

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 06 2008

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 NM SF-079393 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. San Juan 27-5 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name DIST. 3
4. Location of Well Surf: Unit H (SENE), 2455' FNL & 785' FEL BH: Unit D (NWNW), 660' FNL & 660' FWL Surf: Latitude 36.603800° N Longitude 107.393516° W BH: Latitude 36.608737 N, Long 107.407235		9. Well Number #59G
		10. Field, Pool, Wildcat Basin Dakota
		11. Sec., Twn, Rge, Mer. (NMPM) Sec. 6, T27N, R5W API # 30-039-30545
14. Distance in Miles from Nearest Town 35 mile/Blanco		12. County Rio Arriba
		13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 660'		17. Acres Assigned to Well DK - 342.38 Acres (W/2) 319.69 Acres (E/2)
16. Acres in Lease 2,544.030 Acres		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 1176' from San Juan 27-5 #59M		
19. Proposed Depth 7623 TVD		20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6501' 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)		Hold C104 for Directional Survey and As Drilled plat 6/5/08 Date

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

Bond Numbers NMB-000015 and NMB-000089

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

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

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West 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
Energy, Minerals & Natural Resources Department

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

RECEIVED

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

*API Number 30-039-30549	*Pool Code 71599	*Pool Name BASIN DAKOTA
*Property Code 7454	*Property Name SAN JUAN 27-5 UNIT HZ	*Well Number 59G
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	*Elevation 6501'

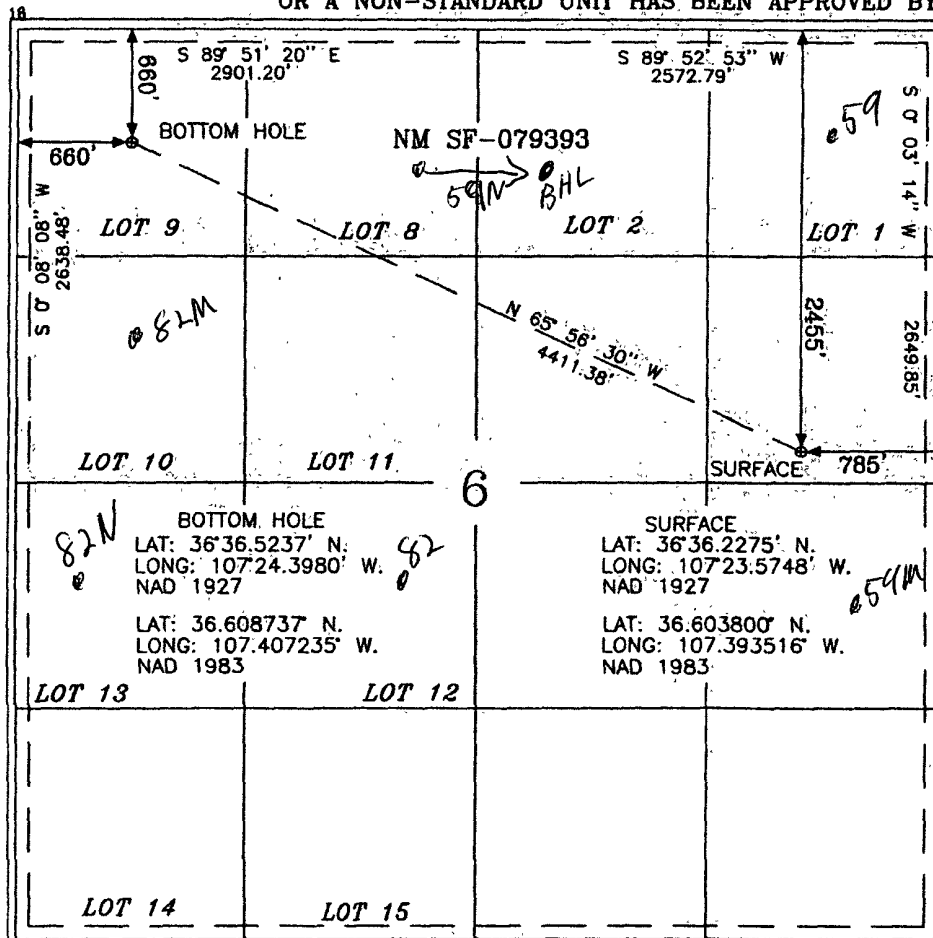
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	6	27-N	5-W		2455'	NORTH	785'	EAST	RIO ARRIBA

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
D	6	27-N	5-W	9	660'	NORTH	660'	WEST	RIO ARRIBA
Dedicated Acres OK 342.38 ACRES W 1/2 OK 319.69 ACRES E 1/2					Joint or Infill		Consolidation Code		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



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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature
Crystal Walker
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.

Date of Survey
4-28-08

Signature of Licensed Professional Surveyor

C. L. Russell

Certificate Number
15703

+ project area = Sec 6

COMPANY

BURLINGTON RESOURCES

Charge Code

WAN.RFE.PD08.67

WELL NAME

SAN JUAN 27 - 5 HZ # 59 G

DATE

4/30/2008

DUAL WELL

WELL NAME

TRIPLE WELL

WELL NAME

COORDINATES**SEC**

H 6

TNSHP

27 N

RANGE

5 W

LATITUDE

36 36.2275 N

LONGITUDE

107 23.5748 W

COUNTY

RIO ARRIBA

RECTIFIER

30/12

X

EXISTING**1 PHASE****3 PHASE**SOLARGROUND BED

X

240 V METER POLE

X

480 V METER POLED C CABLES

8

200'

A C CABLES

8

650'

PRIMARY POWER

JEMEZ

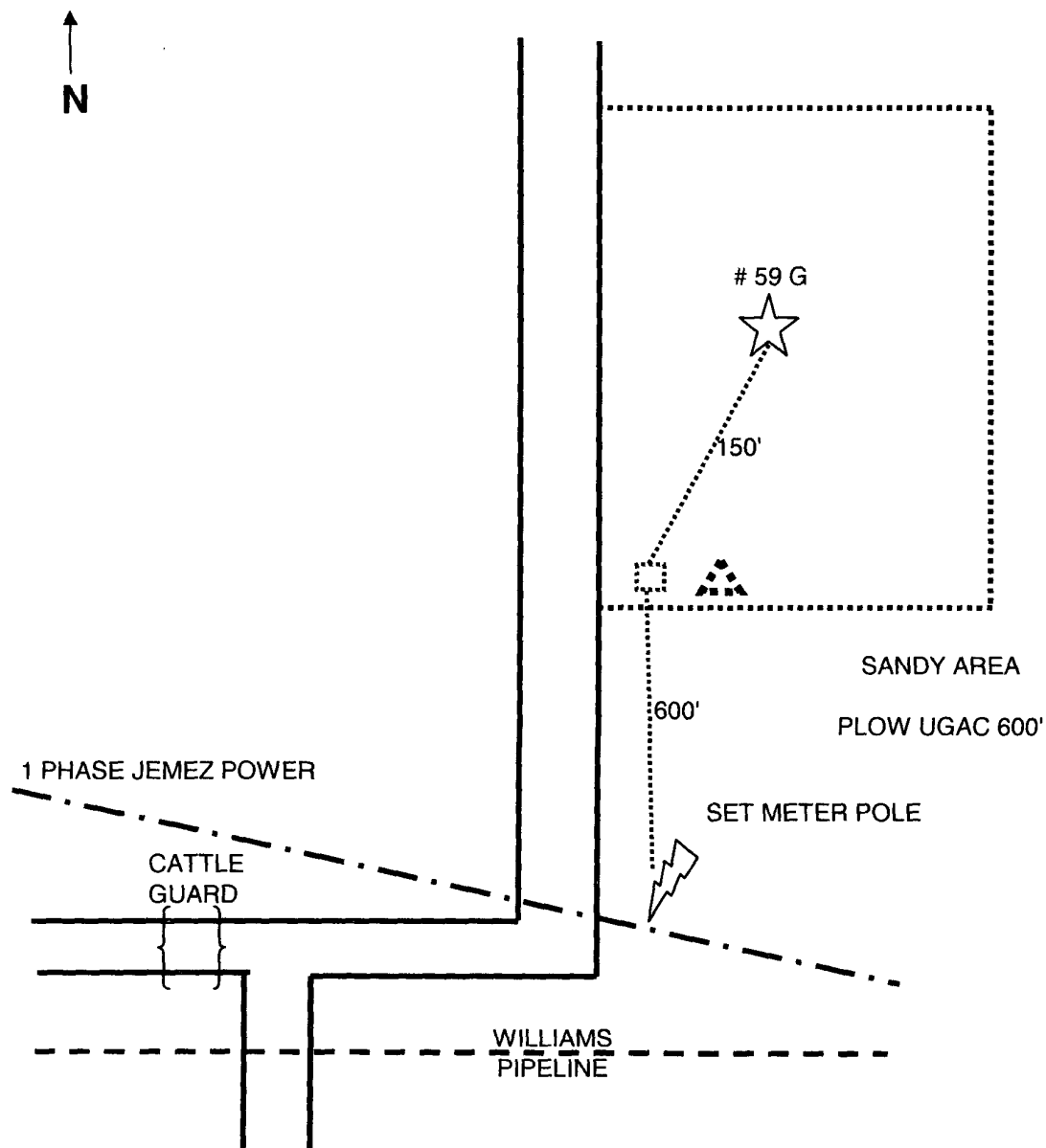
DISTANCE TO POWER

600'

UNDERGROUNDPUMPJACKWATER PUMP**COMMENTS**

install meter pole - plow UGAC to loc (650') - install rectifier system -

WELL NAME	SAN JUAN 27 - 5 # 59 G
-----------	------------------------



TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE 
RECT 	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE 
			FOREIGN PL 	CONOCO PL 	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT HZ 59G

DEVELOPMENT

Lease:		AFE #: WAN.CDR.8065		AFE \$: 6,050,100.00	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Phone:	
Res. Engineer:		Phone:		Prod. Engineer:	
				Phone:	
		Proj. Field Lead:		Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27

Latitude: 36.603791	Longitude: -107.392914	X:	Y:	Section: 06	Range: 005W
Footage X: 785 FEL	Footage Y: 2455 FNL	Elevation: 6501	(FT)	Township: 027N	
Tolerance:					

Location: Bottom Hole Datum Code: NAD 27

Latitude: 36.608728	Longitude: -107.406632	X:	Y:	Section: 06	Range: 005W
Footage X: 660 FWL	Footage Y: 660 FNL	Elevation:	(FT)	Township: 027N	
Tolerance:					

Location Type:	Start Date (Est.): 1/1/2008	Completion Date:	Date In Operation:
----------------	-----------------------------	------------------	--------------------

Formation Data:	Assume KB = 6516	Units = FT
-----------------	------------------	------------

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	215	6301	☐			215' 13-3/8" 48#/ft, H-40 STC casing at 215", circulate cement to surface.
OJO ALAMO	2596	3920	☐			
KIRTLAND	2777	3739	☐			
FRUITLAND	2937	3579	☐			Possible Gas
PICTURED CLIFFS	3301	3215	☐			
LEWIS	3380	3136	☐			
Intermediate Casing	3480	3036	☐			12-1/4" hole, 9-5/8" 36#/ft, J-55, LTC casing. Circulate cement to surface.
CHACRA	4252	2264	☐			
MASSIVE CLIFF HOUSE	4971	1545	☐			
MENEFEE	5142	1374	☐			
POINT LOOKOUT	5493	1023	☐	745		GAS
MANCOS	5969	547	☒			
UPPER GALLUP	6480	36	☐			
GREENHORN	7410	-894	☐			
GRANEROS	7432	-916	☐			
TWO WELLS	7501	-985	☐	1550		Gas
PAGUATE	7592	-1076	☐			
CUBERO	7613	-1097	☐			
CBRO AT 4400'	7623	-1107	☐			
Total Depth	7623	-1107	☐			8 3/4" hole, 7" 26ppf L-80 ltc casing. Cement to 100' inside previous shoe.
CBRO AT 4000'	7624	-1108	☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 27-5 UNIT HZ 59G

DEVELOPMENT

CBRO AT 0'	7625	-1109	☐	All CBRO depths are mid-point targets.
CBRO AT 3500'	7625	-1109	☐	
CBRO AT 3000'	7626	-1110	☐	
CBRO AT 500'	7626	-1110	☐	
PRODUCTION CASING	7626	-1110	☐	
CBRO AT 1000	7627	-1111	☐	8-3/4" hole, 7" casing, circulated cement to 200' above 9-5/8" shoe.
CBRO AT 1500'	7627	-1111	☐	
CBRO AT 2500'	7627	-1111	☐	
CBRO AT 2000'	7627	-1111	☐	

Reference Wells:		
Reference Type	Well Name	Comments
Production	27-5 62	

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mudlog 100' above GRHN to TD	

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

Comments:

Lease:		AFE #: WAN.CDR.8065			AFE \$: 6,050,100.00	
Field Name: hBR_SAN JUAN 27-5 UNIT		Rig: Aztec Rig 730		State: NM	County: RIO ARRIBA	API #:
Geologist:		Phone:		Geophysicist:		Phone:
Geoscientist:		Phone:		Prod. Engineer:		Phone:
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:

Primary Objective (Zones):	
Zone	Zone Name
R20076	DAKOTA(R20076)

Location: Surface		Datum Code: NAD 27			
Latitude: 36.603791	Longitude: -107.392914	X:	Y:	Section: 06	Range: 005W
Footage X: 785 FEL	Footage Y: 2455 FNL	Elevation: 6501	(FT)	Township: 027N	

Tolerance:					
Location: Bottom Hole		Datum Code: NAD 27			
Latitude: 36.608728	Longitude: -107.406632	X:	Y:	Section: 06	Range: 005W
Footage X: 660 FWL	Footage Y: 660 FNL	Elevation:	(FT)	Township: 027N	

description

surface location:

- 1) 7" casing depth, 2) top of productive interval
- 1) lateral TD, 2) end of productive interval

location (State of New Mexico)

T27N, R05W, Section 06, 2455' FNL & 785' FEL
 T27N, R05W, Section 06, 2220' FNL & 1311' FEL
 T27N, R05W, Section 06, 660' FNL & 660' FWL

MD ft	TVD ft
NA	NA
7981	7626
11815	7623

17-1/2" Hole and 13-3/8" Casing at 215'

casing description: 13-3/8" 48#/ft, H-40, STC

drilling fluid: water-based mud

cementing program: Cement to surface with 488 ft³ (volume includes 200% excess), mixed at 15.2 ppg with calcium chloride to accelerate, compressive strength 500 psi after 8 hours.

centralizers: one at 10' above shoe and one on each casing collar.

12-1/4" Hole and 9-5/8" Casing at 3480' (MD and TVD)

casing description: 9-5/8" 36#/ft, J-55, LTC

drilling fluid: water-based mud

cementing program: Cement to surface with 2401 ft³ (volume includes 125% excess in open hole) placing tail (or first stage) from shoe to 100' above Fruitland at 14.6 ppg and lead (or second stage) from 100' above Fruitland to surface at 12.1 ppg

centralizers: one at 10' above shoe, one per two joints to 100' above top of Fruitland, one per joint across Ojo Alamo.

8-3/4" Hole & 7" Casing at 7981' MD / 7626' TVD

casing description: 7" 26#/ft, L-80, LTC

drilling fluid: water-based mud

cementing program: Cement to 100' above 9-5/8" casing shoe with 1594 ft³ (volume includes 50% excess in open hole) mixed at 11.5 ppg with tail slurry of 12.5 ppg (minimum) from shoe to base of Mancos.

centralizers: tandem-rise, one at 10' above shoe, one at 30' above shoe, one at 10' above float collar and one each on casing collars of 2nd, 3rd, 4th and 5th joints, bow centralizers, 1 per 2 joints from 4900' to 5200' (Cliffhouse) and from 5400' to 6000' (Point Lookout).

Lateral: 6-1/8" Hole to 11815' MD

casing description: no casing

drilling fluid: nitrified water



Project: SAN JUAN BASIN
Site: SEC 6-T27N-R5W
Well: SJ 27-5 HZ #59G
Wellbore: Original Hole
Design: Plan #2

ConocoPhillips

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	7131.0	0.00	0.00	7131.0	0.0	0.0	0.00	0.00	0.0	
3	7797.7	80.00	294.05	7601.2	160.8	-360.3	12.00	294.05	394.6	
4	7897.7	80.00	294.05	7618.6	200.9	-450.2	0.00	0.00	493.0	
5	7981.0	90.00	294.05	7625.8	234.7	-525.9	12.00	0.00	575.9	
6	8155.1	89.89	294.05	7626.0	305.7	-684.9	0.06	-180.00	750.0	59G TGT #1
7	8159.0	89.77	294.05	7626.0	307.3	-688.5	3.00	180.00	753.9	
8	8405.1	89.77	294.05	7627.0	407.5	-913.2	0.00	0.00	1000.0	59G TGT #2
9	8412.8	90.00	294.05	7627.0	410.7	-920.2	3.00	0.00	1007.7	
10	8905.1	90.00	294.05	7627.0	611.3	-1369.8	0.00	0.00	1500.0	59G TGT #3
11	9405.1	90.00	294.05	7627.0	815.1	-1826.4	0.00	0.00	2000.0	59G TGT #4
12	9905.1	90.00	294.05	7627.0	1018.8	-2283.0	0.00	0.00	2500.0	59G TGT #5
13	9908.8	90.12	294.05	7627.0	1020.4	-2286.4	3.00	0.00	2503.8	
14	10405.1	90.12	294.05	7626.0	1222.6	-2739.6	0.00	0.00	3000.0	59G TGT #6
15	10905.1	90.12	294.05	7625.0	1426.4	-3196.2	0.00	0.00	3500.0	59G TGT #7
16	11405.1	90.12	294.05	7624.0	1630.1	-3652.8	0.00	0.00	4000.0	59G TGT #8
17	11815.1	90.16	294.07	7623.0	1797.3	-4027.2	0.01	20.50	4410.1	SJ 27-5 HZ #59G PBLH

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

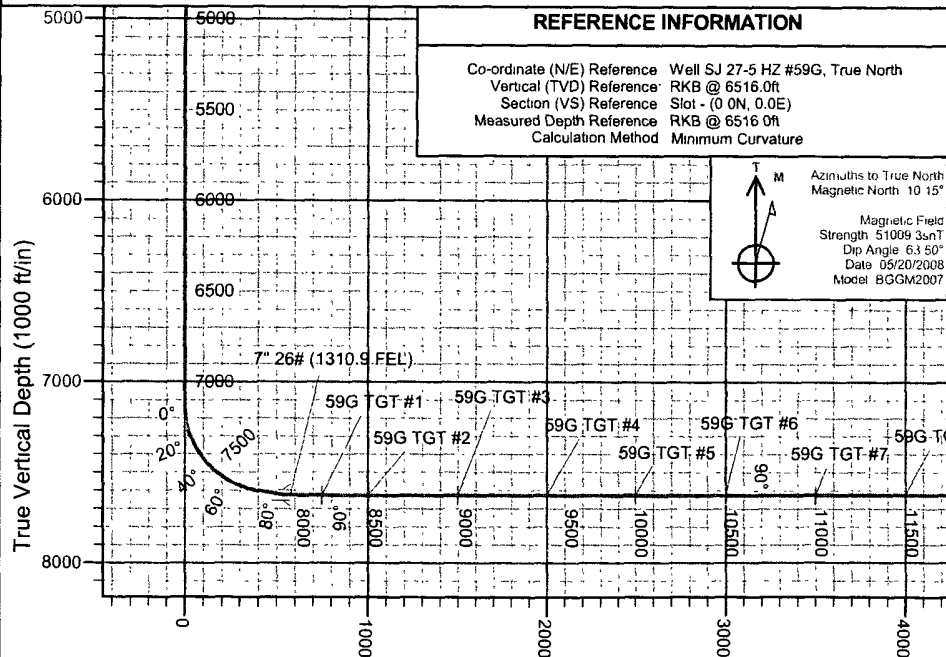
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
SJ 27-5 HZ #59G PBLH	7623.0	1797.3	-4027.2	2041105.94	625238.85	Point
59G TGT #8	7624.0	1630.1	-3652.8	2040940.49	625614.05	Point
59G TGT #7	7625.0	1426.4	-3196.2	2040738.83	626071.54	Point
59G TGT #1	7626.0	305.7	-684.9	2039629.70	628587.76	Point
59G TGT #6	7626.0	1222.6	-2739.6	2040537.17	626529.04	Point
59G TGT #2	7627.0	407.5	-913.2	2039730.53	628359.01	Point
59G TGT #3	7627.0	611.3	-1369.8	2039932.19	627901.52	Point
59G TGT #4	7627.0	815.1	-1826.4	2040133.85	627444.03	Point
59G TGT #5	7627.0	1018.8	-2283.0	2040335.51	626986.53	Point

REFERENCE INFORMATION

Co-ordinate (N/E) Reference Well SJ 27-5 HZ #59G, True North
Vertical (TVD) Reference RKB @ 6516.0ft
Section (VS) Reference Slot - (0.0N, 0.0E)
Measured Depth Reference RKB @ 6516.0ft
Calculation Method Minimum Curvature



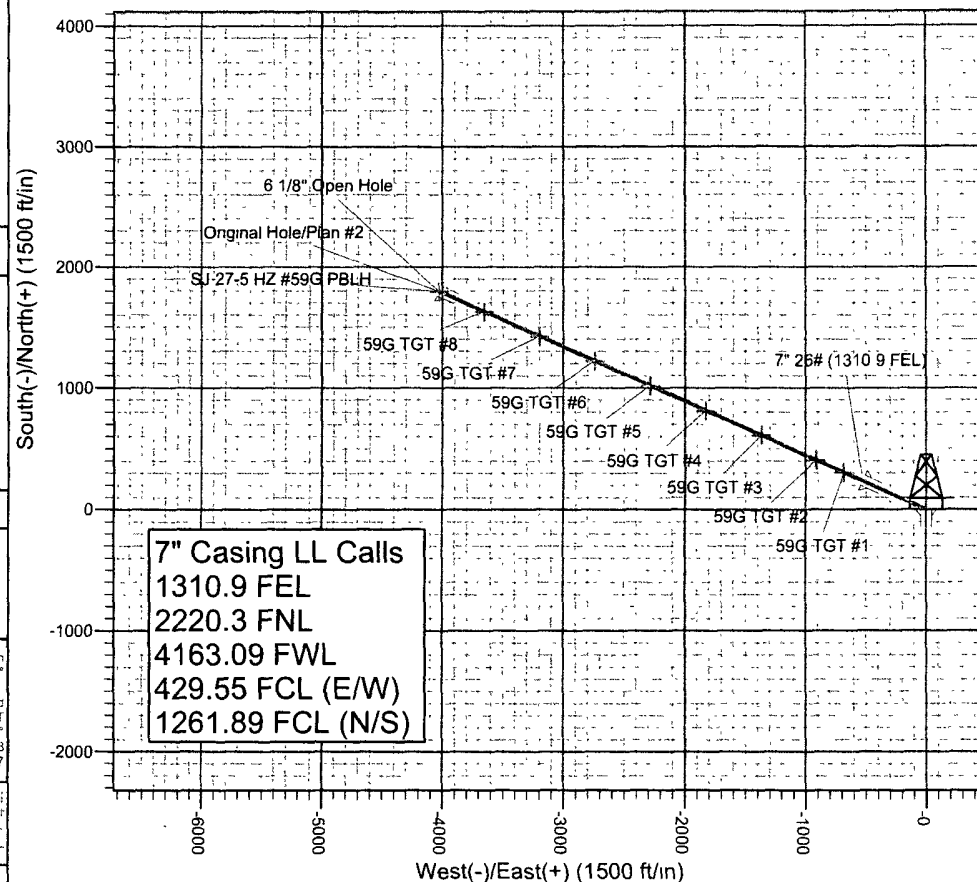
Azimuths to True North
Magnetic North 10.15°
Magnetic Field
Strength 51009.3nT
Dip Angle 63.50°
Date 05/20/2008
Model BGGM2007



Vertical Section at 294.05° (1000 ft/in)

WELL DETAILS: SJ 27-5 HZ #59G

Ground Level: 6501.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 2039327.22 629274.00 36° 36' 13.651 N 107° 23' 34.487 W



7" Casing LL Calls
1310.9 FEL
2220.3 FNL
4163.09 FWL
429.55 FCL (E/W)
1261.89 FCL (N/S)

PROJECT DETAILS

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 6-T27N-R5W

Rio Arriba County NM
Site Centre Latitude 36° 36' 13.651 N
Longitude 107° 23' 34.487 W
Positional Uncertainty 7.5
Convergence 0.26
Local North True

