		F THE INTERIO		.O. x 1980	Budget Bureau No. 1004-0135 Expires July 31, 1996
	BUREAU OF LAN	D MANAGEMEN	'H	obbs, NM 88241	
S	UNDRY NOTICES AND	DEBODTS ON	VELLO	5. Lease Se	
					NM 16139
	not use this form for prop ndoned well.Use Form 31				a, Allottee or Tribe Name
SUBMIT IN 2	TRIPLICATE - Other Ins	tructions on rever	e side	7. If Unit o	or CA/Agreement, Name and/or No.
Oil Well	X Gas Well			8. Well Nam	and No.
2. Name of Operator		Other			tchfork "4" Federal #2
•	RCES OIL AND GAS CO	OMPANY		9. API Well	
3a. Address		b. Phone No. (inclu	le area code)		30-025-30331
P. O. Box 51810, Midlar	nd, TX 79710-1810	915-68	8-6906	10. Field and	Pool, or Exploratory Area
4. Location of Well (Footage	, Sec., T., R., M., or Survey [Description)	· · · · · · · · · · · · · · · · · · ·	Pitc	hfork Ranch Wolfcamp
					tchfork Ranch Strawn
K, 1830' FSL & 1980' FV SEC. 4, T24S, R34E	WL,			11. County o	r Parish, State
	APPROPRIATE BOX(ES) 1		IDE OF NO	TICE DEDORT OD	Lea Co., NM
TYPE OF SUBMISSION		O INDICATE NAT	TYPE OF A		JIHER DATA
		(-]			······································
	Acidize	Deepen	L	Production (Start/Resume	e) Water Shut-Off
X Notice of Intent	Alter Casing	Fracture Tre	·	Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Constru	tion	Recomplete	X Other
Final Abandonment Notice	Change Plans	Plug and Aba	ndon	Temporarily Abandon	Sidetrack/Directional
	Convert to Injection	Plug Back		Water Disposal	
proposal is to deepen direction Bond under which the work will the involved operations. If the o	ally or recomplete' horizontally, give be performed or provide the Bond operation results in a multiple comp	e subsurface locations a No. on file with BLM/BIA letion or recompletion in	d measured an Required sub: a new interval.	d true vertical depths of all sequent reports shall be file a Form 3160-4 shall be filed	and approximate duration thereof. If the pertinent markers and zones. Attach the d within 30 days following completion of l once testing has been completed. Final letermined that the site is ready for final
Proposed Procedure: Sidetr	ack/Directional Hole from	existing.vertical	ell. Will s	et CIBP @13,900' w	//25 sxs "C" on top.
1. Gyro survey has been run Set Whipstock and cut w	n to determine actual botto indow in 7" csg @ +/-12,7	m hole location. 705' MD.	Copy of Gy	ro is attached.	
2. Drill 6" Hole, build @ 8 to total depth of 13,922'	degrees/100' to final angle MD, 13,805' TVD.	e 27.9 degrees alo	g 0 degrees	SUBJE	CT TO
3. Run 4-1/2", 15.1#, S-95,	STL Liner & cmt. See the	e attached drilling	olan.	LIKE AF By Sta	PROVAL
See sundry dated 12-3-9' Pools.	7 requesting approval to do	ownhole comming	e the Pitchi		p & Pitchfork Ranch Strawn
14 Therefore 20 short 0					
14. I hereby certify that the for Name (Printed/Typed) Ma	egoing is true and correct. ria L. Perez		Title	Regulatory Represent	ative
Signature	Fana		Date	1-5-98	·
Approved by	1 mg		 Title		Date
	ble title to those rights in the subject 1	ot warrant or certify	DIEUM E	NGINEER	JAN 0 7 1998

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 statement or representations as to any matter within its jurisdiction.

5

OPERATORS NAME:	Burlington Resources Oil & Gas Company
LEASE NAME AND WELL NO.:	Pitchfork "4" Federal #2
LOCATION:	K, 1830' FSL & 1980' FWL, Sec. 4, T24S, R34E
FIELD NAME:	Pitchfork Ranch Wolfcamp and Pitchfork Ranch Strawn
COUNTY:	Lea County, New Mexico
LEASE NUMBER:	NM 16139
	API# 30-025-30331

The following information is to supplement BLM form 3160-5 Application for permit to sidetrack & drill a directional hole from an existing vertical well in accordance with Onshore Oil and Gas Order No. 1:

9 - POINT DRILLING PLAN FOR PROPOSED SIDETRACK/DIRECTIONAL FROM AN EXISTING VERTICAL WELL

DEPTH

1. Name and tops of important geologic formation/marker horizons for existing vertical hole.

Surface
1060'

Suit	1000
Anhydrite	5020'
Delaware	5200'
Bone Springs	9400'
Wolfcamp	12,700'
Strawn	13,700'
Atoka	13,950'

Redbeds

Salt

2. 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	12,700'
Strawn	13,700'

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.

NU 7-1/16" 10M psi WP BOP's including annular w/rotating head (API RP53 fig 2.C.9 RSRRAG). Test ram BOP's and choke manifold to 250 psi and 10,000 psi, test annular BOP to 250 psi and 3,500 psi utilizing a test plug and an independent tester.

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#, H-40 csg set @ 620'

12 1/4" hole, 9 5/8", 40#, K-55 & S80 csg set @ 5150'

7-7/8" hole, 7", 29 & 32#, LTC csg set @13,300'

PROPOSED SIDETRACK/LINER:

6" hole: KOP @ +/-12,705', Target Azimuth 0 Degrees. Build to Final Inclination of 27.9 Degrees, Drill Tangent Section to Total Depth of 13,922' MD, 13,805' TVD

Liner: 4-1/2" 15.1# S-95 STL 12,500' - TD.

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. 17-1/2" Hole 13 3/8" csg: Cmtd w/650 sxs Class "C". Cmt circulated to surface.
- b. 12-1/4" Hole, 9 5/8" csg: Cmtd: w/1900 sxs Class "C" Cmt, tailed w/300 sxs Class "C". Cmt circ'd to surface.

c. 7-7/8" hole, 7" csg: Cmtd w/1500 sxs Class "H", tailed w/250 sxs Class "H". TOC @5300' by Temperature Survey.

PROPOSED CEMENT

- d. 6" Hole, 4-1/2" Liner. Cmt w/125 sxs Class "H", Circ Cement to top of Liner @ +/- 12,500'.
- 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 for Sidetrack Portion of Hole :

12,750' - TD: Brine/XCD/Barite, 10.0 ppg - 13.5 ppg (Weighted Water Base)

- 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: 12,705' to TD
 - d. Logs to be run: None
- 8. 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.

Potential for abnormal pressure exists from the top of the Wolfcamp to TD. Bottom hole presures at TD is estimated at 9350 psi. Bottom hole temperature 180 F. There is no anticipated Hydogren Sulfide in this known drilling area. 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 do this work is 20 days.

OPERATORS CERTIFICATION

I hereby certify that I, <u>Jim Kramer, Senior Staff Drilling Engineer</u>, 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:

1-5-98

NAME AND TITLE:	Jim Kramer, Senior Staff Drilling Engineer
SIGNATURE:	Ain Klamer

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

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	r		² Pool Code				³ Pool Nam	e	
) - 025 - 303	31		82950			Pit	chfork Ranch	Wolfcam	n
⁴ Property	Code				⁵ Pro	perty Na	me			⁶ Well Number
0143				Pi	tchfor	<u>k "4"</u>	Federal			2
⁷ OGRID	No.				8 Ope	rator Na	me			9 Elevation
2648	35			<u>Burlington</u>			<u>il & Gas Compa</u>	ny		3361'
				10	Surface	e Locati	on			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	n the	North/South Line	Feet from the	East/West	line County
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			¹¹ Bo	ttom Hole Lo	ocation	If Diffe	rent From Surfac			
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¹² Dedicated Acre	s ¹³ Joint	or Infill 14Co	onsolidation	Code 15 Orde	er No.		L			
320										
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		SL: SU	PEACE I	_OCATION				Signature Mania Dono		2
		PKOP: PRI	DPOSED	KICKDEE	POINT			<u>Maria Pere</u> Printed Name	<u> </u>	
	,	PTL: PR	UPUSED	TERMINUS	LOCA	TION		<u>Regulatory</u>	Represer	ntative
								Title		
								1/6/98		
								Date		
	Buri	lington Re	sources	Dil & Gas	Co.					TIFICATION
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		#2_ 486.		Ļ						
				PROPOSED UNORTHODOX						
		PKI	OP .	BOTTON HOLE				Date of Survey		
•		, S.								
								Signature and Seal	OI Professiona	il Surveyer:
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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

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OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	0 <u>58</u>]	2206 	<	;650' Selbock	Certificate Number		
2052'	РТІ. #2 У РКПР	PROPOSED UNORTHODOX BOTTOM HOLE LOCATION	:		Date of Survey Signature and Seal	supervision, and st of my belief.	rveyer:
Burl	ington Reso	urces Dilles Gas	5 Co.		1/6/98 Date ¹⁸ SURVE	YOR CERTIN	on shown on this plat
	SL: SURF	ACE LOCATION DSED KICKOFF DSED TERMINUS			Signature Maria Perez Printed Name Regulatory Title	Ζ	3
	W/PRODUCI	ING WINDOW TBACK DISTANC Joundary & 165	E BY FIELD	RULES	Maria	L. T.	2
Rober	320 ACRE	th DII & Gas E		¥	I hereby certify th	TOR CERTIF hat the informatio to the best of my	ICATION n contained herein is knowledge and belief.
NO ALLOWABLE WI	LL BE ASSIG OR A NON-	NED TO THIS CO -STANDARD UN	OMPLETION IIT HAS BEEN	UNTIL ALL INT NAPPROVED BY	ERESTS HAVE THE DIVISIO	E BEEN CON DN	SOLIDATED
¹² Dedicated Acres ¹³ Joint of 320	or Infill ¹⁴ Conso	olidation Code 15 Ord	ler No.		L	J <u></u>	
UL or lot no. Section K 4		nge Lot. Idn 34E	Feet from the 2206'	North/South Line South	Feet from the 2052'	East/West line West	County Lea
		Bottom Hole L	ocation If Diff	erent From Surfac	e		
K 4	255	34E	1830'	South	1980′	West	Lea
UL or lot no. Section	Township Rai	nge Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
26485	<u> </u>	Burlingtor	<u>1 Resources</u> (Surface Loca	<u>)il & Gas Compa</u> tion	iny		3361'
			8 Operator N				9 Elevation
014332 7 OGRID No.		Р	<u>itchfork "4"</u>				2
⁴ Property Code		50374	⁵ Property N	ame P1	tchfork Ranc		Well Number
¹ API Number 30-025-3033	51	² Pool Code			³ Pool Name		

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

•

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

> BURLINGTON RESOURCES PITCHFORK "4" FEDERAL, WELL #1 LEA COUNTY, NEW MEXICO RIG: JSI MAST UNIT JOB NUMBER: 777051 05/28/97 T.JALLAD DECLINATION: 8.8 DEGREES EAST (TRUE)

Minimum Curvature Calculations

DLS Deg/100'	0.00	.34	.18	.12	.41	.27	.45	.29	.37	.08	.21	.39	.46	.24
CLOSURES stance Direction Feet DM	N 0 0E	N81 24E N88 7E	S85 32E	S81 4E	S77 14E		S78 24E	S84 9E	S87 1E	S87 39E	S88 51E	N88 24E	N84 43E	N80 25E
C L O Distance Feet	0.00	1.21 4.55	8.43	12.31	15.28	17.74	20.41	21.80	23.56	26.37	29.45	31.72	34.39	39.31
VERTICAL SECTION Feet	0.00	.18	66	-1.91	-3.37	-4.68	-4.11	-2.22	-1.23	-1.08	-59	- 88	3.16	6.55
GULAR NATES East/West Feel	0.00	1.19 E	8.40 E	12.16 E	14.90 E	17.12 E	20.00 E	21.68 E	23.53 E	26.34 E	29.44 E	31.71 E	34.24 E	38.76 E
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M901:21 7001-02-2

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	WELL 41	
BURLINGTON RESOURCES	PITCHFORK "4" FEDERAL,	LEA COUNTY, NEW MEXICO

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Page 2

On Depth North/South Rast/West SECTION Distance Direction Feet Feet Feet E D M E 2999.51 9.26 M 44.43 E 9.26 H 45.39 N78 13E E 3199.37 10.71 N 51.88 E 10.71 S 51.88 E 10.71 S 52.98 N78 13E E 3399.09 13.28 N 61.98 E 13.28 N 74.35 N 87.38 N75 55E E 33996.43 18.74 N 88.64 E 18.74 90.60 N78 35E 175 58 E 4198.34 17.57 N 94.33 E 17.57 90.60 N78 35E 179 55 E 4398.24 18.17 N 100.60 E 18.17 7 197 25 199 17 E 4398.26 17.76 N 118.25 E 17.75 190.00 N82 47E 199.55 E 43997.56 12.0.18 N 142.62 E 14.35 110.10 N80 25E E 5197.31 14.35 N 143.35 142.65 181.75 E	MEASURED	B O R	2 T O H - 2	TRUE Vertical	RECIAN COORDI	GULARNATES	VERTICAL	с г о С	SURES	
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.00 2 49 N 25 45 W 11395.66 1.21 N 76.38 E 1.21 76.39 N89 52 .00 2 2 N 45 10 W 11595.48 8.15 N 71.71 E 8.15 72.18 N83 31E .00 0 56 N 62 17 N 11795.42 11.42 67.75 E 11.42 68.71 N80 26E .00 1 13 N 57 0 11995.38 13.33 N 64.53 E 13.33 65.89 N78 19E .00 2 18 N 61 53 61.43 N74 32E .00 2 18 N 61.53 16.38 52.82 20.56 56.68 N68 44E .00 2 5 N 52.82 2 20.56 56.68 N68 44E .00 2 5 N 52.82 E 20.56 56.68	11200.00			45	11195.92	.3 4	.96	-8.34	80.39		.43
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.00 0.56 N 62 17 M 11795.42 11.42 N 67.75 E 11.42 68.71 N80 26E .00 1 13 N 57 0 W 11995.38 13.33 N 64.53 E 13.33 65.89 N78 19E .00 2 18 N 61 55 W 12195.28 16.38 N 59.20 E 16.38 61.43 N74 32E .00 2 5 N 51 6 56.68 N68 44E .00 2 5 N 51.20 E 16.38 61.43 N74 32E .00 2 5 N 51.20 E 20.56 54.21 N68 44E .00 2 5 N 12595.00 25.71 30.40 54.21 N61 41E .00 1 5 N 12794.93 30.40 30.40 54.27 N55 55E	11600.00			01	11595.48	51.	11.	8.15	72.18		.56
1 13 N 57 0 M 11995.38 13.33 N 64.53 E 13.33 65.89 N78 19E 2 18 N 61 55 W 12195.28 16.38 N 59.20 E 16.38 61.43 N74 32E 2 5 N 51 6 122395.14 20.56 N 52.82 E 20.56 56.68 N68 44E 2 5 N 38 24 W 12595.00 25.71 N 47.72 E 25.71 54.21 N61 41E 1 5 N 15 17 W 12794.93 30.40 44.95 53.71 54.27 N55 55E	11800.00			11	1795	.42	. 75	11.42	68.71		.59
2 18 N 61 5 N 12195.28 16.38 N 59.20 E 16.38 61.43 N74 32E 2 5 N 51 6 W 12395.14 20.56 N 52.82 E 20.56 56.68 N68 44E 2 5 N 38 24 W 12595.00 25.71 N 47.72 E 25.71 54.21 N61 41E 1 5 N 15 17 W 12794.93 30.40 44.95 E 30.40 54.21 N55 55E	12000.00			•	11995.38			13.33	65.89		.15
2 5 N 51 6 W 12395.14 20.56 N 52.82 E 20.56 56.68 N68 44E 2 5 N 38 24 W 12595.00 25.71 N 47.72 E 25.71 54.21 N61 41E 1 5 N 15 17 W 12794.93 30.40 N 44.95 E 30.40 54.27 N55 55E	12200.00			55	12195.28			16.38	61.43		.55
2 5 N 38 24 W 12595.00 25.71 N 47.72 E 25.71 54.21 N61 41E 1 5 N 15 17 W 12794.93 30.40 N 44.95 E 30.40 54.27 N55 55E	12400.00			و	12395.14			20.56	56.68		.23
1 5 N 15 17 W 12794.93 30.40 N 44.95 E 30.40 54.27 N55 55E	12600.00			24	12595.00	.71		25.71	54.21		.23
	12800.00			17	12794.93	.40	.95	4	4		.58

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BURLINGTON RESOURCES PITCHFORK "4" FEDERAL, WELL #1 LEA COUNTY, NEW MEXICO

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BURLINGTON RESOURCES PITCHFORK "4" FEDERAL, WELL #1 LEA COUNTY, NEN MEXICO

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DLS Deg/100'	.27 .44 .18 .12 .09
CLOSURES Distance Direction Feet DM	N51 48E N47 20E N42 37E N37 40E N33 21E
C L O Distance Feet	54.76 56.23 59.57 63.70 68.34
VERTICAL SECTION Feet	33.85 38.11 43.83 50.42 57.09
G U L A R N A T E S East/West Feet	43.04 E 41.35 E 40.33 E 38.93 E 37.57 E
RECTANGULAR COORDINATES North/South East/West Feet	33.85 N 38.11 N 43.83 N 50.42 N 57.09 N
TRUE 8 Vertical (Depth N Feet	12994.89 13194.83 13394.75 13594.63 13794.52
BORE~HOLE Incl. Direction D M D M	N 41 9 14 N 6 0 16 N 13 24 16 N 12 24 16 N 12 23 14
B O R Incl. D M	1 14 1 31 1 49 1 51 1 51
MEASURED Depth Feet	13000.00 13200.00 13400.00 13600.00 13800.00

N 33 21 E 'Final Station Closure Distance: 68.34 Feet; Direction:

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