

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Con
P. 1980
Hobbs, NM 88241

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT - " for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
BURLINGTON RESOURCES OIL & GAS COMPANY

3. Address and Telephone No.
P. O. BOX 51810, MIDLAND, TEXAS 79710-1810 A/C 915-688-6906

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
O, 660' FSL & 1980' FEL, SEC. 18, T18S, R33E

5. Lease Designation and Serial No.

NM93

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
WEST CORBIN #13

FEDERAL

9. API Well No.
30-025-30575

10. Field and Pool, or exploratory Area

SOUTH CORBIN WOLFCAMP

11. County or Parish, State

LEA NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other SIDETRACK LATERAL
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water
(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

BURLINGTON RESOURCES OIL & GAS COMPANY RESPECTFULLY REQUESTS APPROVAL TO CUT A WINDOW IN THE EXISTING VERTICAL WELLBORE AND SIDETRACK A LATERAL HOLE TO AN OPEN 80 ACRE STANDARD PRORATION UNIT THAT IS WEST OF THE WELL. THE LATERAL HOLE WILL PRODUCE FROM THE SAME FIELD AND POOL CURRENTLY ASSIGNED TO THIS WELL. ATTACHED IS A COPY OF THE DRILLING PLAN AND PLAT SHOWING THE ENTIRE HORIZONTAL PROJECT AREA AND THE MINIMUM SETBACK DISTANCE AROUND THE HORIZONTAL PROJECT AREA. NO SURFACE USE PLAN IS REQUIRED AS WORK WILL UTILIZE THE EXISTING WELLPAD.

CONTACT PERSON: MARIA L. PEREZ, A/C 915-688-6906

10-24-97 OBTAINED VERBAL APPROVAL FROM MR. DAVID GLASS TO DO SIDETRACK

14. I hereby certify that the foregoing is true and correct

Signed Maria L. Perez

Title REGULATORY REPRESENTATIVE

Date 10-23-97

(This space for Federal or State office use)

Approved by (ORIG. SGD.) LES BABYAK

Title PETROLEUM ENGINEER

Date NOV 04 1997

Conditions of approval, if any:

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 representations as to any matter within its jurisdiction.

* See Instruction on Reverse Side

RECEIVED
BUREAU OF LAND MANAGEMENT
ROSWELL OFFICE

1997 OCT 27 A 4:51

District I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 S. 1st Street, Artesia, NM 88210-2834

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-30575		² Pool Code 13320		³ Pool Name SOUTH CORBIN WOLFCAMP	
⁴ Property Code 018359		⁵ Property Name WEST CORBIN FEDERAL			⁶ Well Number 13
⁷ OGRID No. 026485		⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			⁹ Elevation

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
0	18	18S	33E		660	SOUTH	1980	EAST	LEA

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
N	18	18S	33E		1110'	South	1349	West	LEA

¹² Dedicated Acres	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

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Maria L. Perez

Signature

MARIA L. PEREZ

Printed Name

REGULATORY REPRESENTATIVE

Title

10-9-97

Date

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

Signature and Seal of Professional Surveyor:

Certificate Number

OPERATORS NAME:	<u>Burlington Resources Oil & Gas Company</u>
LEASE NAME AND WELL NO.:	<u>West Corbin Federal #13</u>
LOCATION:	<u>O, 660' FSL & 1980' FEL, Sec. 18, T18S, R33E</u>
FIELD NAME:	<u>South Corbin Wolfcamp</u>
COUNTY:	<u>Lea County, New Mexico</u>
LEASE NUMBER:	<u>NM93</u>

The following information is to supplement BLM form 3160-3 Application for permit to drill in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN

1. Name and estimated tops of important geologic formation/marker horizons.

	<u>DEPTH</u>
Rustler	1360'
Queen	4098'
San Andres	4692'
Bone Spring	6866'
1st Bone Spring	8462'
2nd Bone Spring	9094'
Wolfcamp	10,771

2. Estimated depths at which the top and bottom of formations potentially containing usable water, oil, gas, or prospectively valuable deposits of other minerals are expected to be encountered and the operator's plans for protecting such resources.

Wolfcamp	10,771'
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3. The operator's minimum specifications for Blowout Preventer (BOP) and related equipment to be used and schematic diagrams thereof showing sizes, pressure ratings, and the testing procedures and testing frequency. BOP and BOP - related equipment (BOPE) schematics shall include schematics of choke manifold equipment. Accumulator systems and remote controls shall be utilized.

7 1/16" BOP flange system. Tested to 3000 psi.

4. The proposed casing program including size, grade, weights, type of thread and coupling, and the setting depth of each string and its condition (new or acceptably reconditioned). For exploratory wells, or for wells as otherwise specified by the authorized officer, the operator shall include the minimum design factors for tensions, burst, and collapse that are incorporated into the casing design. In cases where tapered casing strings are utilized, the operator shall also include and/or setting depths of each portion.

EXISTING CASING:

17 1/2" hole, 13 3/8" 48## csg, set @ 360'

12 1/4" hole, 8 5/8" 28# & 24# csg, set @ 2900'

7 7/8" hole, 5 1/2" 17# & 15.5# csg, set @ 11,450'

OPEN HOLE LATERAL:

Top of whipstock/Tie on point will be @ 10,080' MD. Estimated KOP will be at 10,954' MD, 30 Deg./100', 280.00 Azimuth, Final Inc 89.82 Deg. Length of lateral is to be an estimated 2000', 4-1/2" open hole.. Target MD 12,916', TVD 11,189'.

5. The amount and type(s) of cement, including anticipated additives to be used in setting each casing string, shall be described. If stage cementing techniques are to be employed, the setting depth of the stage collars and amount and type of cement, including additives, and preflush amounts to be used in each stage, shall be given. The expected linear fill-up of each cemented string, or each stage when utilizing stage-cementing techniques, shall also be given.

EXISTING CEMENT:

- a. 13 3/8" csg: Cmt'd w/370 sxs 'C' + 2% Celloflae.
Circ'd 97 sxs cmt to surface.
- b. 8 5/8" csg: Cmt'd w/1450 sxs Lite & 250 sxs C Cmt, 15# salt, Circ'd 275 sxs cmt to surface.
- c. 51/2" csg: Cmt'd 1st state w/850 sxs H cmt.
DV Tool at 8000'. Cmt'd 2nd state w/620 sxs 50/50 lite followed by 100 sxs H.. Calc'd TOC @ 4500'.

6. The anticipated characteristics, additives, use, and testing of drilling mud to be employed, along with the types and quantities of mud products to be maintained, shall be given. When air or gas drilling is proposed, the operator shall submit the following specific information:

Mud Program:

Open hole lateral section will be drilled with fresh water and polymer system

7. The anticipated testing, logging, and coring procedures to be used, including drill stem testing procedures, equipment, and safety measures.

a. DST Program: None

b. Core: None

c. Mud Logging: Two man unit, 10' samples from KOP to TD

d. Logs to be run: None

The expected bottom-hole pressure and any anticipated abnormal pressures, temperatures or potential hazards that are expected to be encountered, such as lost circulation zones and hydrogen sulfide. The operator's plans for mitigating such hazards shall be discussed. Should the potential to encounter hydrogen sulfide exist, the mitigation procedures shall comply with the provisions of Onshore Oil and Gas Order No. 6.

Bottom hole pressures at TD was an estimated psi. Bottom hole temperature 180 F. There is no anticipated Hydrogen Sulfide in this known drilling area. A job safety analysis prior to start will be performed. No abnormal pressures are anticipated.

9. Any other facets of the proposed operation which the operator wishes for BLM to consider in reviewing the application.

Anticipated time expected to be 18 days.

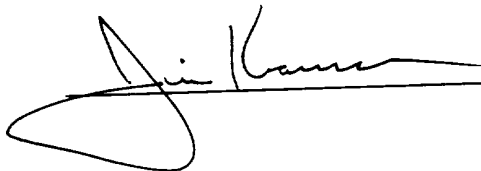
OPERATORS CERTIFICATION

I hereby certify that I, **Jim Kramer, Senior Staff Drilling Engineer**, under my direct supervision, have inspected the proposed drill site and access route that I am familiar with the conditions that currently exist; that the statements made in the APD package are, to the best of my knowledge, true and correct, and that the work associated with operations proposed herein will be performed by **not yet determined** contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under BLM **statewide** bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE: 10-24-97

NAME AND TITLE: Jim Kramer, Senior Staff Drilling Engineer

SIGNATURE:

A handwritten signature in black ink, appearing to read "Jim Kramer", is written over a horizontal line. The signature is stylized with a large, looping initial "J".

PHOENIX MULTI-SHOT
P.O. BOX 4357
CORPUS CHRISTI, TEXAS 78469

(512) 883-7263
(800) 880-SHOT

BURLINGTON RESOURCES
WEST CORBINE, WELL #13
LEA COUNTY, NEW MEXICO
RIG: JSI MAST TRUCK
JOB NUMBER: 776030 03/31/97 T.JALLAD
DECLINATION: 9.5 DEGREES EAST (TRUE)

Minimum Curvature Calculations

MEASURED Depth Feet	B O R E - H O L E		TRUE		R E C T A N G U L A R		C O R D I N A T E S		VERTICAL SECTION Feet	C L O S U R E S		DLS deg/100'
	Incl. D M	Direction D M	Vertical Depth Feet	Vertical Depth Feet	North/South Feet	East/West Feet	North/South Feet	East/West Feet		Distance Feet	Direction D M	
0.00	0 0	N 0 0 E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N 0 0 E	0.00
200.00	0 30	S 40 0 W	200.00	200.00	.67 S	.56 W	.67 S	.56 W	-.67	.87	S40 1W	.25
400.00	0 30	S 25 0 W	399.99	399.99	2.13 S	1.49 W	2.13 S	1.49 W	-2.13	2.60	S35 1W	.06
600.00	0 30	S 40 0 W	599.98	599.98	3.59 S	2.42 W	3.59 S	2.42 W	-3.59	4.33	S34 0W	.06
800.00	0 15	S 25 0 W	799.98	799.98	4.65 S	3.17 W	4.65 S	3.17 W	-4.65	5.63	S34 14W	.13
1000.00	0 30	S 65 0 W	999.97	999.97	5.41 S	4.14 W	5.41 S	4.14 W	-5.41	6.82	S37 24W	.17
1200.00	0 30	S 60 0 W	1199.97	1199.97	6.22 S	5.69 W	6.22 S	5.69 W	-6.22	8.43	S42 26W	0.02
1400.00	0 45	N 65 0 W	1399.96	1399.96	6.10 S	7.63 W	6.10 S	7.63 W	-6.10	9.77	S51 20W	.31
1600.00	0 15	S 55 0 W	1599.95	1599.95	5.80 S	9.17 W	5.80 S	9.17 W	-5.80	10.85	S57 41W	.33
1800.00	0 30	N 5 0 E	1799.95	1799.95	5.18 S	9.45 W	5.18 S	9.45 W	-5.18	10.78	S61 16W	.34
2000.00	0 45	N 19 0 E	1999.93	1999.93	3.08 S	8.95 W	3.08 S	8.95 W	-3.08	9.47	S71 2W	.15
2200.00	1 0	N 22 0 E	2199.91	2199.91	.22 S	7.87 W	.22 S	7.87 W	-.22	7.88	S88 24N	.13
2400.00	2 0	N 24 59 E	2399.84	2399.84	4.56 N	5.74 W	4.56 N	5.74 W	4.56	7.34	N51 32W	.50
2600.00	1 45	N 35 0 E	2599.73	2599.73	10.23 N	2.52 W	10.23 N	2.52 W	10.23	10.53	N13 50W	.21
2800.00	2 0	N 40 0 E	2799.63	2799.63	15.40 N	1.48 E	15.40 N	1.48 E	15.40	15.47	N 5 28E	.15

BURLINGTON RESOURCES
WEST CORBINE, WELL #13
LEA COUNTY, NEW MEXICO

MEASURED Depth Feet	B O R E - H O L E		TRUE Vertical Depth Feet	R E C T A N G U L A R C O O R D I N A T E S		VERTICAL SECTION Feet	C L O S U R E S		DLS Deg/100'
	Incl. D M	Direction D M		North/South	East/West Feet		Distance Feet	Direction D M	
3000.00	1 15	N 43 0 E	2999.54	19.67 N	5.21 E	19.67	20.35	N14 49E	.38
3200.00	1 45	N 50 0 E	3199.48	23.23 N	9.03 E	23.23	24.92	N21 15E	.27
3400.00	1 30	N 40 0 E	3399.40	27.20 N	13.06 E	27.20	30.17	N25 38E	.19
3600.00	1 15	N 12 59 E	3599.34	31.33 N	15.23 E	31.33	34.83	N25 55E	.34
3800.00	1 30	N 20 59 E	3799.28	35.90 N	16.66 E	35.90	39.58	N24 53E	.16
4000.00	0 45	N 5 0 W	3999.24	39.65 N	17.48 E	39.65	43.33	N23 47E	.44
4200.00	0 45	N 5 0 W	4199.23	42.26 N	17.25 E	42.26	45.64	N22 12E	0.00
4400.00	1 15	N 15 0 W	4399.19	45.67 N	16.57 E	45.67	48.58	N19 57E	.26
4600.00	0 30	N 75 0 W	4599.17	48.00 N	15.17 E	48.00	50.34	N17 32E	.55
4800.00	0 45	N 75 0 W	4799.16	48.56 N	13.06 E	48.56	50.29	N15 3E	.13
5000.00	0 30	N 65 0 W	4999.15	49.27 N	11.00 E	49.27	50.49	N12 35E	.14
5200.00	1 15	N 35 0 W	5199.13	51.43 N	8.96 E	51.43	52.20	N 9 53E	.43
5400.00	1 15	N 25 0 W	5399.08	55.19 N	6.79 E	55.19	55.61	N 7 0E	.11
5600.00	1 15	N 25 0 W	5599.03	59.15 N	4.94 E	59.15	59.35	N 4 46E	0.00
5800.00	1 0	N 43 0 W	5798.99	62.40 N	2.83 E	62.40	62.46	N 2 36E	.22
6000.00	0 45	N 5 0 E	5998.97	64.98 N	1.76 E	64.98	65.00	N 1 33E	.37
6200.00	0 45	N 10 0 E	6198.95	67.57 N	2.10 E	67.57	67.60	N 1 46E	.03
6400.00	1 15	N 35 0 E	6398.92	70.65 N	3.58 E	70.65	70.74	N 2 54E	.33
6600.00	1 15	N 40 0 E	6598.88	74.11 N	6.23 E	74.11	74.37	N 4 48E	.05
6800.00	1 30	N 50 0 E	6798.82	77.46 N	9.64 E	77.46	78.06	N 7 5E	.17
7000.00	1 45	N 55 0 E	6998.74	80.89 N	14.14 E	80.89	82.12	N 9 55E	.14
7200.00	1 30	N 15 0 W	7198.67	85.18 N	15.97 E	85.18	86.66	N10 37E	.94
7400.00	1 45	N 18 0 W	7398.59	90.61 N	14.35 E	90.61	91.74	N 9 0E	.13
7600.00	2 15	N 27 0 W	7598.47	97.01 N	11.62 E	97.01	97.70	N 6 49E	.29
7800.00	2 15	N 69 59 W	7798.33	101.85 N	6.15 E	101.85	102.04	N 3 27E	.82

BURLINGTON RESOURCES
WEST CORBINE, WELL #13
LEA COUNTY, NEW MEXICO

Page 3

MEASURED Depth Feet	B O R E - H O L E		TRUE Vertical Depth Feet	R E C T A N G U L A R C O O R D I N A T E S		VERTICAL SECTION Feet	C L O S U R E S		DLS Deg/100'
	Incl. D M	Direction D M		North/South Feet	East/West Feet		Distance Feet	Direction D M	
8000.00	3 0	N 72 58 W	7998.12	104.73 N	2.55 W	104.73	104.76	N 1 23W	.38
8200.00	2 30	N 64 59 W	8197.89	108.11 N	11.50 W	108.11	108.72	N 6 4W	.31
8400.00	3 15	N 67 58 W	8397.64	112.08 N	20.71 W	112.08	113.97	N10 28W	.38
8600.00	3 15	N 72 57 W	8597.31	115.86 N	31.39 W	115.86	120.04	N15 9W	.14
8800.00	3 15	N 82 57 W	8796.99	118.22 N	42.44 W	118.22	125.61	N19 44W	.28
9000.00	3 0	N 86 57 W	8996.70	119.19 N	53.29 W	119.19	130.56	N24 5W	.17
9200.00	2 30	N 89 58 W	9196.47	119.47 N	62.88 W	119.47	135.01	N27 45W	.26
9400.00	2 15	N 84 59 W	9396.29	119.82 N	71.15 W	119.82	139.35	N30 42W	.16
9600.00	3 0	N 76 57 W	9596.08	121.34 N	80.16 W	121.34	145.43	N33 27W	.42
9800.00	2 45	N 89 58 W	9795.83	122.53 N	90.06 W	122.53	152.06	N36 19W	.35
10000.00	2 45	N 76 58 W	9995.61	123.61 N	99.53 W	123.61	158.70	N38 50W	.31
10080.00	2 45	N 79 58 W	10075.51	124.38 N	103.29 W	124.38	161.67	N39 42W	.18
Final Station Closure Distance:			161.67 Feet;	Direction: N 39 42 W					

Burlington Resources Oil & Gas Co.
West Corbin #13
slot #1
Lea County
New Mexico

P R O P O S A L L I S T I N G

Your ref : 10954 KOP
Our ref : prop3609
Other ref :

Date printed : 14-Oct-97
Date created : 14-Oct-97
Last revised : 14-Oct-97

Field is centred on n32 49 0.000,w103 19 0.000,-105
Structure is centred on n32 49 0.000,w103 19 0.000,-105

Burlington Resources Oil & Gas Co.

Structure : West Corbin #13 Well #13

Field : Lea County Location : New Mexico

WELL PROFILE DATA

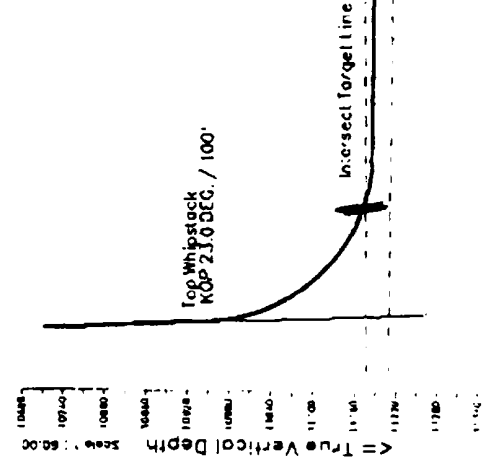
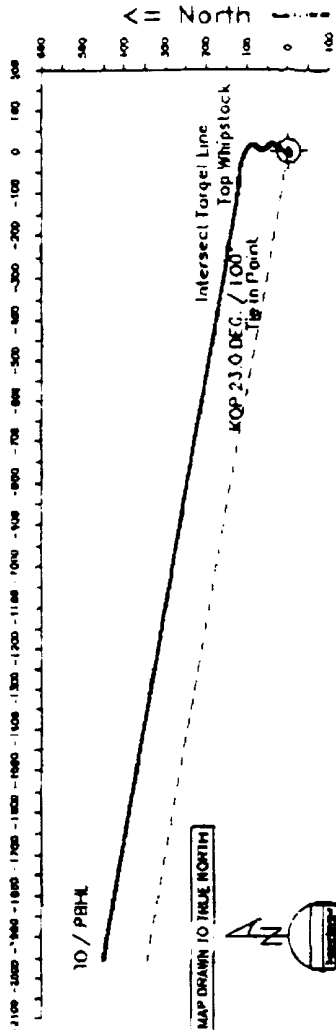
Point	MD	Inc	Dir	TVD	North	East
Tie on	10080	2.75	280.03	10076	124	-103
End of Build	10936	3.00	280.00	10930	132	-146
KOP	10954	3.00	280.00	10948	132	-146
End of Build	11331	89.82	280.00	11184	175	-390
Target	12916	89.82	280.00	11189	450	-1951

Created by : DSI DPC / Ken Sullivan
Date plotted : 11-Oct-97
Plot reference is 10954 KOP
Coordinates are in feet reference slat #1.
True Vertical Depths are reference wellhead.

--- Anadiri Schlumberger ---

East =>

Scale 1 : 100.00



Vertical Section on 280.00 azimuth with reference 0.00 N, 0.00 E from slat #1

Schlumberger
Anadiri

Burlington Resources Oil & Gas Co.
West Corbin #13, #13
Los County, New Mexico

PROPOSAL LISTING Page 1
Your ref : 10954 KOP
Last revised : 14-Oct-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect	
10080.00	2.75	280.03	10075.52	124.46 N	103.27 W	0.00	123.32	Tie in Point
10100.00	2.76	280.03	10095.49	124.63 N	104.22 W	0.03	124.28	
10200.00	2.79	280.03	10195.38	125.47 N	108.98 W	0.03	129.11	
10300.00	2.92	280.03	10295.26	126.32 N	113.79 W	0.03	134.00	
10400.00	2.84	280.02	10395.13	127.18 N	118.65 W	0.03	138.93	
10500.00	2.87	280.02	10495.01	128.05 N	123.56 W	0.03	143.92	
10600.00	2.90	280.01	10594.88	128.93 N	128.52 W	0.03	148.95	
10700.00	2.93	280.01	10694.75	129.81 N	133.53 W	0.03	154.04	
10800.00	2.96	280.01	10794.62	130.70 N	138.59 W	0.03	159.18	
10900.00	2.99	280.00	10894.49	131.60 N	143.70 W	0.03	164.37	
10936.00	3.00	280.00	10930.44	131.93 N	145.55 W	0.03	166.25	Top Whipstock
10954.00	3.00	280.00	10948.41	132.09 N	146.48 W	0.00	167.19	KOP 23.0 DEG. / 100'
11040.98	23.05	280.00	11032.73	135.48 N	165.69 W	23.05	186.70	
11140.98	46.09	280.00	11114.52	145.27 N	221.19 W	23.05	243.06	
11240.98	69.14	280.00	11167.71	159.83 N	303.80 W	23.05	326.94	
11330.71	89.82	280.00	11184.00	175.07 N	390.20 W	23.05	414.67	Intersect Target Line (u)
11500.00	89.82	280.00	11184.54	204.47 N	556.92 W	0.00	583.97	
12000.00	89.82	280.00	11186.11	291.29 N	1049.32 W	0.00	1083.96	
12500.00	89.82	280.00	11187.69	378.11 N	1541.73 W	0.00	1583.96	
12915.99	89.82	280.00	11189.00	480.34 N	1951.39 W	0.00	1999.95	TD / PBHL
12916.04	89.82	280.00	11189.00	450.35 N	1951.44 W	0.00	2000.00	

↑
Target
Azimuth

↑
Distances
From
Surface Locn

Note:

THE GYRO WAS RUN TO 10080' (CIBP IN HOLE).

KOP LOCATION EXTRAPOLATED TO 10954' (NOT MEASURED)

BASED ON LAST 3 GYRO SURVEY POINTS AVG INCLINATION/AZIMUTH

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 280.00 degrees.
Calculation uses the minimum curvature method.

Burlington Resources O. & Gas Co.
West Corbin #11, #13
Lea County, New Mexico

PROPOSAL LISTING age 2
Your ref : 10954 KOP
Last revised : 14-Oct-97

				Comments in wellpath

MD	TVD	Rectangular Coords.		Comment
10080.00	10075.52	124.46 N	103.27 W	Tie in Point
10936.00	10930.44	131.93 N	145.55 W	Top Whipstock
10954.00	10948.41	132.09 N	146.48 W	KOP 23.0 DEG. / 100'
11330.71	11184.00	175.07 N	390.20 W	Intersect Target Line
12915.99	11189.00	450.34 N	1951.39 W	TD / PBHL

All data is in feet unless otherwise stated
Coordinates are from slot #1 and TVDs are from wellhead.
Vertical section is from wellhead on azimuth 280.00 degrees.
Calculation uses the minimum curvature method.