UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

DIST. 3

	AP	PLICATION FOR PERMIT TO DRILL, DEEPE	N, OR PLUG BACK
1a.	Type of Work DRILL	Land Control of MEIN	5. Lease Number บรล ทท-ชุ555078
		MAR 1 4 2008	Unit Reporting Number
1b.	Type of Well GAS	Bureco of Land Management Farmington Field Office	6. If Indian, All. or Tribe
2.	Operator		7. Unit Agreement Name
	BURLINGTO	DN ES Oil & Gas Company, LP	•
3.	Address & Phone		8. Farm or Lease Name
	PO BOX 426	9, Farmington, NM 87499	Helms Federal 9. Well Number
	(505) 326-	9700	#1G
4.	Location of Well		10. Field, Pool, Wildcat
	Surf:Unit C(NENW), 1080' FNL & 1770' FWL	Basin Dakota
			11. Sec., Twn, Rge, Mer. (NMPM)
	Surf: Latitu Longitude 10	de 36.80209° N	C Sec. 22, T30N, R10W
	bongredde ro	7.07403 W	API # 30-045-34654
14.		from Nearest Town	12. County 13. State
	9 miles/Azte	c	San Juan NM
15.	Distance from Pr	oposed Location to Nearest Property or Lease Li	ne
16.	Acres in Lease		17. Acres Assigned to Well
	323.84		323.84 Acres - (W/2)
18.	Distance from Pro 350' from He	oposed Location to Nearest Well, Drlg, Compl, or lms Federal #1A - MV/DK	Applied for on this Lease
19.	Proposed Depth		20. Rotary or Cable Tools
	7505′		Rotary
21.	Elevations (DF, F	T, GR, Etc.) This action is subject to technical and	22. Approx. Date Work will Start
	6319 GR	procedural review pursuant to 43 CFR 3165 8 and appeal pursuant to 43 CFR 3165 8	DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED
23.		and Cementing Program	"GENERAL REQUIREMENTS".
	See Operat:	ions Plan attached	_ 1 _ 1
24	Authorized by:	Copial Walle	3/14/08
	(Crystal Walker (Regulatory Technici	an) / Øate
PERMI	T NO. A	APPROVAL DA	TF
		1.0	
APPRO	OVED BY	un what TITLE Acting 1	Musels DATE 4 9/08
	eological Report att		ZTEC OCD 24 HRS.
NOTE.	This format is inquest in	liqueful C PIM Form 2160.2	
Title 18 States a	U.S.C. Section 1001, m	nakes it a crime for any person knowingly and willfully to ma ludulent statements or presentations as to any matter within	ake'tō any department or agency of the United
	ple Master Pla	· · · · · · · · · · · · · · · · · · ·	00015 and NMB-000089



DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

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

OIL CONSERVATION DIVISION C Submit to Appropriate District Office
1220 South St Pro-

1220 South St. Francis Dr. Santa Fe, NM 87505

MAR 1 4 2008

a of Land mattagement AMENDED REPORT

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDIGATION HPLAT

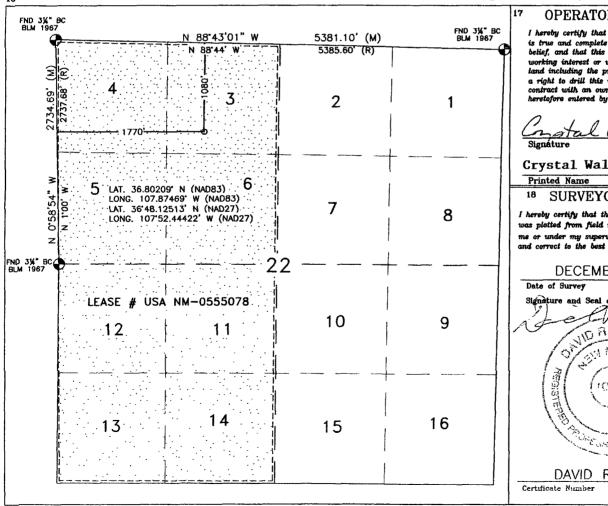
^a Pool Code 71599	³Pool Name BASIN DAKOTA			
	⁵ Property Name			
HELM	S FEDERAL	1 G		
⁶ Ope	rator Name	⁰ Elevation		
BURLINGTON RESOURCES	ES OIL AND GAS COMPANY LP 6			
	71599 *Pro HELM *Ope	71599 BASIN DAKOTA		

¹⁰ Surface Location

UL or lot no.	Section 22	Township 30N	Range 10W	Lot Idn 3	Feet from the 1080'	North/South line NORTH	Feet from the 1770'	East/West line WEST	County SAN JUAN
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
С						,			
12 Dedicated Acres			¹³ Joint or	Infill	14 Consolidation C	ode	¹⁵ Order No.		
323.84 A	cres -	(W/2)	in in the		-			wi A	

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.

Crystal Walker 3-14-08

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plai 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.

DECEMBER 21, 2007

OF MELLIN TO MENO Checosional La

DAVID RUSSELL

10201

	State of New Mexico	Form C-103
Office District I	Energy, Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-045-341054
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	5. Indicate Type of Lease
District III	1220 South St. Francis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750	05	NM-0555078
	ES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
L	TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
DIFFERENT RESERVOIR. USE "APPLICATION PROPOSALS")	ON FOR PERMIT" (FORM C-101) FOR SUCH	Helms Federal
1. Type of Well:		8. Well Number
Oil Well Gas Well X	Other	#1G
2. Name of Operator	NUDGES OH & CAS COMBANY LD	9. OGRID Number
3. Address of Operator	OURCES OIL & GAS COMPANY LP	14538 10. Pool name or Wildcat
	EET, FARMINGTON, NM 87402	Basin Dakota
4. Well Location	1080	1770
Unit Letter C : 4 Section 22	feet from the North line and Township 30N Rng 10	H741 feet from the West line W NMPM County San Juan
	Elevation (Show whether DR, RKB, RT, GR, etc.)	
Pit or Below-grade Tank Application	6322' GR	
		>200
Pit type New Drill Depth to Groundw Pit Liner Thickness: 12	vater >100' Distance from nearest fresh water well mil Below-Grade Tank: Volume 44	>1000' Distance from nearest surface water →1000' Distance from Material
. 1.	Appropriate Box to Indicate Nature of No	• •
-	ITENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK TEMPORARILY ABANDON	I	AL WORK NCE DRILLING OPNS. P AND A
PULL OR ALTER CASING		CEMENT JOB
		
OTHER: New	Drill X OTHER:	
	Drill X OTHER:	give pertinent dates, including estimated date
13. Describe proposed or complete of starting any proposed work)	brill X OTHER: ed operations. (Clearly state all pertinent details, and SEE RULE 1103. For Multiple Completions: Atta	
13. Describe proposed or complete	ed operations. (Clearly state all pertinent details, and	
13. Describe proposed or complete of starting any proposed work)	ed operations. (Clearly state all pertinent details, and	
13. Describe proposed or complete of starting any proposed work)	ed operations. (Clearly state all pertinent details, and	
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13. Describe proposed or complete of starting any proposed work) or recompletion. New Drill, Lined:	ed operations. (Clearly state all pertinent details, and see RULE 1103. For Multiple Completions: Atta	ach wellbore diagram of proposed completion
13. Describe proposed or complete of starting any proposed work) or recompletion. New Drill, Lined: Burlington Resources proposes to continuous describes the continuous describes and describes and describes described by the continuous describes and describes described by the continuous describes and describes described by the continuous describes described by the continuous describes described by the continuous descr	ed operations. (Clearly state all pertinent details, and see SEE RULE 1103. For Multiple Completions: Attainment Attainment of the second seco	ach wellbore diagram of proposed completion and a pre-set mud pit (if required). Based on
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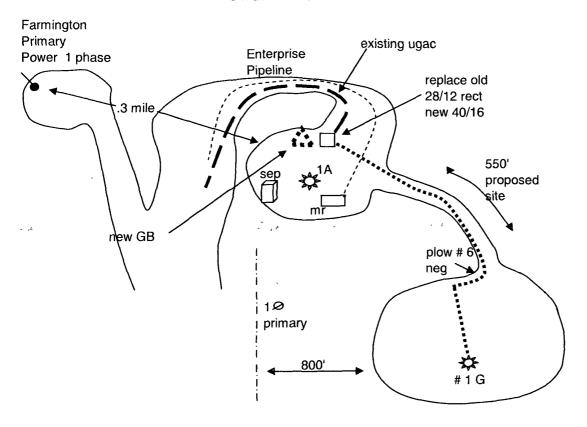
Cathodic Plat

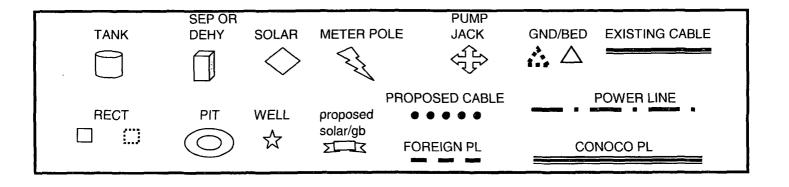
N ♠

HELMS FED #1G

1-7-08

old GB = 2.4 ohm







PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HELMS FEDERAL 1G

DEVELOPMENT

Lease:					AFE #: WA	N.CDR.	7438		AFE \$: 646,278.50
Field Name: hBR	LSAN JUAN		Rig: H	&P Rig 283			State: NM	County: SAN JUAN	API #:
Geologist:			Phone:			Geoph	nysicist:		none:
	lead, Chip F		Phone:	505-326-97	772		Engineer:	Ph	none:
Res. Engineer: Pt		/u			11	Proj. F	ield Lead;	Pt	none:
Primary Object									
Zone	Zone Name]				
FRR	BASIN DAKO	TA (PRORATE	D GAS)					
and or sea from the last 125 and the last the			eredeste seenes						
Location: Sugar	Courses where profession is not	Datum, Coo		D 27		CY ST			ey straightean
Latitude: 36.8022		ude: -107.87		X:		Y:		Section: 22	Range: 010W
Footage X: 1741		ge Y: 1039 FN	1L	Elevation: 63	322	(FT)	Township: 030N		
Tolerance:	0,	1080,		Western Park Company and Company			No.		
Location Type: Ye	ear Round	,	Start D	oate (Est.): 1/	1/2009	Con	npletiổn Datè:	Date In Op	peration:
Formation Data:	Assume KB	= 6334 L	Jnits =	FT					
Formation Call &		Depth	SS	Depletion	BHP	внт		Remarks	
Casing Points		(TVD in Ft)	(Ft)	(Yes/No)	(PSIG)	Drii			
Surface Casing		200	6134					00' 9 5/8" 32.3 ppf, H-40 Circulate cement to surfac	
OJO ALAMO		1657	4677				With 105 care. c	arculate terrene to santa	C.
KIRTLAND		1739	4595						
FRUITLAND		2541	3793				Possible Gas		
PICTURED CLIFFS		2964	3370						
LEWIS		3086	3248						
Intermediate Casin	ıg	3186	3148					, 20 ppf, J-55, STC Casing	g. Cement with 718
HUERFANITO BENT	TONITE	3679	2655	П			cutt. Circulate c	ement to surface.	
CHACRA	101111	3942	2392	Ϊ					
MASSIVE CLIFF HO	Duse	4549	1785) L			Gas		
MENEFEE	,001	4731	1603	ī			000		
MASSIVE POINT LO	окоит	5231	1103						
MANCOS		5564	770						
UPPER GALLUP		6454	-120						
GREENHORN		7194	-860						
GRANEROS		7247	-913						
TWO WELLS		7297	-963		1800		Gas		
PAGUATE		7391	-1057						
CUBERO		7441	-1107						
ENCINAL		7505	-1171				- د		
TOTAL DEPTH DK		7505	-1171				6 1/4 hole 4 1/2	2" 10.5 ppf J-55 Casing. C	ement with 588 cuft
Reference Wells	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			olection.		Ci	tulate cen	nent minimum	100 EF
Reference Type	Well Name			Comments	į	in.	side 3" c		

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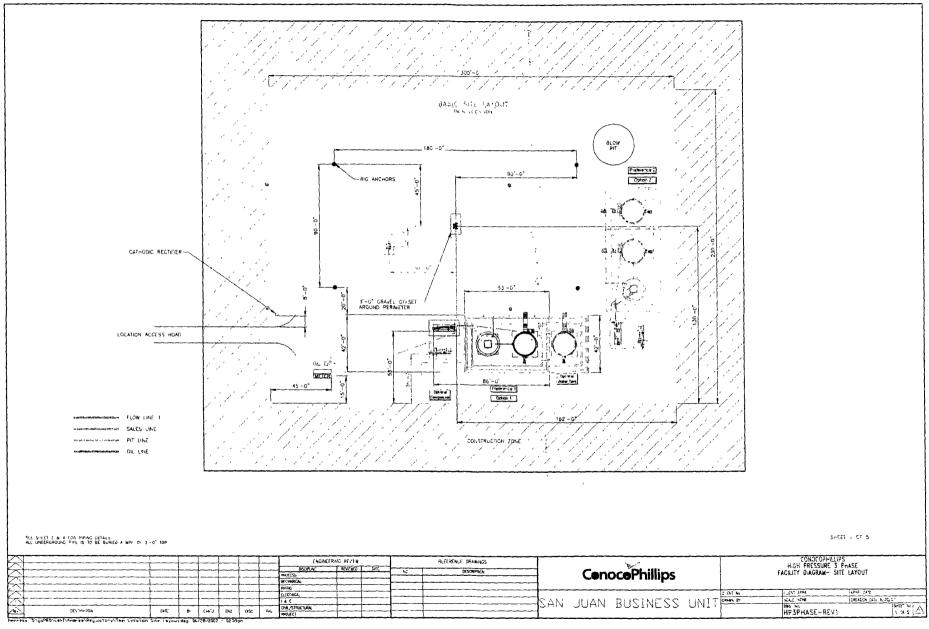
PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HELMS FEDE	RAL 1G			DEVELOPMENT					
Logging Program: Intermediate Logs: Loq only if show GR/ILD Triple Combo									
TD Logs:	☐ Triple Com	ho Dinmeter	ПретПо	onic 🔲 VSP 🔲 TDT 🗹 Othe	ır				
10 2043.		rf ~15' above TD.	<u> </u>	75F					
Additional Information:									
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks				

The growing state of the second secon

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LATITUDE: 36.80209°N LONGITUDE: 107.87469°W DATUM: NAD 83

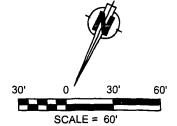
SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

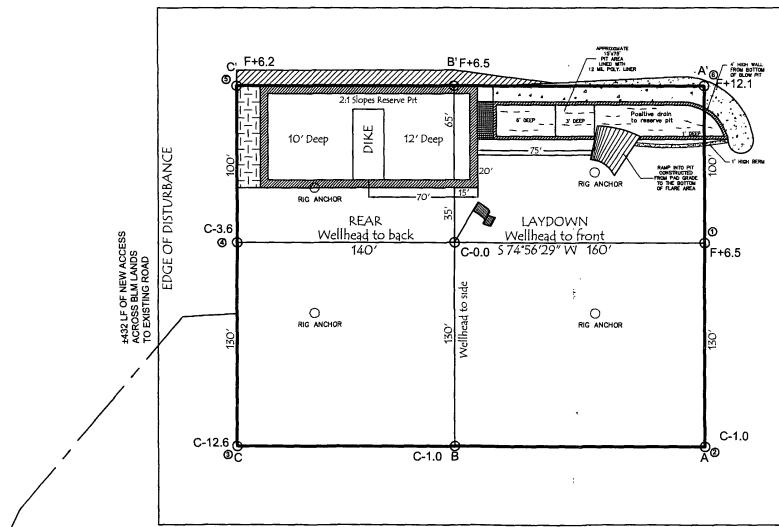
BURLINGTON RESOURCES O&G CO LP

HELM FEDERAL #1 G 1080' FNL & 1770' FWL LOCATED IN THE NE/4 NW/4 OF SECTION 22, T30N, R10W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6319', NAVD 88 FINISHED PAD ELEVATION: 6318.7', NAVD 88





330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" = 60'
JOB No.: COPC131
DATE: 01/11/08

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW — 3' WIDE AND 1' ABOVE SHALLOW SIDE).
RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE—CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR
CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

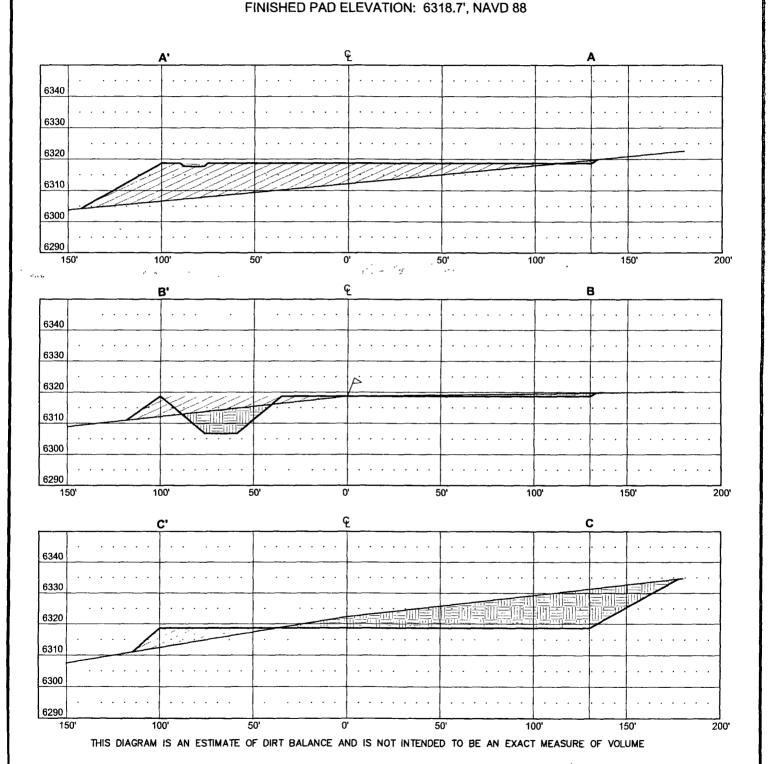


Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637 LATITUDE: 36.80209°N LONGITUDE: 107.87469°W DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

HELM FEDERAL #1 G 1080' FNL & 1770' FWL LOCATED IN THE NE/4 NW/4 OF SECTION 22,

T30N, R10W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6319', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: COPC131 DATE: 01/11/08





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