DIST. 3

# **UNITED STATES** DEPARTMENT OF THE INTERIOR

**BUREAU OF LAND MANAGEMENT** APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK one man 20 5. Lease Number 1a. Type of Work NMSF-079519-ARECEIVED DRILL 070 FARMINGTON NM NMNM 0784114 6. If Indian, All. or Tribe 1b. Type of Well GAS 2. 7. Unit Agreement Name Operator BURLINGTON RESCURCES Oil & Gas Company San Juan 28-5 Unit 3. Address & Phone No. of Operator 8. Farm or Lease Name PO Box 4289, Farmington, NM 87499 San Juan 28-5 9. Well Number (505) 326-9700 #31M NSP-R-2948 4. Location of Well 10. Field, Pool, Wildcat Unit O (SWSE), 765' FSL, 2335' FEL Surface Blanco Mesaverde/ Basin Dakota Unit P (SESE), 1175' FSL, 1010' FEL Bottom 11. Sec., Twn, Rge, Mer. (NMPM) Latitude 360 40.2327'N Sec. 12, T28N, R5W Longitude 1070 18.4650'W API # 30-039- 29853 14. Distance in Miles from Nearest Town 13. State 12. County 38.2 miles to Post Office in Blanco, NM Rio Arriba NM 15. Distance from Proposed Location to Nearest Property or Lease Line 7651 16. Acres in Lease 17. Acres Assigned to Well A / 82 299.04 MV/DR DK-342.30 18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 100' - San Juan 28-5 Unit #102E 19. **Proposed Depth** 20. Rotary or Cable Tool 8755 Rotary 21. Elevations (DF, FT, GR, Etc.) 22. Approx. Date Work will Start 7305'GL **Proposed Casing and Cementing Program** 23. See Operations Plan attached 3-20-06 24. Authorized by: Regulatory Compliance Assistant II

PERMIT NO.

APPROVED BY

APPROVAL DATE

**Archaeological Report attached** 

Threatened and Endangered Species Report attached

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

IN TIME TO WITNESS CEG ECE MUT 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.

HOLD C104 FOR LINCOL WAR SUVEL

NOTIFY AZTEC OCD

This action is subject to form as procedural for ewipursus in and approximations share to find

5055994062 SJD-XRX341-05-FAX

994062 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DESTRICT II 811 South First, Artesia, N.M. 88210

DESTRICT HI 1000 Rio Brazos Rd., Axioc, N.M. 87410

2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT RCVD FEB23'07

*API Number 30-039-	9853	<sup>2</sup> Peol Code 72319/71599	Blanco Mesaverde		IL CONS. DIV.
Property Code	T		operty Neura	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a DICT O
7460		san juan	1 28-5 UNIT		31M
OGRID No.		•01	perutor Name		<sup>o</sup> Elevation
14538		BURLINGTON RESOURCE	S OIL AND GAS COMPANY L	P	7305′

10 Surface Location

UL ear lot no.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
0	12	28-N	5-W		765'	SOUTH	2335'	EAST	RIO ARRIBA
			11 Bott	om Hole	Location 1	Different Fro	om Surface		
THE or lot no	Santing	Tomoshin	Dames	Total Tilber	Bast from the	Month /South Hose	Peak from the	Buch / Ward Hone	Committee

DE or lot no. Section Township Range Lot ion Peet from the North/South line Peet from the Rest/Vest line County

P 12 2B-N 5-W 1175' SOUTH 1010' EAST RIO ARRIBA

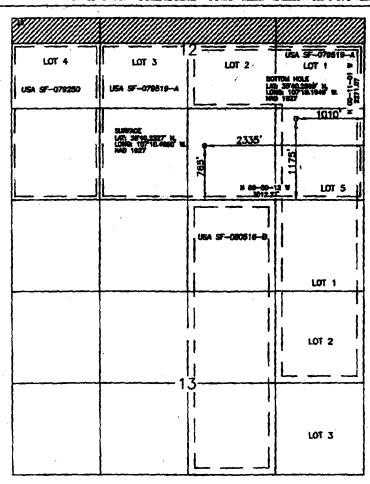
"Dedicated Acres

DK-Sec 12, Lots 1,2,45 Jec. 13 - Lots 1 +2 W/2 NE/4 + N W/4 SE/4 - 342,30 acres

DK 299-04 ac 8211

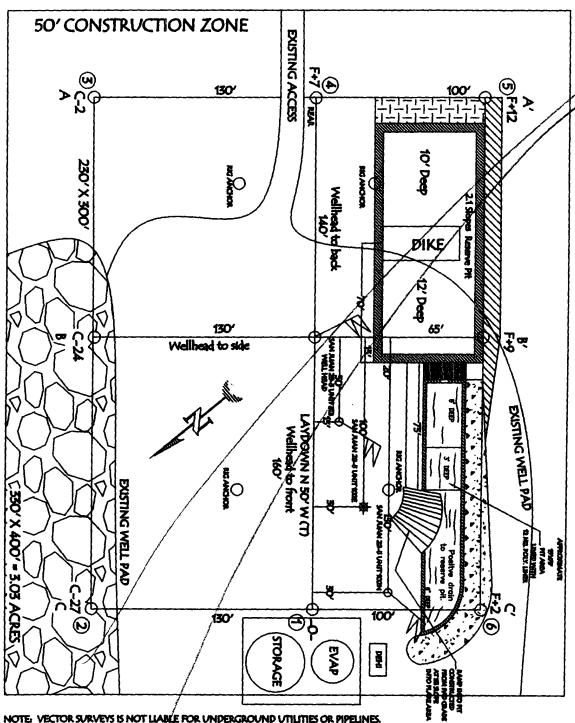
DK NSP ~ R - 2948

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  [ havely carely that the information candidated havels, to true and complete to the best of my inequiring and ballay
Market Many
Signature
Philana Thompson
Regulatory Assistant III
02/14/2006 Date
18 SURVEYOR CERTIFICATION
I havely certify that the well location shows on this plat was pintled from fishi noise of columb surveys made by one or under my supervision, and that the same to true and correct to the best of my boiley.
Date of Storrey Lis 2000
W. MEXIO
Signature and Sid ad resembled Sproyers
15703
G Com It Kussell

Office	te District	State of New	Mexico		F C 102
District I	F:	nergy, Minerals and N			Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, N.				WELL API NO.	-039- <b>29853</b>
District II 1301 W. Grand Ave., Artesia,	NM 88210 <b>O</b>	IL CONSERVATI	ON DIVISION	5. Indicate Type of Lease	-039- <b>Gr7000</b>
District III		1220 South St. I	Francis Dr.	STATE	FEE
1000 Rio Brazos Rd., Aztec, N	IM 87410	Santa Fe, NM	I 87505	6. State Oil & Gas Lease N	lo.
<u>District IV</u> 1220 S. St. Francis Dr., Santa	Fe NM 87505	,		NMSF-0	70510. A
	RY NOTICES AND	7. Lease Name or Unit Agre			
(DO NOT USE THIS FORM FOR					
DIFFERENT RESERVOIR. USE '	"APPLICATION FOR PE	RMIT" (FORM C-101) FOR S	SUCH	San Juan	28-5 Unit
1. Type of Well:				8. Well Number	
Oil Well Gas	Well X Other			31	M
2. Name of Operator	TON RESOURCES	OIL & GAS COMPAN	/ T D	9. OGRID Number	:38
3. Address of Operator	TON RESOURCES	OIL & GAS COMI AIN	<u> </u>	10. Pool name or Wildcat	,58
	30TH STREET, FA	RMINGTON, NM 8740	2	Blanco Mesavero	le/ Basin Dakota
4. Well Location Unit Letter O	: 765	feet from the Sou	ıth line and	2335 feet from the	East line
Section 12		Township 28N	Rng 5W		
	11. Elevation	(Show whether DR, RK	· · ·		
Pit or Below-grade Tank Applica	tion or Closu	730 ire	)3,		
Pit type new drill Deptl	h to Groundwater	<100' Distance from near	est fresh water well	>1000' Distance from near	rest surface water <1000'
Pit Liner Thickness:	12 mil	Below-Grade Tank:	Volume	bbls; Construction Mate	rial
12	Check Approp	riate Box to Indica	te Nature of Not	ice, Report or Other D	ata
	CE OF INTENTI		1	SUBSEQUENT REP	
PERFORM REMEDIAL WO		AND ABANDON	REMEDIA		ALTERING CASING
TEMPORARILY ABANDON	<b>⊢</b> —	GE PLANS	<b>⊢</b>	CE DRILLING OPNS.	P AND A
PULL OR ALTER CASING	MULTII	PLE COMPL	CASING/C	EMENT JOB	
OTHER:	New Drill Pit		X OTHER:		
		•	,	rive pertinent dates, including	
of starting any prop or recompletion.	oosed work). SEE RU	ULE 1103. For Multiple	e Completions: Attac	th wellbore diagram of propos	sed completion
or recompletion.					
New Drill, Lined:					
				oit. Based on Burlington's in	
Ecosphere's risk ranking	criteria, the new dril	ling pit will be a lined p	it as detailed in Burli	ngton's Revised Drilling / Wo	orkover Pit Construction /
Ecosphere's risk ranking Operation Procedures dat	criteria, the new dril ted November 11, 20	ling pit will be a lined p 04 on file at the NMOC	it as detailed in Burli D office. A portion o	ngton's Revised Drilling / Worf the vent/flare pit will be des	orkover Pit Construction / signed to manage fluids and
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Ecosphere's risk ranking Operation Procedures dat that portion will be lined Pit Closure Procedure dat  I hereby certify that the infor grade tank has been/will be constructed  SIGNATURE  Type or print name	criteria, the new dril ted November 11, 20 as per the risk rankir ted August 2, 2004 o  rmation above is true tructed or closed according  Amanda Sandova	ling pit will be a lined p 04 on file at the NMOC ng criteria. Burlington n file at the NMOCD of e and complete to the bear ng to NMOCD guidelines	it as detailed in Burli D office. A portion of Resources anticipates fice.  It of my knowledge at J, a general permit X  LE Regu  Ress: asandovak	ngton's Revised Drilling / Wo of the vent/flare pit will be des closing these pits according  nd belief. I further certify that a or an (attached) alternative OCI latory Assistant III	orkover Pit Construction / signed to manage fluids and to the Drilling / Workover  only pit or belowapproved plan  DATE 3/20/2006

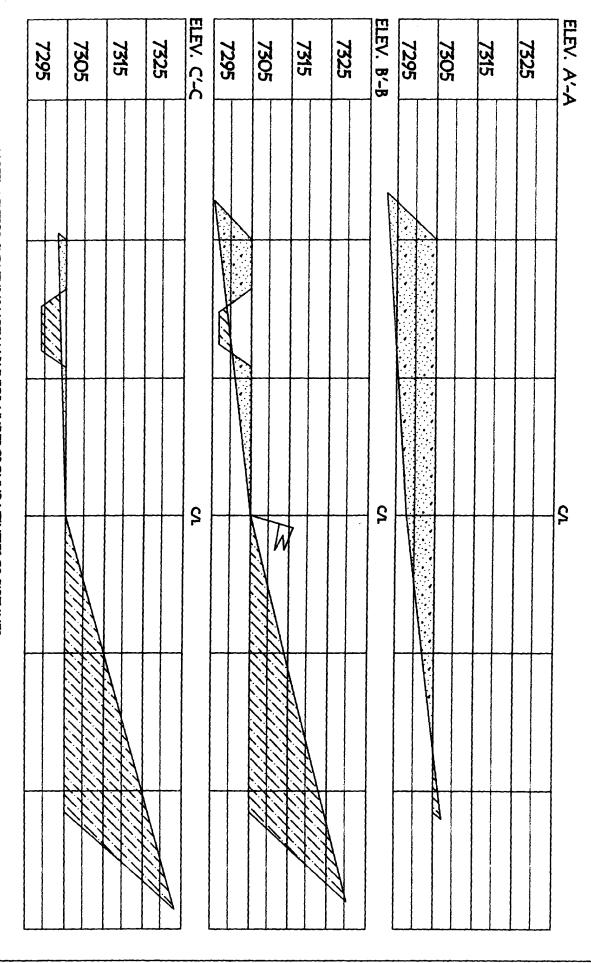


CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED

PIPLINES OR CABLES ON WELL PAP AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

LATITUDE: 36° 40.2327' N LONGITUDE: 107° 18.4650' W NAD27

SAN JUAN 28-5 UNIT #31M, 765' FSL & 2335' FEL SECTION 12, T-28- N, R-5-W, NMPM, RIO ARRIBA COUNTY, NM **BURLINGTON RESOURCES O** GROUND ELEVATION: 7305', DATE: JANUARY 16, 2006 GAS COMPANY LP



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

#### SAN JUAN 28-5 UNIT #31M OPERATIONS PLAN

Well Name: San Juan 28-5 Unit #31M

**Location** Rio Arriba County, New Mexico

Surface: 765' FSL, 2335' FEL, Section 12, T-28-N, R-5-W

Latitude 36° 40.233'N, Longitude 107° 18.465'W

Bottom Hole: 1175' FSL, 1010' FEL, Section 12, T-28-N, R-5-W

Latitude 36° 40.3'N, Longitude 107° 18.1944'W

Formation Blanco Mesa Verde/Basin Dakota

Elevation 7305'GL

Elevation / 305 G	L.		
Formation Tops	Top (TVD)	Top (TMD)	<u>Contents</u>
Surface	San Jose		
Ojo Alamo	3584'	3721'	aquifer
Kirtland	3776'	3926'	gas
Fruitland	4030'	4197'	gas
Pictured Cliffs	4234'	4415'	gas
Lewis	4493'	4691'	gas
Huerfanito Bentonite	4952'	5181'	gas
Chacra	5279'	5517'	gas
Massive Cliff House	5880'	6352'	gas
Menefee	6147'	6386'	gas
Massive Point Lookout	6444'	6683'	gas
Mancos	6945'	7184'	gas
Gallup	7675'	7914'	gas
Greenhorn	8431'	8670'	gas
Graneros	8497'	8736'	gas
Two Wells	8564'	8803'	gas
Upper Cubero	8617'	8856'	gas
Lower Cubero	8670'	8909'	gas
Oak Canyon	8740'	8979'	
TD	8755'	8994'	

#### 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 - 5668'	Non-dispersed	8.4-9.0	30-60	less than 8
5668'- 8994'	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 72.55 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 20.45 degrees. This angle and azimuth will be held to a TVD of 4929', a TMD of 5157', and a reach of 1294'. 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 5429', a TMD of 5668', a reach of 1384', 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 8994' (TVD of 8755'). 4 ½" casing will be set at this point.

## <u>Materials</u>

## Casing program

Hole Size	<u>Interval</u> (TMD)	<u>Csg. Size</u>	<u>Weight</u>	<u>Grade</u>
12 1/4"	0' - 350'	9 5/8"	32.3#	H-40
8 3/4"	350' - 5668'	7"	23#	L-80
6 1/4"	5668' - 8994'	4 1/2"	11.6#	L-80

## **Tubing Program**

Hole Size	<u>Interval</u> (TMD)	<u>Csg. Size</u>	<u>Weight</u>	<u>Grade</u>
2 3/8"`	0' - 8994'	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 ft<sup>3</sup> (442 sks) Premium Lite w/ 3% CaCl<sub>2</sub>, 0.25 pps Cello-Flake, 5 pps LCM-1, 0.4% FL-52 and 0.4% SMS (2.13 sks/ft<sup>3</sup>). Tail with 124 ft<sup>3</sup> (90 sks) Type III cmt. w/ 1% CaCl<sub>2</sub>, 0.25 pps Cello-Flake and 0.2% FL-52 (1.38 sks/ft<sup>3</sup>). 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 455 ft³ (230 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.

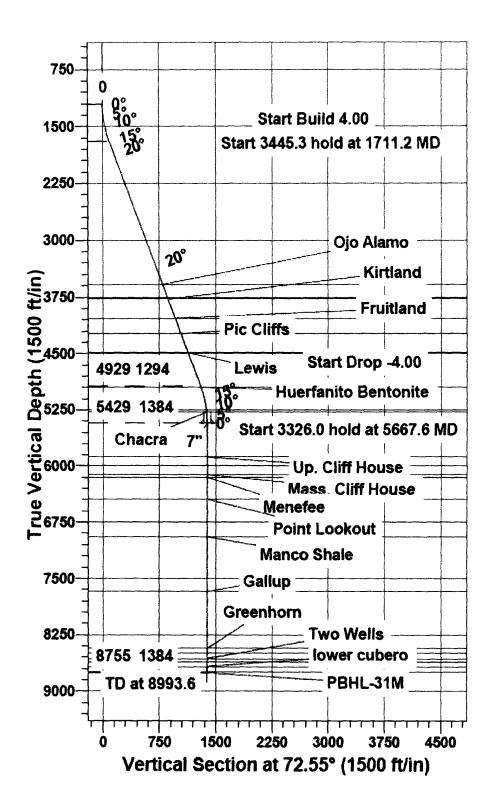
BOPE tests will be performed using an appropriately sized test plug and test pump and will be recorded using calibrated test gauges and a properly calibrated strip or chart recorder. The test will be recorded in the driller's log and will include a low pressure test requirement of 250 psig held for five 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** 

3/20/06 Date



Plot 1: Directional plan for SJ 28-5 31M



Project: SAN JUAN, NM Site: SEC 12-T28N-R5

Site: SEC 12-T28N-R5W Well: 28-5 unit #31M

Wellbore: OH

Plan: Plan #1 (28-5 unit #31M/OH)



Scientific Drift	<u></u> 9	Plan: Plan	ı #1 (28-5	unit#	31 <b>M/O</b> H)			HE	3 U L	IHUES
		S	SECTION I	DETAIL	.S					
,	MD Inc Azi 0.0 0.00 0.00 1200.0 0.00 0.00 1711.2 20.45 72.55 5156.5 20.45 72.55 5667.6 0.00 359.69 8993.6 0.00 359.69	0.0 1200.0 1700.4 4928.6 5429.0 8755.0	0.0 0.0 27.1 387.9 1 115.0 1	0.0 0.0 86.1 234.3 320.4 320.4	0.00	TFace 0.00 0.00 72.55 0.00 180.00 359.69	VSec 0.0 0.0 90.3 1293.8 1384.1 1384.1	Target CSG.PT. (31) PBHL-31		
Name CSG.PT. (31M)	TVD +N/-S 5429.0 415.0 8755.0 415.0	+E/-W 1320.4 1320.4	Northir 2064170 2064170	ng .61	Easting 655458.96	36° 40'		Longitu 07° 18′ 11.664 07° 18′ 11.664	W Point	
PROJECT DE	TAILS: SAN JUAN ,	NM				W	ELL DETA	JLS: 28-5 uni	t #31M	
Ellipsoid: Cla	D 1927 (NADCON C rke 1866 w Mexico West 3003	ONUS)	)		Northir 2063755.	ng 60	Ground I Easting 654138.55		05.0 tude 80 N107° 1	Longitude 8' 27.900 W
750-				1250				T G	M	nuths to Grid No True North: -0 pnetic North: 10
	Start Build 4.0 Start 3445.3 hold a	+		1000		:			<b>)</b>	Magnetic F trength: 51296. Dip Angle: 63 Date: 2006/03 Model: BGGM2
3000 20°	Ojc	) Alamo		750·						
3750		Kirtland Fruitland	(500 ft/in)	500· 250·					L-31M	8755
4500	<b></b>	Prop -4.00			A	200	3000	3500	6	i.PT. (31M)
4929 1294 55250 5429 1384 Chacra 7"	Huerfanito Start 3326.0 hold		ND	-250	4500	0				
6000	Up. Cliff Mass. Cli Menefee	ff House		5 -500-					· · · · · · · · · · · · · · · · · · ·	
7500	Point Looke Manco Shale Gallup	out		-750·	1	# · · · · · · · · · · · · · · · · · · ·				
8250-	Greenhorn Two W			-1000·	1		:	:		
9000 TD at 8993.6		cubero		-1250·			:			
0 750 150 Vertical Sec	00 2250 3000 ction at 72.55° (1		00	1000	0	250	500 West(-)/	750 10 East(+) (5	000 12 000 ft/in	