Form 3160-5 April 2004)

# UNITEDS STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMEN

FORM	APPROVEI
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April 2004)	Г	JELAK I IVI	CMI OF ITI	EINI	ERIOR					OMB NO 1	004-0137			
	В	UREAU O	F LAND MA	ANAG	EMENT					Expires Ma	rch 31, 2007			
							•	·		se Serial	No.			
	<u></u>						NM 8654							
	Do not use th							-1	6. If	Indian, A	Allotte or Tr	ibe Name		
	abandoned w	ell. Use For	n 3160 - 3 (A	PD) for	r such prop	osals.	II / Tom I	) (						
							MEL	<del>-+</del>	7. If u	mit or CA/	Agreement, N	ame and/or	No.	
SUBA	MIT IN TRIPLIC	ATE - Other	instructions	on reve	<del>-\</del>	- 0	010 d.	<del></del>	ļ					
1 Type of Well					- 1	Ybk -	- 5 2010 - 5 ARTE	-12	8. Wel	1 Name and	i No.			
	Oil Well	Gas Well	Other				ARTE	SIA	Foal	"20" Fe	deral #1			
2 Name of Oper	rator				Mu	1001			9. AI	PI Well No	•			
ŞUNDOWN	ENERGY LP								30-01	5-28988				
3a Address		,				3b Phone	No. (include a	rea code)	10. Fie	eld and Po	ol, or Explor	atory Area		
13455 NOEI	L RD, STE. 2000	, DALLAS, T	TX 75240			214-36	8-6100		Dublin	Ranch (Mo	rrow)			
	Vell (Footage, Sec., T.,		Description)						11. C	ounty or P	arish, State			
-	SEC20-T-22S	=							Eddy	, NM			_	
660' FNL	& 1980' FWL	,												
									<u> </u>					
	CHECK APPROP	RIATE BOX	(ES) TO IND				CE, REPO	ORT, OR	OTHER	DATA				
TYPE OF S	UBMISSION	<del> </del>		TYPI	E OF ACTIO	N T		/O:	-	L f	Water Shut-Off	Ē		
Notice of I	Intant	Acidiz	* .	H	Deepen Fracture Treat	. ۲	Production		ie)	l I	Other		•	
Subsequent		Alter Ca	-	H	New Construction		Reclamation Recomplete			l	Other			
	idonment Notice	Change	•	$\equiv$	Plug and Abando		Temporarily							
L. Final Atlan	igoninent 140tice		to Injection	H	Plug Back	<u>.</u> _	Water Dispo							
If the pro Attach th following	Proposed or Completoposal is to deepen do not be Bond under which is completion of the invasional been completed.	irectionally or re the work will be volved operation	ecomplete horizon performed or proms of the operations	ontally, gr ovide the on results	ive subsurface Bond No on fi s in a multiple c	locations a ile with BLI completion	and measured M/BIA Requir or recompletion	i and true vi red subsequ on in a new	ertical dep Jent report Interval, a	ths of all pert ts shall be file a Form 3160-	inent markers and ed within 30 days 4 shall be filed on	d zones		
	ed that the site is rea										•			
	duced water is													
	ter is disposed						·180 loca	ted in S	ec 16,	T21S-R2	27E and also	at the		
	te DU. Permit		ocated in S	ec 36	, 1228-R2	:/E.				400	EDTED	ron I		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	ter analysis is s analysis is at		SEE A	<b>\TT</b>	<b>ACHE</b>	DF(	)R			AUU	EPTED	<b>FUK</b> I	くとし	UKL
	BJECT TO		CONI	ПТІ	ONS (	DE A	DDDO	<b>37 A T</b>						1
API	PROVAL B	Y STAT	E	7111		_								
1 88 1	2 E C V 1 2				1	<b>Acc</b>	pled to		ord		MAR	3 1 201	0	
14 I hereby ces	rtify that the foregoing i	s true and correc	t				MMOC	-DIA				Vhitlock		
Name (Print	ted/Typed)						t	1/201	, c					
T:	Y						D 1			BUI	REAU OF LA	ND MAN	AGEM!	ENT
Jim	my Lewis					Title		tion Fo	reman		CARLSBAD	FIELD OF	FICE	
Signature	Jum	Lens				Date	3-29							
	<u>/_ /_</u>	THIS S	PACE FOI	R FEI	DERAL C	R STA	ATE OF	FICE U	SE					
Approved by							Title				Date			
	pproval, if any, are atta	ched Approval o	f this notice does	not warra	nt or									
certify that the	applicant holds legal or	equitable title to	those right in the s	uject lease	;		Office							
which would en	ntitle the applicant to co	nduct operations	thereon									1		
USC														

(Instructions on page 2)

Section

### **MITCHELL ANALYTICAL LABORATORY**

2638 Faudree Odessa, Texas 79765-8538 561-5579

Company:	Nalc	o Comp	any					
Well Number: Lease: Location: Date Run: Lab Ref #:	Sundo 3/18/2	0 Fed #1 own Energy 2010 ar-n52888				Sample Temp: Date Sampled: Sampled by: Employee #: Analyzed by:	70 3/12/20: Chad Wo 27-016 DOM	
,				Dissolved G	ases			
				2 100017001	4505	Mg/L	Eq. Wt.	MEq/L
Hydrogen Su		(H2S)				.00	16.00	.00
Carbon Dioxid Dissolved Ox		(CO2) (O2)		NOT ANAI			,	
				Cations				
Calcium		(Ca++)				924.60	20.10	46.00
Magnesium		(Mg++)				273.28	12.20	22.40
Sodium		(Na+)				8,641.26	23.00	375.71
Barium		(Ba++)		NOT ANAL	YZED			
Manganese		(Mn+)				2.37	27.50	.09
				Anions				
Hydroxyl		(OH-)				.00	17.00	.00
Carbonate		(CO3=)				.00	30.00	.00
BiCarbonate		(HCO3-	-			12.22	61.10	.20
Sulfate		(SO4=)				11.00	48.80	.23
Chloride		(CI-)				15,817.38	35.50	445.56
Total Iron		(Fe)				33.34	18.60	1.79
Total Dissolv						25,715.45		
Total Hardne						3,431.95		
Conductivity	MICRON	4HOS/CM				49,700		
pН	5.730	0			Specif	fic Gravity 60/6	0 F.	1.018
CaSO4 Solubi	lity @ 80	) F.	31.	12MEq/L,	CaSO4	scale is unlikely	у	
CaCO3 Scale Ir	ndex							
70.0	-2	2.884	100.0	-2.524	130	0.0 -1.94	14	
80.0	-2	2.754	110.0	-2.264	140			
	_				. , ,			

-2.264 150.0

-1.644

90.0

-2.524

120.0



#### Laboratory Services, Inc. 2609 West Marland

Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Sundown Energy

Attention: Wes Ables

P.O. Box 1567

Carisbad, New Mexico 88221

SAMPLE: Meter Run

IDENTIFICATION Foal Fed. 20 #1 Sundown Energy

COMPANY: LEASE:

PLANT:

SAMPLE DATA: DATE SAMPLED: 3/12/10 12:20 pm ANALYSIS DATE:

3/15/10

20

GAS (XX) SAMPLED BY: LIQUID ( )

ANALYSIS BY:

Will McDaniel

SAMPLE TEMP. °F ATMOS, TEMP. °F

PRESSURE - PSIG

62

Vicki McDaniel

REMARKS:

H2S = 1.2-PPM

#### COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
		• • • • • • • • • • • • • • • • • • • •	)
Hydrogen Sulfide	(H2S)		,
Nitrogen	(N2)	0.412	
Carbon Dioxide	(CO2)	1.059	
Methane	(C1)	96.718	
Ethane	(C2)	1.540	0.411
Propane	(C3)	0.214	0.059
I-Butane	(IC4)	0.025	0.008
N-Butane	(NC4)	0.032	0.010
I-Pentane	(IC5)	0.000	0.000
N-Pentane	(NO5)	0.000	0.000
Hexane Plus	(C6+)	0.000	
		100,000	0.488

BTU/CU.FT. - DRY 1011 1008 AT 14,650 DRY AT 14.650 WET 991 AT 14.73 DRY 1014 AT 14.79 WET 996

SPECIFIC GRAVITY -

CALCULATED MEASURED 0.578

MOLECULAR WT. 16.6856

#### BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

## Disposal of Produced Water From Federal Wells Conditions of Approval

Approval of the produced water disposal methodology is subject to the following conditions of approval:

- 1. This agency shall be notified of any change in your method or location of disposal.
- 2. Compliance with all provisions of Onshore Order No. 7.
- 3. This agency shall be notified of any spill or discharge as required by NTL-3A.
- 4. This agency reserves the right to modify or rescind approval whenever it determines continued use of the approved method may adversely affect the surface or subsurface environments.
- 5. All above ground structures on the lease shall be painted Shale Green (5Y 4/2), or as per approved APD stipulations. This is to be done within 90 days, if you have not already done so.
- 6. Any on-lease open top storage tanks shall be covered with a protective cover to prevent entry by birds and other wildlife.
- 7. This approval should not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.
- 8. If water is transported via a pipeline that extends beyond the lease boundary, then you need to submit within 30 days an application for right-of-way approval to the Realty Section in this office if you have not already done so.
- 9 Subject to like approval by NMOCD.

3/25/2010