

Laboratory Services, Inc.

2609 West Marland Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Lemmons Gas Measurement Inc.

Attention: R.W. Lemmons

P.O. Box 5798

Hobbs, New Mexico 88241

SAMPLE DATA: DATE SAMPLED:

9/20/04 9/22/04

ANALYSIS DATE: PRESSURE - PSIA

426.4 SAMPLE TEMP. °F 84.5

ATMOS. TEMP. °F

REMARKS:

H2S=0

SAMPLE:

Sta. #CES137

IDENTIFICATION: LA Federal #1A

COMPANY:

Cimarex

LEASE: PLANT:

GAS (XX)

LIQUID ()

SAMPLED BY:

Richard Lemmons

ANALYSIS BY:

Vickie Biggs

COMPONENT ANALYSIS

•		MOL	
COMPONENT		PERCENT	GPM
Hydrogen Sulfide	(H2S)	0.000	
Nitrogen	(N2)	1.358	
Carbon Dioxide	(CO2)	0.295	
Methane	(C1)	76.163	
Ethane	(C2)	12.494	3.33 3
Propane	(C3)	5.919	1.627
I-Butane	(IC4)	0.827	0.270
N-Butane	(NC4)	1.472	0.463
I-Pentane	(IC5)	0.390	0.142
N-Pentane	(NC5)	0.322	0.116
Hexane Plus	(C6+)	0.760	0.330
		100.000	6.281
BTU/CU.FT DRY	1279		MOLECULAR WT. 21.6468
AT 14.650 DRY			
AT 14.650 WET			
AT 14.73 DRY			
AT 14.73 WET			
SPECIFIC GRAVITY CALCULATED MEASURED	0.746		

HALLIBURTON

BOREHOLE COMPENSATED SONIC LOG

EXCELL!

RY)				COMPANY CIMAREX ENERGY COMPANY								
MPANY (RE-ENTRY)	Б	WELLLA FEDERAL No. 1 (RE-ENTRY)										
RCY COMPANY NO. 1 (RE-E		STAT	FIELD)	WILDCAT							
CIMAREX ENE LA FEDERAL I WILDCAT				COUN	NTY	EDDY	STATE NM					
CIMAR	LA FE	WILDCAT	EDDY	API No. 30-015-22654 Location 1980' FSL AND 660' FEL					Other Services EMI RECEIVED			
COMPANY CIMAREX ENERGY COMPANY	WELL	FIELD	COUNTY	Cont	SEP 2 9 2004							
- 0				Seci	11 Tw	rp 225	nge	22E	•	BH:MATESIA		
Permanent Datum GROUND LEVEL Elev 4183 Elev.: K.B. 4197									K.B. 4197'			
				K.B. , 14 ft. above perm. datum				D.F. 4196'				
Log measured from K.B. , 14 ft. above perm. datum D.F. 4196' Drilling measured from KELLY BUSHING G.L. 4183'												
Date				11-AUG-2004								
Run No.				ONE								
Depth - Driller			7487'									
Depth - Logger			7396'									
Bottom - Logged Interval			7359'									
	- Logge		/al	2050'								
Casir	ng – Dri	ller			@ 2050'	@			<u>@</u>	@		
	ng – Lo	gger		2050'								
Bit Si				7.875"								
Type Fluid in Hole			BRINE									
	Dens. Visc.		9.4 N/A					<u> </u>				
Ph Fluid Loss			N/A	N/A				<u> </u>	<u> </u>			
Source of Sample				MUD TANK								
Rm @ Meas. Temp.			0.055 @ 79 F		@			<u>@</u>	@			
Rmf @ Meas. Temp.			0.044 @ 79 F		@		<u>@</u>		@			
Rmc @ Meas. Temp.			0.069 @ 79 F		@		@		@			
Source Rmf Rmc		MEAS. MEAS.										
Rm @ BHT		0.034 @ 130 F		@		@		@				
Time Since Circ.		0730 8-11					·····					
Time on Bottom Max. Rec. Temp.		1530 8-1		@		 	<u></u>	<u> </u>				
		<u> </u>			I HOBBS	@		@		@		
Equip. Location Recorded By				KEWICZ	L		-	<u>1</u>				
Witnessed By				MR. REA								
vviiriessed by										1		

HALLIBURTON

GAMMA RAY / CCL CEMENT BOND / MSG LOG

COMPANY -ENTRY)	:	WN	Company Well Field									
GY (State	County	EDD	Υ			State	1	M		
CIMAREX ENERGY COMPANY LA FEDERAL #1 (RE-ENTRY)	ZAT		API No.: 30-0 Location: 19	15-22654 80' FSL 8	& 660'	Servi FEL	# : 3:	241167			Services	
Company	Field	County	Sec	Sec: 11 Twp:22S Rge: 22E						<u>a.</u>		
Permanent Datum GROUND LEVEL Elevation 4183'									ation			
Log Measure	d Fro	m	KB						K.B.	4197		İ
Log Measured From KB , 14 Ft. above perm. datum KB , 4197 D.F. 4196 G.L. 4183												
Date @ Time	Logg	ed		-AUGUST-2004 Type Fluid in Hole					KCL WATER			
Run No.				Density of Fluid				d	NA .			
Depth - Drille			7320		Fluid Level				FULL			
Depth - Logg		4	7316	Cement Top Est. Logged			st. Logged	1974' 10549600 / HOBBS,NM				
Bottom - Log		terva		Equipment / Location								
Top - Log Int			1850' NA	Recorded by Witnessed by				SHANE NORTON ROY SHIRLEY				
Max. Recorded Temp. CEMENTING DATA		Surface	Protection Production		Production	I KUT S	Liner					
CEMEIALIAG	CEMENTING DATA		String		String String					\dashv		
Date / Time C	emer	ited	Guilig		Junig			Cunig				
Primary / Squ												\dashv
Expected					l		***************************************					
Compressive		gth	psi@) hrs		psi@	hrs	psi@	hrs		psi@	hrs
Cement Volu												
Cement Type / Weight			/			Ī		1			1	
Formulation					<u> </u>							
Mud Type / Mud Wgt. /								<u> </u>	1			:
Borehole Record Run Number Bit From				To Size			Casing & Tu		ord			
run Numbe	er	BI	it From To		O	Size Weight 5.5" 17#		VVeight 17#			To 7320'	
<u> </u>					5.5		1/#	SURF	TOE	1320		
											 	
											 	