Form 3160 (July 1992)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIPLICATE

EXPEDITED Right-of-Way

DI.	BUREAU OF LAND MANA	GEMENT		5. LEASE DESIGNA		CRIAL NO.
APPLICAT	TION FOR PERMIT TO	DRILL OR DEEPEN	1	NM-014110		
	TOTAL			6. IF INDIAN, ALLO NA	TTEE OR TR	IBE NAME
DRILL X	DEEPEN]		7. UNIT AGREEME NA	NT NAME 289	18 4624
OIL WELL []	OTHER SINGLE ZONE	MULTIPLE ZON	в 🗆	8. FARM OR LEAS Walker 2C	ENAME, WELL	es Koch
2. NAME OF OPERATOR Koch Exploration Compa		Resources		9. API WELL NO. 3 C - C 4	15-3	0746
3. Address and telephone no. P.O. Box 489, Aztec, NA	4_(505) 334.9 111_	State requirements *1		10. FIELD AND POO Bianco Mesa		TA1
At surface 885	oftion clearly and in accordance with any G65 FSL & 1755 FWL Same	ii. sec., t., r., m., or blk and survey or area S10, T31N, R10W (N)				
	CTION FROM NEAREST TOWN OR	POST OFFICE*		12, COUNTY OR PA San Juan	RISH	13. STATE NM
15. DISTANCE FROM PROPOSED* NEAREST PROPERTY OR LEASE L	LOCATION TO	16. NO. OF ACRES IN LEASE	17. NO. OF ACR	ES ASSIGNED TO TH	IS WELL 3,89 S/2	
nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED* NEAREST WELL, DRILLING, COM APPLIED FOR ON THE LEASE, FT.	LOCATION TO PLETED, OR 425'	19. PROPOSED DEPTII 5700'	20. ROTARY OR		Rotary	
21. ELEVATIONS (Show whether DF,				22. APPROXIMATI	E DATE WORI 10/1/	
23		PROPOSED CASING AND	CEMENTING PRO	GRAM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT		G DEPTH	QU.	112
12 1/4"	9 5/8" J-55	36#		0' +/-		410
8 3/4"	7" J-55	23#		00' +/- 700'		216
6 1/4"	4 1/2" J-55	10.5#	<u> </u>			
This action is subject to procedural review pursus and appeal pursuant to a	ant to 43 CFR 3165.3	/ FED ED:	"GE	JECT TO COM NERAL REQU		UTHORIZED ARE E WITH ATTACHED TS"
€ =						
IN ABOVE SPACE DESCRIBE PROPO on subsurface locations and measured an	OSED PROGRAM: If proposal is to deepe t true vertical depths. Give blowout preve	en, give data on present productive zone enter program, if any.	and proposed new pro			
24 SIGNED:	10 	TITLE: Operations Manager		-	DATE: 7	120/01
(This space for Federal or State office us			APPROVAL DA			
Application approval does not warrant o CONDITIONS OF APPROVAL, IF AN	r certify that the applicant holds legal or ed NY:			ntitle the applicant to con		
/s/ David	J. Markiewicz	TITLE: AFM			DATE 🗸	2/1/02

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

Form C-102 Revised August 15, 2000

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

DISTRICT IV

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

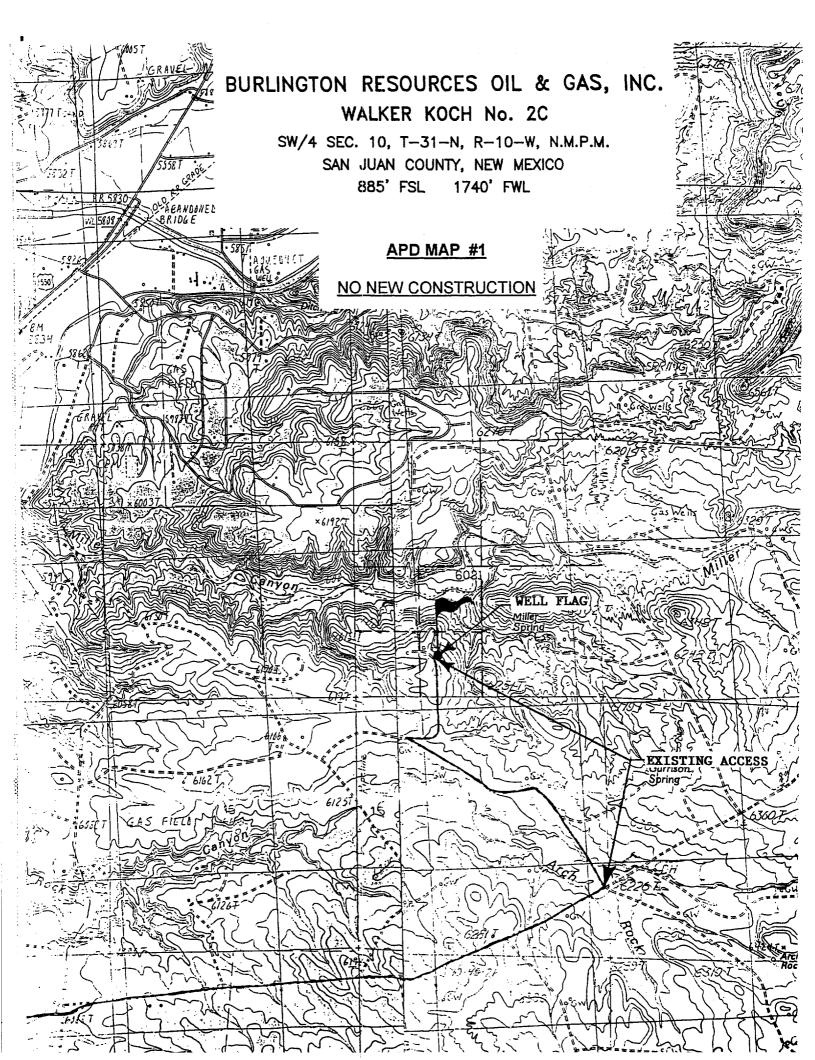
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☐ AMENDED REPORT

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

2040 South Pacheco, Santa Fe. NM 87806 WELL LOCATION AND ACREAGE DEDICATION PLAT

				Pool Code	AND	7010	EAGE DEDIC	Pool Name			
30-045	307	46		71599	i	Blar	nco Mesaverdo				·
4Property Co		185	112313	7711377	⁶ Prop					e Well	Number
2891	$\bar{\varrho}$				WAL	KER	KOCH				2C
7 OGRID No.	-				*Oper	perator Name			• 1	levation	
			1	BURLINGTO	LINGTON RESOURCES OIL & GAS, INC.				62	:09'	
14538			<u> </u>		10 C		Location				
UL or lot no.	Section	Township	Range	Lot kin	Feet from		North/South line	Feet from the	Rest	/Vest line	County
N N	10	31-N	10-W		885		SOUTH	1740	WEST		SAN JUAN
<u> </u>			11 Botte	om Hole	Location	on I	Different Fro	m Surface			
UL or lot no.	Section	Township	Range	Lot ldn	Feet from	the	North/South line	Feet from the	Res	t/West line	County
Dedicated Acres MV/S/329 DK:/313.		<u> </u>	33 Joint or	infill	M Consolida	ition C	code	Morder No.	<u> </u>		<u> </u>
NO ALLOW	ABLE W	OR A	ASSIGNET NON-STA	D TO TH	IS COMPI	LETIC S BE	ON UNTIL ALL EEN APPROVED	INTERESTS BY THE DI	HAVE I	BEEN C	ONSOLIDATE
Reissued	l to Sh		d Locat	ion	LOT 2		LOT 1	f hereby is true o belief. Signal Pegg Printe	y Cole d Name	t the informe	of my browledge of
LOT 4 FD 3 1/4" BLM BC.1968			LOT 5	10 ==	LOT	6	LOT 7			2 - 10	0-01.:
NM -014		LA	NCKEY	LONG.1	6°54'29.8' 07'52'18.9 . 1927)	" W.	LOT 8 NM-0141	2 hereby was plot ma or w		the well lose of the ball of t	ERTIFICATI
174 NM- LOT	-014110 10	445'	850' LOT 11	FD 3	1/4"		LOT	Sgan	or Sures	8894	



UNITED STATES

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

		5.	Lease Number
			NM-014110
Type of Well GAS		6.	If Indian, All. or Tribe Name
	·	7.	Unit Agreement Name
Name of Operator			
BURLINGTON RESOURCES OIL			
RESOURCES OIL	& GAS COMPANY	8.	Well Name & Number
Address & Phone No. of Operat	tor		Walker Koch 2C
PO Box 4289, Farmington, NM	87499 (505) 326-9700		API Well No. 30-045-
Location of Well, Footage, Se	ec., T, R, M	10.	Field and Pool
885'FSL, 1740'FWL, Sec.10, T	-31-N, R-10-W, NMPM	11.	Blanco MV/Basin Dako County and State San Juan Co, NM
2. CHECK APPROPRIATE BOX TO IN	DICATE NATURE OF NOTICE	, REPORT, OTHER	DATA
Type of Submission	Type of Ac	tion X Change of	
X_ Notice of Intent	Abandonment Recompletion	New Construc	tion
Subsequent Report	Plugging Back _	Non-Routine	Fracturing
	Casing Repair _	Water Shut o	o Injection
	Altaring Caging		
Final Abandonment	Altering Casing _ Other -	Conversion c	5 2
3. Describe Proposed or Comp	Other Deted Operations at well has been moved.		· ·
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3. Describe Proposed or Comp The location of the subject cut & fill diagram, and to	Other pleted Operations by well has been moved. by map.	Attached is th	ne revised C-102 plat,

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells		-
	5.	Lease Number NM-014110
	6.	
1. Type of Well GAS	0.	Tribe Name
	7.	Unit Agreement Nam
2. Name of Operator		
BURLINGTQN		
RESOURCES OIL & GAS COMPANY	8.	Well Name & Number
3. Address & Phone No. of Operator		Walker Koch #2C
PO Box 4289, Farmington, NM 87499 (505) 326-9700	9.	API Well No. 30-045-
4. Location of Well, Footage, Sec., T, R, M	10.	Field and Pool
665'FSL, 1755'FWL, Sec.10, T-31-N, R-10-W, NMPM	11.	Blanco MV/Basin Di County and State
		San Juan Co, NM
12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, RE	PORT, OTHER	DATA
man of Cubmission Type of Action	L.	
Y Nation of Intent Abandonment X C	hange of Pla	ans
Recompletion N	New Construction-Routine	tion Fracturing
Subsequent Report — Plugging Back — N Casing Repair — W	later Shut of	ff
Final Abandonment Altering Casing C	Conversion to	o Injection
X Other - Name change		
		<u> </u>
- II becaused on Completed Operations		
13. Describe Proposed or Completed Operations		
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The well name of the subject well has been changed for Walker Koch #2C. Attached is the revised C-102 plan is intended to add the Dakota formation to the suplan will be altered according to the attached. 14. I hereby certify that the foregoing is true and cornsigned when the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing is true and cornsidered to state of the foregoing	rect.	The operations O
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OPERATIONS PLAN

Well Name: Walker Koch #2C

665'FSL, 1755'FWL, Sec 10, T-31-N, R-10-W Location:

San Juan County, NM

Latitude 36° 54.28, Longitude 107° 52.20

Formation: Blanco Mesaverde/Basin Dakota

6204 'GL Elevation:

Formation Tops:	Top	Bottom	Contents
Surface	San Jose	1466'	
Ojo Alamo	1466'	1516 '	aquifer
Kirtland	1516 '	2366 ′	gas
Fruitland	2366'	2996'	gas
Pictured Cliffs	2996'	3116'	gas
Lewis	3116'	3706'	gas
Intermediate TD	3216'		
Mesa Verde	3706 ′	4116′	gas
Chacra	4116'	4801′	gas
Massive Cliff House	4801'	4876'	gas
Menefee	4876'	5246 ′	gas
Massive Point Lookout	5246'	5626'	gas
Mancos	5626 ′	6546 ′	gas
Gallup	6546 ′	7249′	gas
Greenhorn	7249'	7306'	gas
Graneros	7306'	7362'	gas
Dakota	7362 ′	7664 ′	gas
Morrison	7664'		_
TD	7710′		

Logging Program:

Cased hole - CBL-CCL-GR - TD to surface

Open hole - DIL/GR, Density & Neutron Porosity, Bulk Density/ Correction, Microlog, Temp - TD to minimum operations depth Mudlog - 6800' to TD Cores - none

Mud Program:

d Prog	<u>ram:</u>				
Inte	rval	Туре	Weight		Fluid Loss
0-	200'	Spud	8.4-9.0	40-50	no control
200-	3216'	LSND	8.4-9.0	30-60	no control
3216-	7312'	Air/N2		n/a	n/a
7312-	7710 ′	LSND	8.4-9.0	30-60	no control

Pit levels will be visually monitored to detect gain or loss of fluid control.

Casing Program (as listed, the equivalent, or better):

Hole Size	Depth Interval	Csg.Size	Wt.	
12 1/4"	0' - 200'	9 5/8"	32.3#	
8 3/4"	0' - 3216'	7"	20.0#	
6 1/4"	3116' - 7710'	4 1/2"	10.5#	J-55

Tubing Program:

0' - 7710' 2 3/8" 4.7# J-55

BOP Specifications, Wellhead and Tests:

Surface to Intermediate TD -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out surface casing, rams and casing will be tested to 600 psi for 30 minutes.

Intermediate TD to Total Depth -

11" 3000 psi minimum double gate BOP stack (Reference Figure #1). After nipple-up prior to drilling out intermediate casing, rams and casing will be tested to 1500 psi for 30 minutes.

Surface to Total Depth -

2" nominal, 3000 psi minimum choke manifold (Reference Figure #3).

Completion Operations -

7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). After nipple-up prior to completion, pipe rams, casing and liner top will be tested to 2000 psi for 15 minutes.

Wellhead -

9 5/8" x 7" x 2 3/8" x 3000 psi tree assembly.

General -

- Pipe rams will be actuated once each day and blind rams will be actuated once each trip to test proper functioning.
- An upper kelly cock valve with handle available and drill string valves to fit each drill string will be available on the rig floors at all times.
- BOP pit level drill will be conducted weekly for each drilling
- All BOP tests and drills will be recorded in daily drilling reports.
- Blind and pipe rams will be equipped with extension hand wheels.

Cementing:

9 5/8" surface casing - cement with 159 sx Class "B" cement with 1/4# celloflake/sx and 3% calcium chloride (188 cu.ft. of slurry, 200% excess to circulate to surface). WOC 8 hrs. Test casing to 600 psi for 30 minutes.

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

7" intermediate casing -

Lead w/330 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx. Tail w/90 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent (966 cu.ft. of slurry, 100% excess to circulate to surface.) WOC minimum of 8 hours before drilling out intermediate casing. If cement does not circulate to surface, a CBL will be run during completion operations to determine TOC. Test casing to 1500 psi for 30 minutes.

See attached alternative intermediate lead slurry.

7" intermediate casing alternative two stage: Stage collar at 2266'. First stage: cement with 223 sx 50/50 Class "G" Poz w/2% calcium chloride, 2% gel, 1/4 pps celloflake, 5 pps gilsonite, 0.1% antifoam agent. Second stage: 264 sx 50/50 Class G/TXI lightweight w/2.5% sodium metasilicate, 2% calcium chloride, 10# gilsonite/sx and 1/2# celloflake/sx (966 cu.ft., 100% excess to circulate to surface).

Cement nose guide shoe on bottom with float collar spaced on top of shoe joint. Bowspring centralizers spaced every other joint off bottom, to the base of the Ojo Alamo at 1516'. Two turbolating centralizers at the base of the Ojo Alamo at 1516'. Bowspring centralizers spaced every fourth joint from the base of the Ojo Alamo to the base of the surface casing.

- 4 1/2" Production Casing Cement to cover minimum of 100' of 4 1/2" x 7" overlap. Lead
 with 458 sx 50/50 Class "G" Poz with 5% gel, 0.25#
 celloflake/sx, 5# gilsonite/sx, 0.1% retardant and 0.25% fluid
 loss additive, 0.15% dispersant, 0.1% antifoam agent (660
 cu.ft.), 40% excess to cement 4 1/2" x 7" overlap). WOC a
 minimum of 18 hrs prior to completing.
- 4 1/2" production casing alternative: Lead w/184 sx 9.5 PPG
 Litecrete Blend w/0.11% dispersant, 0.5% fluid loss. Tail w/169
 sx Class G 50/50 poz w/5% gel, 0.25 pps celloflake, 5 pps
 gilsonite, 0.25% fluid loss, 0.15% dispersant, 0.1% retarder,
 0.1% antifoam (707 cu.ft., 50% excess to cement 4 ½" x 7"
 overlap).

Note: If open hole logs are run, cement volumes will be based on 25% excess over caliper volumes.

Cement float shoe on bottom with float collar spaced on top of float shoe.

- Note: To facilitate higher hydraulic stimulation completion work, no liner hanger will be used. In its place, a long string of 4 1/2" casing will be run and cemented with a minimum of 100' of cement overlap between the 4 1/2" x 7" casing strings. After completion of the well, a 4 1/2" retrievable bridge plug will be set below the top of cement in the 4 1/2" x 7" overlap. The 4 1/2" casing will then be backed off above the top of cement in the 4 1/2" x 7" overlap and laid down. The 4 1/2" bridge plug will then be retrieved and the production tubing will be run to produce the well.
- If hole conditions permit, an adequate water spacer will be pumped ahead of each cement job to prevent cement/ mud contamination or cement hydration.

Special Drilling Operations (Gas/Mist Drilling):

The following equipment will be operational while gas/mist drilling:

- An anchored blooie line will be utilized to discharge all cuttings and circulating medium to the blow pit a minimum of 100' from the wellhead.
- The blooie line will be equipped with an automatic igniter or pilot light.
- Compressors will be located a minimum of 100' from the wellhead in the opposite direction from the blooie line.
- Engines will have spark arresters or water cooled exhaust.
- Deduster equipment will be utilized.
- The rotating head will be properly lubricated and maintained.
- A float valve will be utilized above the bit.
- Mud circulating equipment, water, and mud materials will be sufficient to maintain control of the well.