UNITED STATES

RCVD FEB21'07 OIL CONS. DIV.

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	Type of Work	5. Lease Number
	DRILL	nmsf-080516-b RECEIV
		Unit Reporting Number ARMIN
		Unit Reporting Number FARMING
٠.	Type of Well	6. If Indian, All. or Tribe
	GAS	
	Operator	7. Unit Agreement Name
	BURLINGTON	
	RESOURCES Oil & Gas Company, LP	San Juan 28-5 Unit
	Address & Phone No. of Operator	8. Farm or Lease Name
	PO Box 4289, Farmington, NM 87499	
		9. Well Number
	(505) 326-9700	#31B
	Location of Well	10. Field, Pool, Wildcat
	nit O (SWSE), 785' FSL & 2380' FEL	Basin DK / Blanco MV
	- Unit B (NWNE), 575' FNL & 2130' FEL,	Edding and the state of the sta
		11. Sec., Twn, Rge, Mer. (NMPM)
Surf -	Latitude 36 ^o 40.2361'N	Surf - Sec. 12, T28N, R05W
	Longitude 107 ⁰ 18.4747'W	Est. BH - Sec. 13, T28N, R05W
st. BH	– Latitude – 36.40.0118'N Longitude – 107.18.4229'W	API# 30-039- 27823
·	Distance in Miles from Nearest Town	12. County 13. State
•		Rio Arriba NM
<u> </u>	Distance from Proposed Location to Nearest Property	or Lease Line
	575 '	49 Anna Analysia Mall
.	Acres in Lease	17. Acres Assigned to Well See plat
	Distance from Proposed Location to Nearest Well, Dr	g, Compl, or Applied for on this Lease
	48' SJ 28-5 #102E	
),	Proposed Depth	20. Rotary or Cable Tools
<u>Q</u> .	Vertical Depth - 8808'	Rotary
****	Elevations (DF, FT, GR, Etc.) 7305′ GL	22. Approx. Date Work will Start
 3.	Proposed Casing and Cementing Program	d'. d'
	See Operations Plan attached	HOLD CILL FOR divection
	(i), (i)	,
,	Authorized by: Patsy (lus)	3/20/06
i.	Sr. Regulatory Specialist	
		Dace
RMIT	NO AP	PROVAL DATE
	AXIII m. Mind and	15/1 2/2/1
PPRO	VED BY STILLE	ACCU DATE ALATE
	9	
rchaec	plogical Report attached	
		NOTIFY AZTEC OOD IME TO WITNESS GS
reate	ned and Endangered Species Report attached his format is issued in lieu of U.S. BLM Form 3160-3	MOTION ATTENDED NOTE ACTED DOWN

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

3/9

This action is subject to technical and procedural review pursuant to 43 CFR 3165 3 and appeal pursuant to 43 CFR 3165.4

DISTRICT f , 1625 N. French Dr., Hobbs, N.M. 86240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

Submit to Appropriate District Office

DISTRICT II 611 South First, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87505

2005 MAR 20 PM 2

53 — SAMENDED REPORT

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

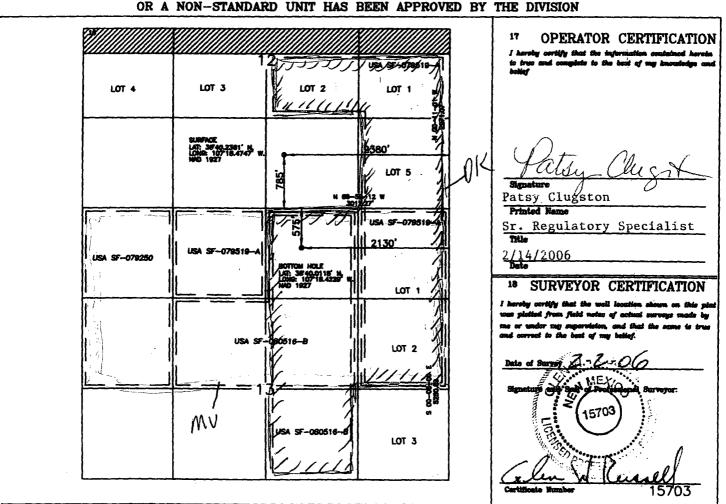
WELL LOCATION AND ACREAGE DEDICATION PLATINGS

¹ API Number	1000	Pool Code	Pool Name				
¹ API Number 30-039- 2	1823	72319 / 71599	Blanco Mesaverde / Basin Dakota	1			
⁴ Property Code		Property Name					
7460		SAN JUAN 28-5 UNIT					
OGRID No.		* Elevation					
14538		BURLINGTON RESOURCES	OIL AND GAS COMPANY LP	7305'			

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
0	12	28-N	5-W		785'	SOUTH	2380'	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/Vest line	County
В	13	28-N	5-W		575'	NORTH	2130'	EAST	RIO ARRIBA
Dedicated Acre	3/1 sec	.13	¹⁹ Joint or	indili	¹⁶ Consolidation C	ode	"Order No.		
Pledicated Acre MV - N See attac	3428	30					Q	L-2948-	Unittoni
See attac	nea				L			170L170	01011 10 1015

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



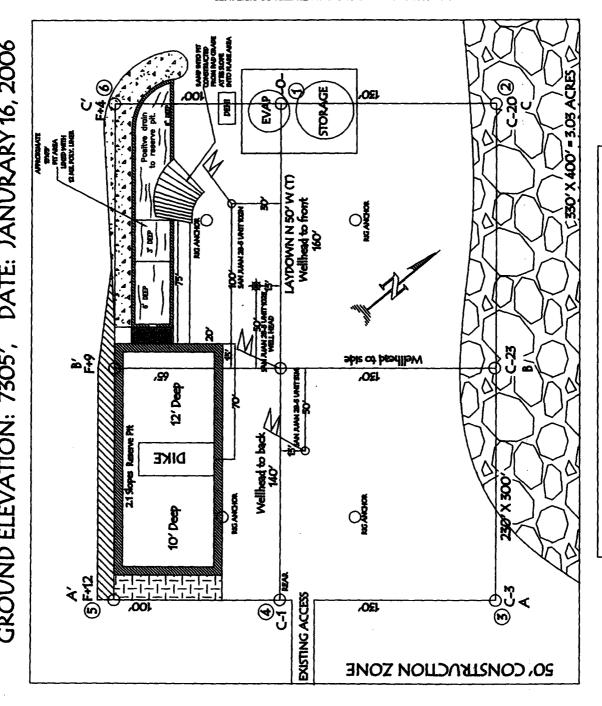
Submit 3 Copies To Appropriate Dist	Stati	e of New Mexico		Form C-103
<u>District I</u> 1625 N. French Dr., Hobbs, NM 882		nerals and Natural Resources	WELL API NO.	May 27, 2004
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 8 <u>District III</u>		SERVATION DIVISION South St. Francis Dr.	5. Indicate Type of Lease STATE	FEE
1000 Rio Brazos Rd., Aztec, NM 87 District IV	410 Sai	nta Fe, NM 87505	6. State Oil & Gas Lease N	No.
1220 S. St. Francis Dr., Santa Fe, NI				- SF-080516-B
SUNDRY N (DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPL PROPOSALS.)		PEN OR PLUG BACK TO A	7. Lease Name or Unit Agr San Juan	28-5 Unit
1. Type of Well: Oil Well Gas Well	X Other		8. Well Number #3	1B
2. Name of Operator	DESCRIBER OF RECAS	COMPANY I D	9. OGRID Number	538
3. Address of Operator	RESOURCES OIL & GAS		10. Pool name or Wildcat	
3401 E. 30TF 4. Well Location	I STREET, FARMINGTO	N, NM 87402	Basin DK /	Blanco'MV
Unit Letter O	758' feet from the		2380' feet from the	East line
Section 12	Township 11. Elevation (Show whe	ther DR, RKB, RT, GR, etc.)	NMPM Cou	inty Rio Arriba
Pit or Below-grade Tank Application	or Closure	5705'		
Pit type New Drill Depth to Gr		nnce from nearest fresh water well	>1000 Distance from near	rest surface water
Pit Liner Thickness: 12	mil Below-G	Grade Tank: Volume	bbls; Construction Mate	erial
		to Indicate Nature of No	tice, Report or Other D	ata
	OF INTENTION TO:	DON DEMESTIA	SUBSEQUENT REP	_
PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANI CHANGE PLANS MULTIPLE COMPI	COMMEN	CE DRILLING OPNS.	P AND A
OTHER:	New Drill	X OTHER:		
13. Describe proposed or con	mpleted operations. (Clear	ly state all pertinent details and	give pertinent dates including	r astimated data
		For Multiple Completions: Atta		
of starting any proposed or recompletion.				
or recompletion.				
or recompletion. New Drill, Lined: Burlington Resources proposes Ecosphere's risk ranking crites Operation Procedures dated No	work). SEE RULE 1103. s to construct a new drilling in, the new drilling pit will ovember 11, 2004 on file at	For Multiple Completions: Atta	pit. Based on Burlington's in ington's Revised Drilling / Wof the vent/flare pit will be dea	sed completion sterpretation of the orkover Pit Construction / signed to manage fluids and
or recompletion. New Drill, Lined: Burlington Resources proposes Ecosphere's risk ranking crites Operation Procedures dated No	work). SEE RULE 1103. s to construct a new drilling ria, the new drilling pit will ovember 11, 2004 on file at r the risk ranking criteria.	For Multiple Completions: Atta	pit. Based on Burlington's in ington's Revised Drilling / Wof the vent/flare pit will be dea	sed completion sterpretation of the orkover Pit Construction / signed to manage fluids and
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or recompletion. New Drill, Lined: Burlington Resources proposes Ecosphere's risk ranking crites Operation Procedures dated Nothat portion will be lined as pe	s to construct a new drilling ia, the new drilling pit will ovember 11, 2004 on file at the risk ranking criteria. ugust 2, 2004 on file at the	g pit and an associated vent/flare be a lined pit as detailed in Burl the NMOCD office. A portion Burlington Resources anticipate NMOCD office.	pit. Based on Burlington's in ington's Revised Drilling / Wof the vent/flare pit will be des closing these pits according	sed completion terpretation of the orkover Pit Construction / signed to manage fluids and to the Drilling / Workover
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Type or print name
For State Use Only TITLE DEPUTY OR & GAS INSPECTOR, DIST. & APPPROVED BY Conditions of Approval (if any):

MOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PHY WORKING DAYS PRIOR TO CONSTRUCTION.

HOTE: VECTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR VANMARKED BURIED

HOTE: VECTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR VANMARKED BURIED.



LONGITUDE: 107-18.4747' W NAD27

LATITUDE: 36' 40.2361' N

785' FSL & 2380' FEL RIO ARRIBA COUNTY

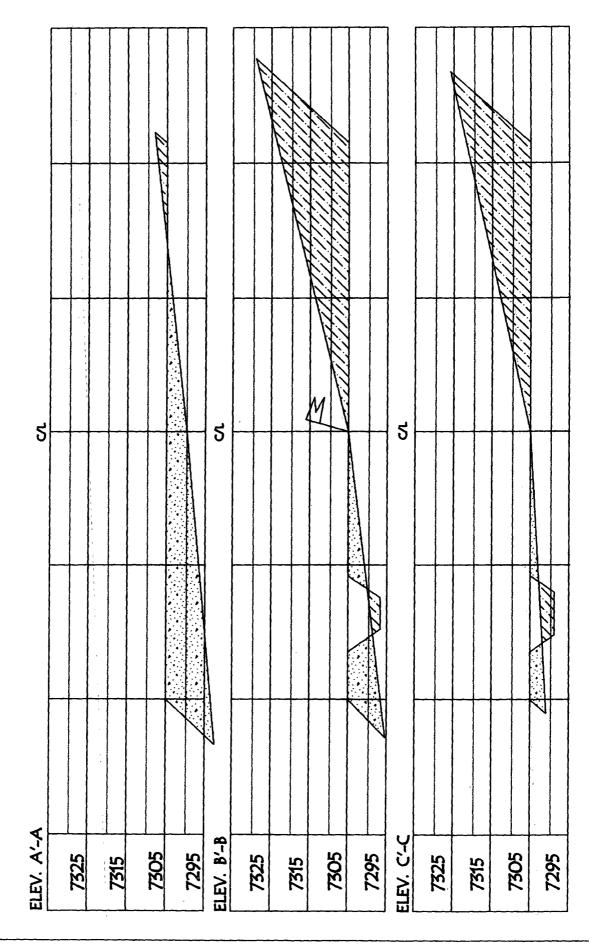
- & GAS COMPANY

BURLINGTON RESOURCES OII

SECTION 12,

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND I' ABOVE SHALLOW SIDE).

BURLINGTON RESOURCES OIL & GAS COMPANY LP SAN JUAN 28-5 UNIT #318, 785' FSL & 2380' FEL SECTION 12, T-28- N, R-5-W, NMPM, RIO ARRIBA COUNTY, NM GROUND ELEVATION: 7305', DATE: JANUARY 16, 2006



CONTRACTOR SHOVID CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION. NOTE: VECTOR SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

San Juan 28-5 Unit #31B Acres assigned to Well

Dakota – Section 13: W/2 NE/4, NW/4 SE/4 – 120 acres

Section 13: Lots 1 & 2

Section 12: Lots 1, 2 & 5 - 222.30 acres

343,30 total acres dedicated to Dakota

MV -Section 13 - Lots 1-2, & NENW - 143.07 acres

W2NW -

80.00 acres

W2NE, SENW

120.00 acres

343.07 acres

SAN JUAN 28-5 UNIT #31B OPERATIONS PLAN

Well Name:

San Juan 28-5 Unit #31B

Location

Rio Arriba County, New Mexico

Surface:

785' FSL, 2380' FEL, Section 12, T-28-N, R-5-W

Latitude 36° 40.236'N, Longitude 107° 18.4746'W

Bottom Hole:

575' FNL, 2130' FEL, Section 13, T-28-N, R-5-W

Latitude 36° 40.046'N, Longitude 107° 18.423'W

Formation

Blanco Mesa Verde/Basin Dakota

Elevation

7305'GI

Formation 7305 GL Formation Tops Top (TVD) Top (TMD)							
Top (TVD)	Top (TMD)	<u>Contents</u>					
San Jose							
3616'	3755'	aquifer					
3781'	3932'	gas					
4086'	4257'	gas					
4290'	4475'	gas					
4371'	4561'	gas					
4915'	5142'	gas					
5282'	5520'	gas					
5869'	6348'	gas					
6140'	6379'	gas					
6438'	6677'	gas					
6939'	7178'	gas					
7667'	7906'	gas					
8407'	8646'	gas					
8464'	8703'	gas					
8529'	8768'	gas					
8584'	8823'	gas					
8634'	8873'	gas					
8704'	8943'						
8719'	8958'						
	Top (TVD) San Jose 3616' 3781' 4086' 4290' 4371' 4915' 5282' 5869' 6140' 6438' 6939' 7667' 8407' 8464' 8529' 8584' 8634' 8704'	Top (TVD) Top (TMD) San Jose 3616' 3616' 3755' 3781' 3932' 4086' 4257' 4290' 4475' 4371' 4561' 4915' 5142' 5282' 5520' 5869' 6348' 6140' 6379' 6438' 6677' 6939' 7178' 7667' 7906' 8407' 8646' 8464' 8703' 8529' 8768' 8584' 8823' 8634' 8873' 8704' 8943'					

Logging Program

Cased Hole - CBL-GR- TD to surface

Open Hole - None

Mud Program

Interval (TMD)	<u>Type</u>	Weight	<u>Vis.</u>	Fluid Loss
0- 350'	Spud	8.4-9.0	40-50	no control
350 - 5670'	Non-dispersed	8.4-9.0	30-60	less than 8
5670'- 8958'	Air/Air Mist/Nitrogen	n/a	n/a	n/a

Drilling (Reference Plot #1)

Surface Hole '

Drill to surface casing point of 350' and set 9 5/8" casing.

Intermediate Hole

Mud drill to kick off point of 1200'. At this point the well will be directionally drilled by building 4.0 degrees per 100' with an azimuth of 169.19 degrees. The end of the build will be at a TVD of 1700', a TMD of 1711', a reach of 90', and an angle of 20.44 degrees. This angle and azimuth will be held to a TVD of 4932', a TMD of 5160', and a reach of 1295'. At this point the well will be drilled with a drop of 4.0 degrees per 100'. The end of the drop will be at a TVD of 5432', a TMD of 5670', a reach of 1385', and an angle of 0.0 degrees. 7" casing will be set at this point.

Production Hole

From the shoe of the intermediate string, the well will be drilled vertically with an air hammer to a TMD of 8958' (TVD of 8719'). 4 ½" casing will be set at this point.

Materials

Casing program

Hole Size	Interval (TMD)	Csg. Size	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 350'	9 5/8"	32.3#	H-40
8 3/4"	350' - 5670'	7"	23#	L-80
6 1/4"	5870' - 8958'	4 1/2"	11.6#	L-80

Tubing Program

Hole Size	Interval (TMD)	Csg. Size	<u>Weight</u>	<u>Grade</u>
2 3/8"`	0' - 8958'	2 3/8"	4.7#	J-55

Wellhead Equipment

9 5/8" x 7" X 4 1/2" x 2 3/8" - 11" (2000 psi) wellhead assembly

Cementing:

9 5/8" surface casing conventionally drilled: 200% excess cement to bring cement to surface
Run 376 ft³ (294 sks) Type III cement with 3% CaCl₂ and 1/4 pps celloflake (1.28 sks/ ft³). Wait on cement appropriate time until cement achieves 250 psi compressive strength at 60° F prior to nipple up of BOPE. Wait on cement for 8 hrs for conventionally set holes before pressure testing or drilling out from under surface.

7" production casing: 50% excess cement to bring cement to surface Lead with 1154 ft³ (542 sks) Premium Lite w/ 3% CaCl₂, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft³). Tail with 124 ft³ (90 sks) Type III cmt. w/ 1% CaCl₂, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft³). If cement does not circulate to surface, a CBL or a temperature survey will be run to determine TOC.

4 ½" production casing: 30% excess cement to achieve 100' overlap with intermediate casing
Run 450 ft³ (227 sks) Premium Lite HS FM + 0.25pps Cello-Flake, 0.3% CD-32, 6.25pps LCM-1, 1% FL-52 (1.98 sks/ft³).

Saw tooth guide shoe on bottom. Bowspring centralizers will be run in accordance with Onshore Order #2.

BOP and Tests:

Surface to production TD – 11", 2000 psi double gate BOP stack (Reference Figure #1).

Prior to drilling out surface casing, test BOPE and casing to 600 psi for 30 minutes.

Surface to Total Depth – choke manifold (Reference Figure #2).

Pipe rams will be actuated at least once each day and blind rams will be actuated once each trip to test proper functioning. A Kelly cock valve and drill string safety valves to fit each drill string will be maintained and available on the rig floor.

BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five minutes and a high pressure test requirement held for ten minutes as described in Onshore Order No. 2 or otherwise noted in the APD. A successful BOPE test using a test plug is considered when no pressure drop occurs over the duration of the test. Test gauges and recorders must be of the proper range and resolution commensurate with the authorized test pressure. Where the intermediate casing strings are used, only one BOPE test will be necessary contingent upon the test being conducted to the highest approved test pressure to which BOPE will be exposed. Casing pressure tests must be held for 30 minutes with no more than 10 percent pressure drop during the duration of the test.

Additional Information:

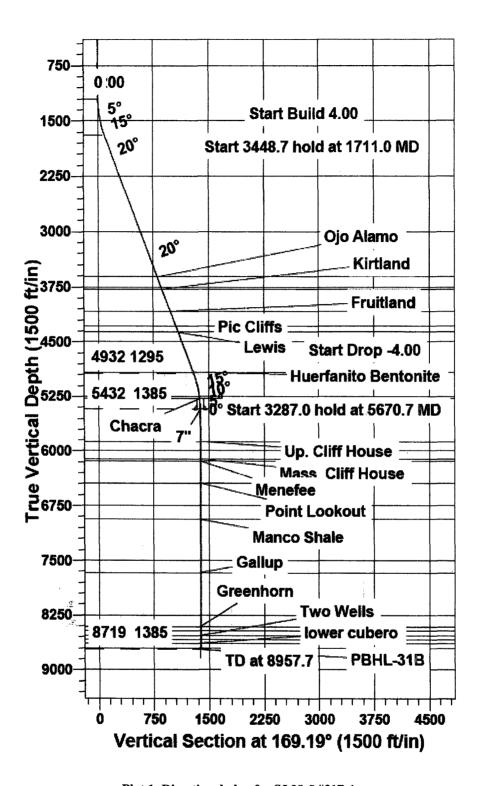
- · This gas is dedicated.
- New casing will be utilized.
- Pipe movement (reciprocation) will be done if hole conditions permit.
- No abnormal pressure zones are expected.
- BHP is expected to be 2000 psi.

Drilling Engineer

Date

3/20/04





Plot 1: Directional plan for SJ 28-5 #31B 1



Project: SAN JUAN, NM Site: SEC 12-T28N-R5W Well: 28-5 UNIT #31B

Wellbore: OH

Plan: Plan #1 (28-5 UNIT #31B/OH)

BURLINGTON' RESOURCES

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	-
1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
1711.0	20.44	169.19	1700.2	-88.6	16.9	4.00	169.19	90.2	
5159.7	20.44	169.19	4931.8	-1271.6	242.8	0.00	0.00	1294.5	
5670.7	0.00	359.69	5432.0	-1360.2	259.7	4.00	180.00	1384.7	CSG. PT. 31B
8957.7	0.00	359.69	8719.0	-1360.2	259.7	0.00	359.69	1384.7	PBHL-31B

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

Name	טעו	+N/-S	+E/ <i>-</i> W	Northing	Easting	Latitude Longitude:	Shape
CSG. PT. 31B	5432.0	-1360.2	259.7	2062413.40	654351.21	36° 40' 0.696 N107° 18' 25.380 W	Point
PBHL-31B	8719.0	-1360.2	259.7	2062413.35	654351.18	36° 40' 0.695 N107° 18' 25.380 W	Point

PROJECT DETAILS: SAN JUAN, NM

Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

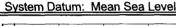
Zone: New Mexico West 3003

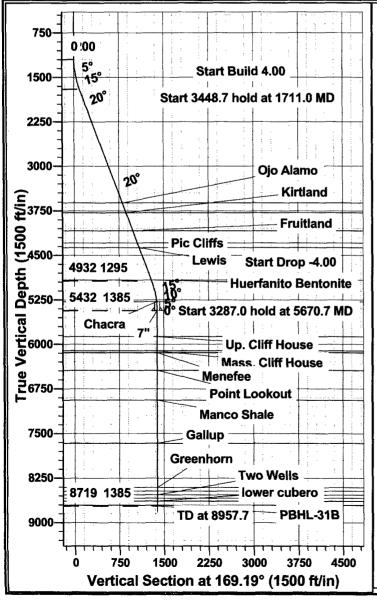
WELL DETAILS: 28-5 UNIT #31B

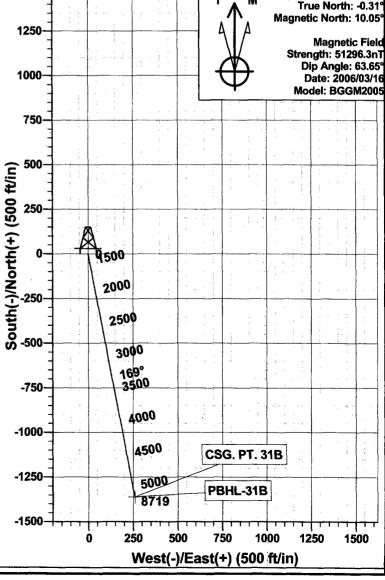
Northing 2063773.55 **Ground Level:** 7305.0

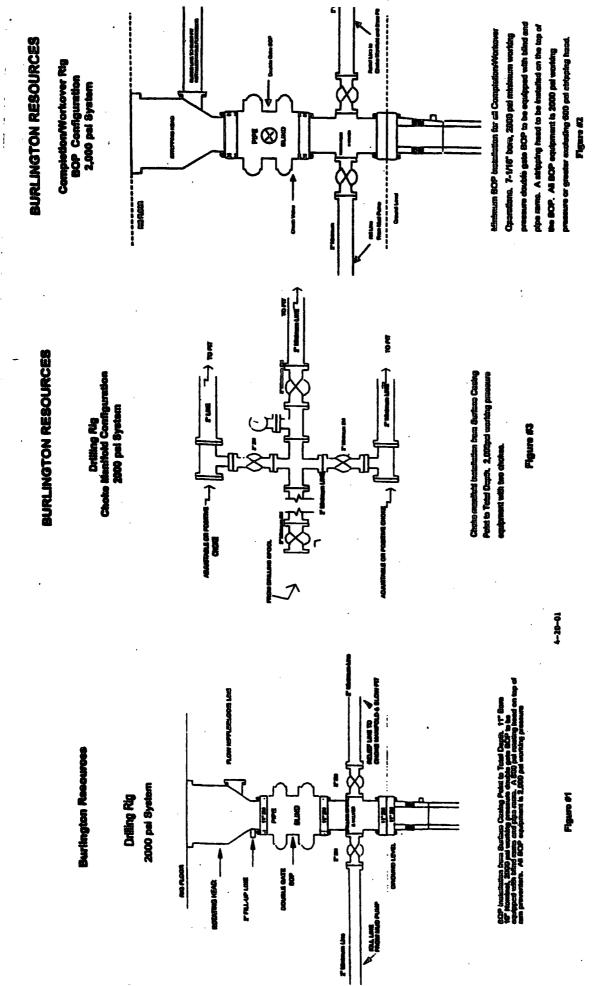
Easting Latittude Longitude 654091.53 36° 40' 14.160 N107° 18' 28.476 W

Azimuths to Grid North









10-02-4

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