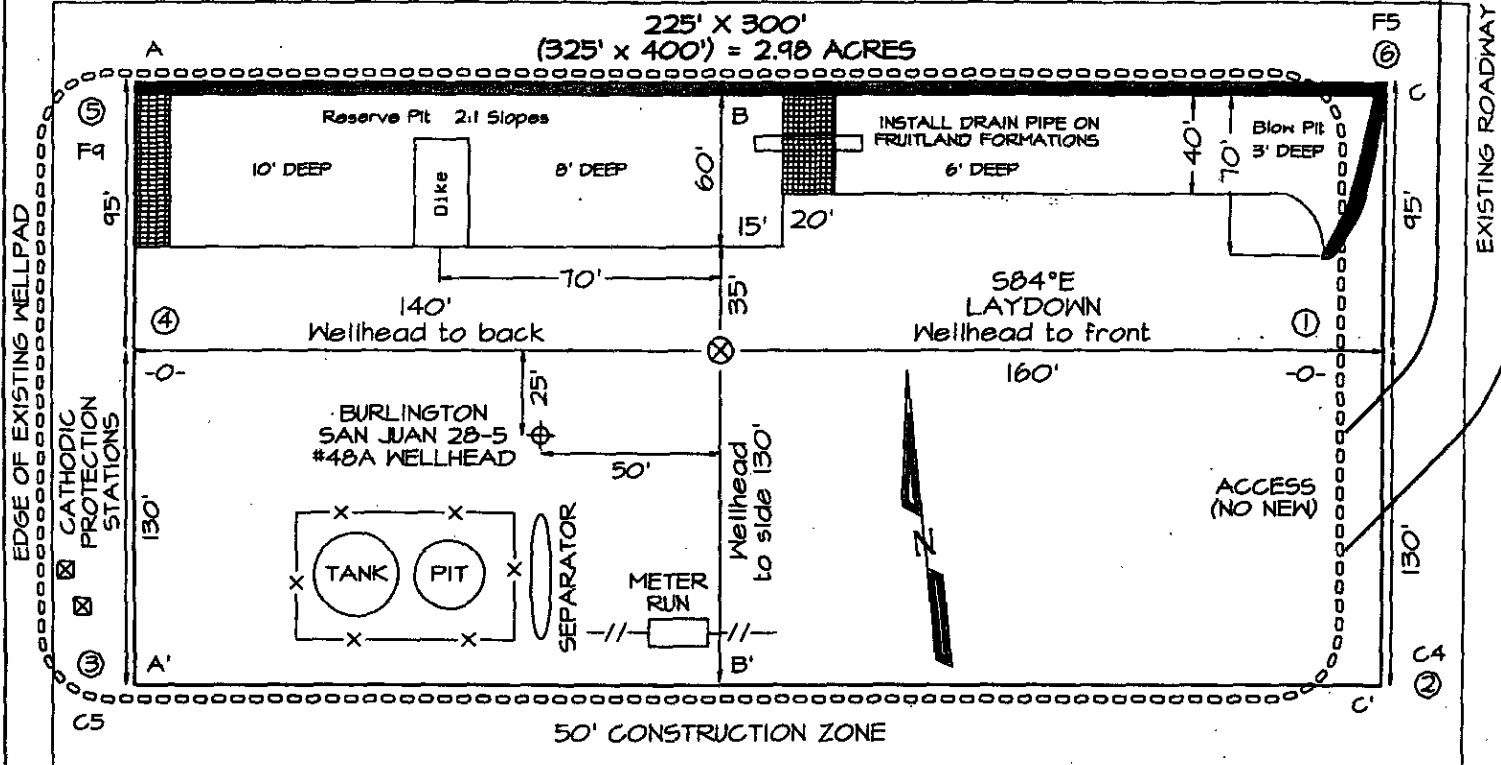
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JUN 08 2007

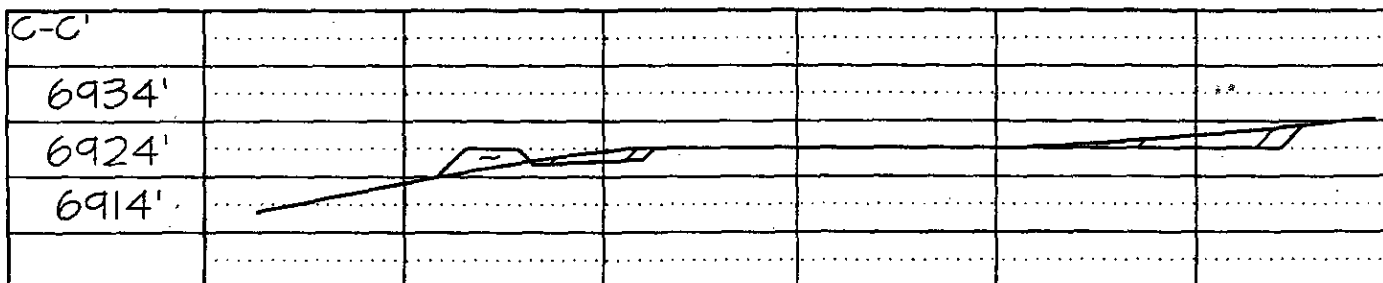
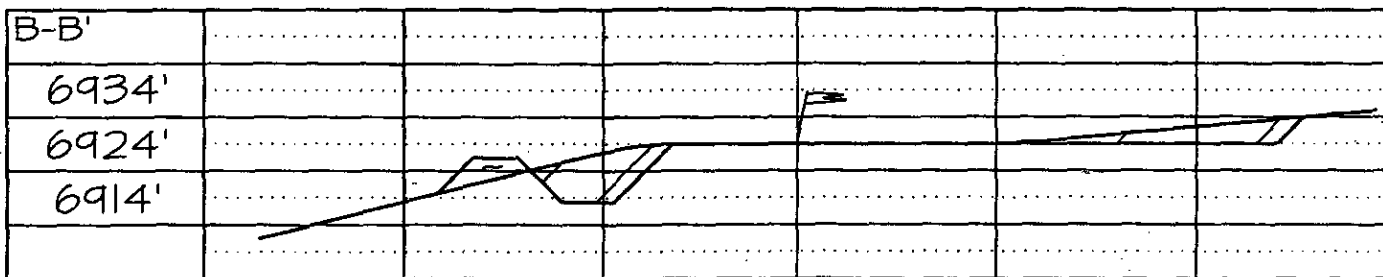
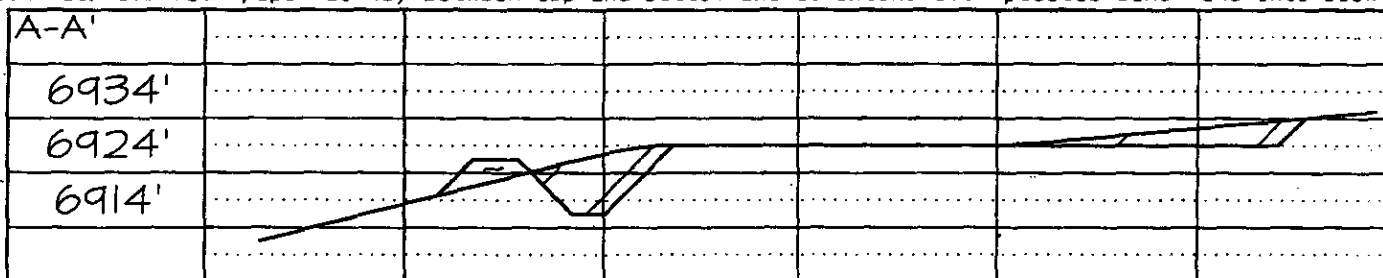
Conditions of Approval (if any):

BURLINGTON RESOURCES OIL & GAS COMPANY, LP
SAN JUAN 28-5 UNIT #87M, 1685' FSL & 1430' FEL
SECTION 22, T28N, R5W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6924' DATE: OCTOBER 18, 2005

LATITUDE: 36°38'39"
LONGITUDE: 107°20'31"
 DATUM: NAD1927



Reserve Pit Dike: to be 8' above Deep side (overflow - 3' wide and 1' above shallow side).
 Blow Pit: overflow pipe halfway between top and bottom and to extend over plastic liner and into blow pit.



Note: 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 prior to construction

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 87M

DEVELOPMENT

Lease:		AFE #: WAN.ZA2.4515/4516MV				AFE \$:	
Field Name: hBR_SAN JUAN 28-5 UNIT		Rig: Aztec Rig 673		State: NM		County: RIO ARRIBA	
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:		Phone:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Deviated	
Latitude: 38.644117	Longitude: -107.341845	X: 644181.70	Y: 2054015.00	Section: 22	Range: 005W		
Footage X: 1430 FEL	Footage Y: 1685 FSL	Elevation: 6924	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole		Datum Code: NAD 27				Deviated	
Latitude: 36.641408	Longitude: -107.339365	X: 644921.31	Y: 2053097.40	Section: 22	Range: 005W		
Footage X: 700 FEL	Footage Y: 700 FSL	Elevation:	(FT)	Township: 028N			
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6936 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	216	6720	☐			12-1/4 hole. 216' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 203 cuft. Circulate cement to surface.	
OJO ALAMO	3131	3805	☐			Possible water Surface twin with 28-5 #48A	
KIRTLAND	3288	3648	☐				
FRUITLAND COAL	3618	3318	☐			Possible Gas	
PICTURED CLIFFS	3825	3111	☐			Possible Gas	
LEWIS	3996	2940	☐				
Intermediate Casing	4146	2790	☐			8 3/4" hole. 7" 20/23 ppf J-55, STC/LTC casing. Circulate cement to surface. Cement with 974 cu.ft.	
HUERFANITO BENTONITE	4456	2480	☐				
CHACRA	4806	2130	☐			Azimuth ~ 144 degrees with ~ 1226' reach	
MASSIVE CLIFF HOUSE	5603	1333	☐			Gas	
MENEFEE	5666	1270	☐			Gas	
MASSIVE POINT LOOKOUT	6001	935	☐			Gas	
MANCOS	6421	515	☐				
UPPER GALLUP	7203	-267	☐				
GREENHORN	7946	-1010	☐				
GRANEROS	8001	-1065	☐				
TWO WELLS	8058	-1122	☐			Gas	
UPPER CUBERO	8143	-1207	☐			Gas	
LOWER CUBERO	8190	-1254	☐				
OAK CANYON	8258	-1322	☐			Estimated bottom perf ~ 8254 TVD (196' below T/Two Wells	
ENCINAL	8274	-1338	☐			Gas TD is ~216' below T/Paguate	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 28-5 UNIT 87M

DEVELOPMENT

TOTAL DEPTH DK	8274	-1338	☐	2600	6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 564 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-5 Unit 86	SW23-28N-05W

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

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

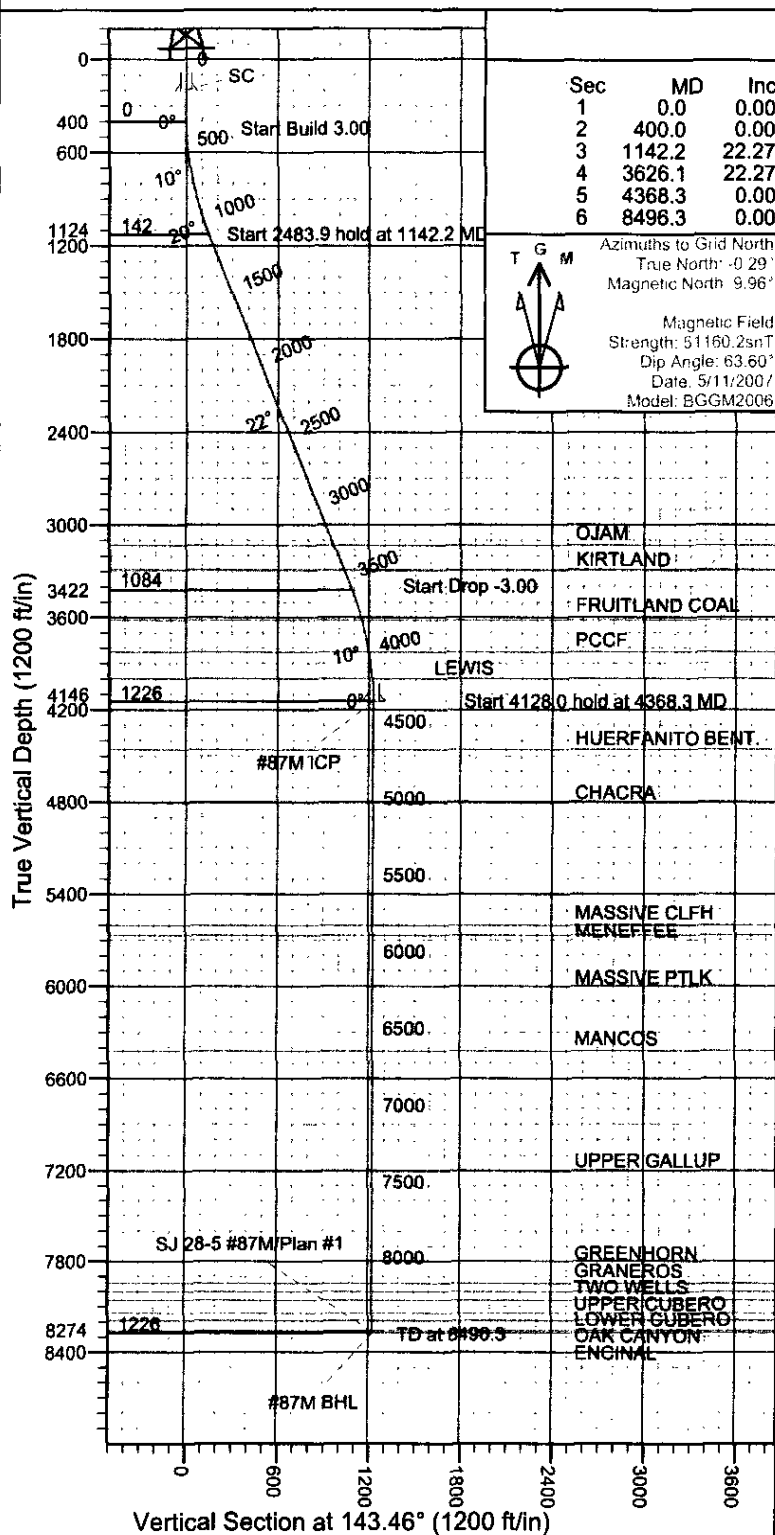
Mudlog from 100' above Greenhorn to TD - mudlogger will call TD.

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

Comments: Location/Tops/Logging - DK 28N05W22SE1 MVNM028N005W22SE2

Zones - DK 28N05W22SE1 MVNM028N005W22SE2

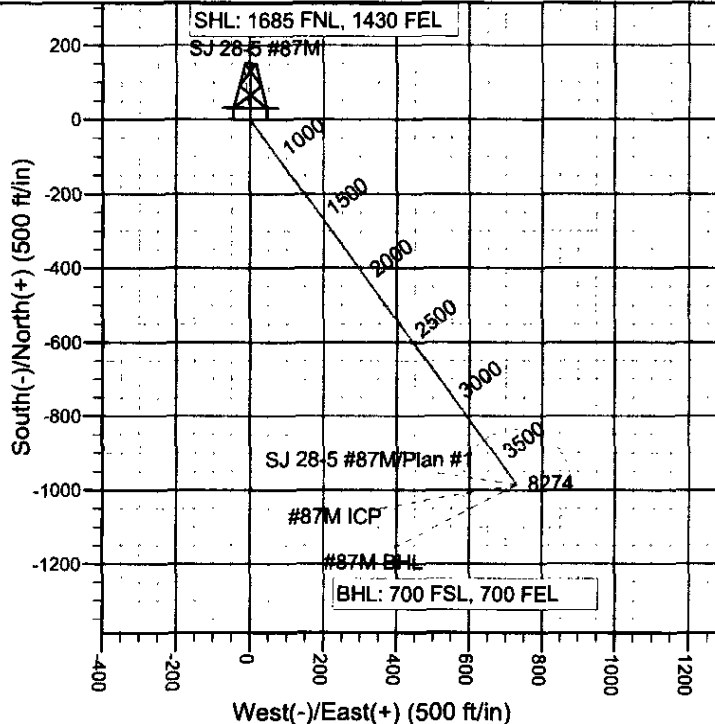
General/Work Description - 4/5/06 DEFER FOR DD EVAL DUE TO RUFF TERRAIN & ARCH (POSSIBLE TWIN W/48A)
LEWIS INCLUDED 2/14/07 moved into 2008 we have DD plats. wfp



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	400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	
3	1142.2	22.27	143.46	1123.7	-114.4	84.8	3.00	143.46	142.4	
4	3626.1	22.27	143.46	3422.3	-870.6	645.2	0.00	0.00	1083.6	
5	4368.3	0.00	0.00	4146.0	-985.0	730.0	3.00	180.00	1226.0	#87M ICP
6	8496.3	0.00	0.00	8274.0	-985.0	730.0	0.00	0.00	1226.0	#87M BHL

Azimuths to Grid North
True North: -0.29°
Magnetic North: 9.96°
Magnetic Field
Strength: 51160.2nT
Dip Angle: 63.60°
Date: 5/11/2007
Model: BGGM2006



PROJECT DETAILS: SAN JUAN BASIN

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico West 3003
System Datum: Mean Sea Level

SITE DETAILS: SEC 22-T28N-R5W

Site Centre Latitude: 36° 38' 38.832 N
Longitude: 107° 20' 30.660 W
Positional Uncertainty: 0.0
Convergence: 0.29
Local North: Grid

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well SJ 28-5 #87M, Grid North
Vertical (TVD) Reference: RKB @ 6936.0ft
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: RKB @ 6936.0ft
Calculation Method: Minimum Curvature

WELL DETAILS: SJ 28-5 #87M

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	2054080.94	644187.20	36° 38' 38.832 N	107° 20' 30.660 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
#87M ICP	4146.0	-985.0	730.0	2053095.94	644917.20	36° 38' 29.055 N	107° 20' 21.765 W	Point
#87M BHL	8274.0	-985.0	730.0	2053095.94	644917.20	36° 38' 29.055 N	107° 20' 21.765 W	Circle (Radius: 150.0)