

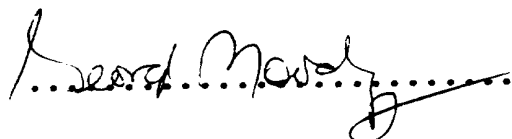
SCIENTIFIC DRILLING INTERNATIONAL

MIDLAND, TEXAS

BURLINGTON RESOURCES

WELL NAME	: FEDERAL 21 #3
Location	: LEA COUNTY, NM
SHL	:
BHL	:
ACTUAL BHL	:
Date Surveyed	: 5 SEPTEMBER 1996
Job Number	: 32k0996361
Surveyor	: GARY DESPAIN

This survey is correct to the best of my knowledge
and is supported by actual field data.

 COMPANY REPRESENTATIVE

SCIENTIFIC DRILLING INTERNATIONAL

Client : BURLINGTON RESOURCES
WELL NAME : FEDERAL 21 #3
Location : LEA COUNTY, NM
SHL :
BHL :
ACTUAL BHL :
Height Of WELLSITE Datum Above Field Datum

Page 1 of 3
Date 5 SEPTEMBER 1996
Filename : FED21#3

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
0.0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
100.0	0.35	S35.21°W	100.00	-0.25	-0.18	-0.31	0.3
200.0	0.38	S 2.81°W	200.00	-0.83	-0.37	-0.90	0.2
300.0	0.26	S 3.47°E	300.00	-1.39	-0.37	-1.36	0.1
400.0	0.30	S12.97°W	399.99	-1.87	-0.42	-1.79	0.1
500.0	0.37	S23.91°E	499.99	-2.42	-0.34	-2.21	0.2
600.0	0.32	S32.27°E	599.99	-2.95	-0.06	-2.50	0.1
700.0	0.45	S30.24°E	699.99	-3.53	0.28	-2.78	0.1
800.0	0.46	S32.42°E	799.99	-4.20	0.70	-3.12	0.0
900.0	0.47	S29.59°E	899.98	-4.90	1.11	-3.47	0.0
1000.0	0.44	S31.34°E	999.98	-5.58	1.52	-3.82	0.0
1100.0	0.29	S 5.71°W	1099.98	-6.16	1.69	-4.20	0.3
1200.0	0.31	S26.27°W	1199.98	-6.66	1.55	-4.70	0.1
1300.0	0.36	S42.20°W	1299.97	-7.13	1.21	-5.27	0.1
1400.0	0.34	S42.13°W	1399.97	-7.59	0.80	-5.88	0.0
1500.0	0.29	S41.38°W	1499.97	-8.00	0.44	-6.42	0.0
1600.0	0.14	S 8.20°W	1599.97	-8.31	0.25	-6.78	0.2
1700.0	0.21	S52.36°E	1699.97	-8.54	0.38	-6.91	0.2
1800.0	0.09	S46.15°E	1799.97	-8.71	0.58	-6.93	0.1
1900.0	0.21	S63.46°E	1899.97	-8.84	0.80	-6.93	0.1
2000.0	0.28	S51.05°E	1999.97	-9.08	1.16	-6.93	0.1
2100.0	0.23	N70.05°E	2099.97	-9.16	1.54	-6.79	0.3
2200.0	0.46	N70.65°E	2199.97	-8.96	2.10	-6.31	0.2
2300.0	0.76	N59.01°E	2299.96	-8.49	3.05	-5.39	0.3
2400.0	0.97	N56.99°E	2399.95	-7.69	4.33	-4.01	0.2
2500.0	1.29	N56.51°E	2499.93	-6.60	5.98	-2.20	0.3
2600.0	1.25	N50.27°E	2599.90	-5.28	7.76	-0.12	0.1
2700.0	1.27	N47.44°E	2699.88	-3.84	9.41	2.00	0.1
2800.0	1.26	N43.43°E	2799.86	-2.29	10.98	4.16	0.1
2900.0	1.15	N37.43°E	2899.83	-0.69	12.35	6.24	0.2
3000.0	0.99	N32.19°E	2999.82	0.83	13.42	8.11	0.2
3100.0	0.92	N32.47°E	3099.80	2.24	14.31	9.78	0.1
3200.0	0.98	N20.66°E	3199.79	3.72	15.04	11.41	0.2
3300.0	1.12	N15.17°E	3299.77	5.46	15.60	13.17	0.2
3400.0	1.15	N15.44°E	3399.75	7.37	16.12	15.05	0.0
3500.0	1.15	N16.22°E	3499.73	9.30	16.67	16.97	0.0
3600.0	1.11	N17.85°E	3599.71	11.19	17.25	18.86	0.1
3700.0	1.04	N21.15°E	3699.70	12.96	17.87	20.68	0.1
3800.0	0.97	N25.97°E	3799.68	14.57	18.57	22.40	0.1
3900.0	0.89	N28.81°E	3899.67	16.01	19.32	24.01	0.1

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Page 2 of 3
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ACTUAL BHL :

No Interpolation

Height Of WELLSITE Datum Above Field Datum 0.00 ft

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
4000.0	0.89	N30.49°E	3999.66	17.36	20.08	25.56	0.0
4100.0	0.77	N29.64°E	4099.64	18.61	20.81	27.01	0.1
4200.0	0.71	N25.11°E	4199.64	19.75	21.40	28.29	0.1
4300.0	0.58	N28.20°E	4299.63	20.76	21.91	29.41	0.1
4400.0	0.64	N25.79°E	4399.62	21.71	22.39	30.47	0.1
4500.0	0.62	N23.08°E	4499.62	22.71	22.84	31.55	0.0
4600.0	0.39	N39.22°E	4599.61	23.47	23.27	32.42	0.3
4700.0	0.46	N25.66°E	4699.61	24.10	23.66	33.16	0.1
4800.0	0.43	N31.12°E	4799.61	24.78	24.03	33.93	0.1
4900.0	0.31	N45.34°E	4899.61	25.29	24.41	34.57	0.2
5000.0	0.45	N38.93°E	4999.60	25.79	24.85	35.23	0.1
5100.0	0.71	N21.78°E	5099.60	26.67	25.33	36.23	0.3
5200.0	0.50	N42.77°E	5199.59	27.56	25.86	37.26	0.3
5300.0	0.34	N45.58°E	5299.59	28.09	26.36	37.98	0.2
5400.0	0.24	N74.44°E	5399.59	28.36	26.78	38.43	0.2
5500.0	0.69	N23.10°E	5499.58	28.97	27.22	39.18	0.6
5600.0	0.66	N32.09°E	5599.58	30.01	27.76	40.35	0.1
5700.0	0.40	N66.34°E	5699.57	30.64	28.38	41.22	0.4
5800.0	0.55	N31.87°E	5799.57	31.18	28.96	41.99	0.3
5900.0	0.30	N69.22°E	5899.57	31.68	29.46	42.68	0.4
6000.0	0.70	N52.71°E	5999.56	32.15	30.19	43.47	0.4
6100.0	0.41	N52.37°E	6099.56	32.74	30.96	44.39	0.3
6200.0	0.45	N25.15°E	6199.56	33.31	31.41	45.12	0.2
6300.0	0.61	N 4.91°E	6299.55	34.20	31.62	45.97	0.2
6400.0	0.44	N12.31°W	6399.55	35.10	31.58	46.71	0.2
6500.0	0.94	N 6.91°W	6499.54	36.29	31.40	47.60	0.5
6600.0	0.63	N 4.54°W	6599.53	37.65	31.26	48.66	0.3
6700.0	0.47	N28.96°W	6699.53	38.56	31.02	49.28	0.3
6800.0	0.70	N 5.55°W	6799.52	39.53	30.76	49.94	0.3
6900.0	0.37	N14.74°W	6899.52	40.45	30.62	50.63	0.3
7000.0	0.50	N 2.19°E	6999.51	41.20	30.55	51.22	0.2
7100.0	0.60	N18.09°E	7099.51	42.13	30.73	52.10	0.2
7200.0	0.74	N29.73°E	7199.50	43.19	31.22	53.24	0.2
7300.0	1.24	N30.94°E	7299.49	44.68	32.09	54.97	0.5
7400.0	1.34	N31.66°E	7399.46	46.60	33.26	57.22	0.1
7500.0	1.19	N31.59°E	7499.44	48.48	34.42	59.43	0.2
7600.0	1.01	N33.63°E	7599.42	50.10	35.45	61.34	0.2
7700.0	1.04	N20.15°E	7699.40	51.68	36.25	63.11	0.2
7800.0	0.58	N43.97°E	7799.39	52.90	36.92	64.49	0.6
7900.0	0.43	N59.22°E	7899.39	53.46	37.59	65.33	0.2

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Height Of WELLSITE Datum Above Field Datum 0.00 ft

Page 3 of 3

Date 5 SEPTEMBER 1996

Filename : FED21#3

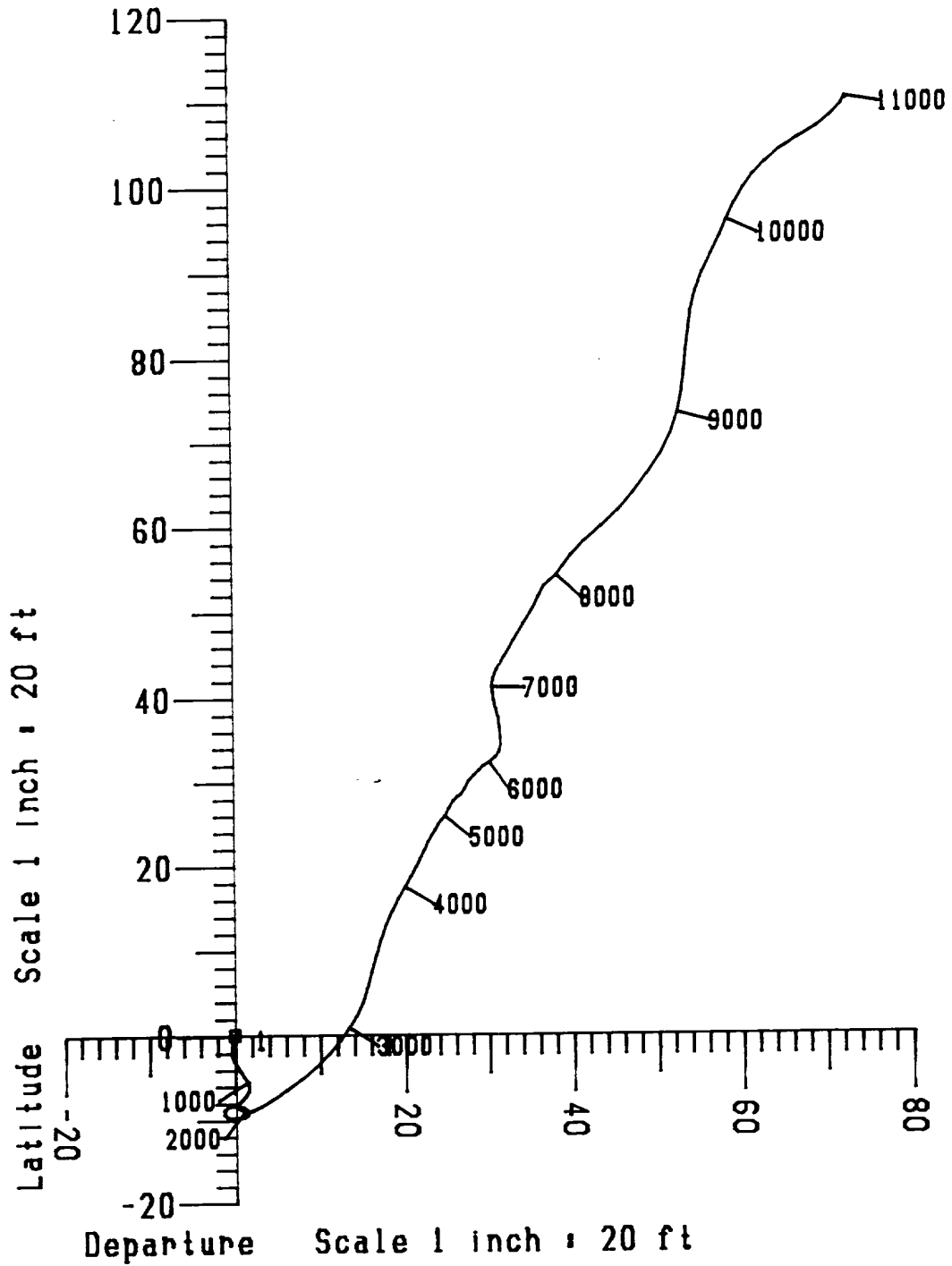
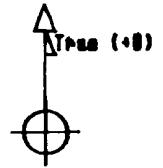
No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
8000.0	0.74	N41.89°E	7999.38	54.13	38.34	66.30	0.4
8100.0	0.79	N33.77°E	8099.38	55.18	39.16	67.63	0.1
8200.0	1.05	N40.15°E	8199.36	56.46	40.13	69.23	0.3
8300.0	1.52	N45.96°E	8299.34	58.08	41.68	71.44	0.5
8400.0	1.53	N51.09°E	8399.30	59.84	43.67	74.00	0.1
8500.0	1.61	N42.93°E	8499.27	61.71	45.66	76.66	0.2
8600.0	1.55	N37.44°E	8599.23	63.81	47.44	79.40	0.2
8700.0	1.62	N37.36°E	8699.19	66.01	49.12	82.16	0.1
8800.0	1.62	N31.78°E	8799.15	68.33	50.73	84.98	0.2
8900.0	1.55	N20.93°E	8899.11	70.80	51.95	87.71	0.3
9000.0	1.51	N15.98°E	8999.08	73.33	52.80	90.29	0.1
9100.0	1.45	N 8.20°E	9099.04	75.84	53.34	92.69	0.2
9200.0	1.36	N 5.66°E	9199.01	78.28	53.64	94.88	0.1
9300.0	1.37	N 6.01°E	9298.98	80.65	53.88	96.99	0.0
9400.0	1.41	N 8.56°E	9398.96	83.05	54.19	99.17	0.1
9500.0	1.30	N 5.84°E	9498.93	85.40	54.49	101.29	0.1
9600.0	1.29	N20.38°E	9598.90	87.58	55.00	103.39	0.3
9700.0	1.49	N22.71°E	9698.87	89.84	55.89	105.76	0.2
9800.0	1.32	N29.00°E	9798.84	92.04	56.95	108.18	0.2
9900.0	1.21	N24.14°E	9898.82	94.01	57.94	110.37	0.2
10000.0	1.23	N23.73°E	9998.79	95.96	58.80	112.47	0.0
10100.0	1.21	N27.61°E	10098.77	97.88	59.73	114.58	0.1
10200.0	1.18	N35.52°E	10198.75	99.65	60.81	116.66	0.2
10300.0	1.06	N38.69°E	10298.73	101.21	61.99	118.61	0.1
10400.0	1.18	N48.59°E	10398.71	102.62	63.34	120.53	0.2
10500.0	1.52	N50.24°E	10498.68	104.14	65.13	122.79	0.3
10600.0	1.47	N66.87°E	10598.65	105.50	67.33	125.13	0.4
10700.0	1.25	N52.61°E	10698.62	106.66	69.38	127.24	0.4
10800.0	1.33	N51.05°E	10798.60	108.05	71.15	129.37	0.1
10900.0	0.87	N33.77°E	10898.58	109.42	72.47	131.24	0.6
11000.0	0.35	N 7.50°E	10998.57	110.35	72.93	132.27	0.6
11100.0	0.58	S 6.71°E	11098.57	110.15	73.03	132.16	0.9

Origin of Bottom Hole Closure WELLSITE CENTRE
Bottom Hole Closure 132 ft N33.55°E



SCIENTIFIC DRILLING
FOR
MINERAL RESOURCES
FEBRUARY 21 83
IN
LEA COUNTY, NM



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
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

Form OCM-1
Revised February 10, 1994
Instructions on back
Submit to Appropriate District Office
5 Copies

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, NM 87504-2088

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Burlington Resources Oil & Gas Company P.O. Box 51810 Midland, TX 79710-1810		² OGRID Number 26485
		³ Reason for Filing Code Sidetrack existing wellbore
⁴ API Number 30-025-30690	⁵ Pool Name South Corbin Wolfcamp	⁶ Pool Code 13320
⁷ Property Code 18345	⁸ Property Name Federal 21	⁹ Well Number # 3

II. Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
F	21	18S	33E		2007'	North	2124'	West	Lea

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
									Lea
¹² Lse Code Federal	¹³ Producing Method Code Flowing	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
017666	GPM Gas Corporation	2327830	G	
022628	Texas/New Mexico Pipeline Co.	2327810	O	

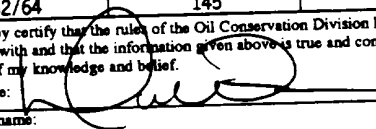
IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD (MD-vert.) 11,538' 12,700' (MD-horz.)	²⁸ PBTD (MD-vert.) 11,505' CIBP @ 10,813'	²⁹ Perforations 11,125'-12,700'
9/21/96	12/23/96			
³⁰ Hole Size	³¹ Casing & Tubing Size	³² Depth Set	³³ Sacks Cement	
17 1/2"	13 3/8" 48#	351'	370 SXS	
12 1/4"	8 5/8" 24#	2903'	1250 SXS	
7 7/8"	5 1/2" 15.5#/17#	11,538'	1510 SXS	

VI. Well Test Data

³⁴ Date New Oil	³⁵ Gas Delivery Date	³⁶ Test Date	³⁷ Test Length	³⁸ Tbg. Pressure	³⁹ Csg. Pressure
12/5/96		12/6/96	24 hrs	80	
⁴⁰ Choke Size	⁴¹ Oil	⁴² Water	⁴³ Gas	⁴⁴ AOF	⁴⁵ Test Method
32/64	145	24	243		
⁴⁶ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 					
Printed name: Donna Williams			Approved by:		
Title: Regulatory Compliance			Title:		
Date: 12/23/96			Approval Date:		
Phone: 915-688-6943					

OIL CONSERVATION DIVISION

⁴⁷ If this is a change of operator fill in the OGRID number and name of the previous operator

Southland Royalty Company	Regulatory	7/31/95
Previous Operator Signature	Printed Name	Title Date