Form 3160-5 (August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIOR

# BUREAU OF LAND MANAGEMENT

5. Lease Serial No.
NMLC-060894

FORM APPROVED

OMB No. 1004-0137

Expires: July 31, 2010

		. <del> </del>	_	1111120 000071	•
Do not use this t	OTICES AND REPOR form proposals to a lse Form 3160-3 (AP	lrill or to re-e	nter an	6 If Indian, Allottee	or Tribe Name
	N TRIPLICATE - Other instruction	ons on page 2.		7 If Unit of CA/Agro	eement, Name and/or No.
1. Type of Well  Oil Well  Gas Wo	ell Other			8 Well Name and No Longhorns Feder	
2. Name of Operator  Mack Ener	rgy Corporation			9. API Well No 30-015-36259	
3a. Address		o. Phone No. (inclu	de area code)		Exploratory Area
P.O. Box 960 Artesia, NM 4. Location of Well (Footage, Sec., T.F.		(575) 748-128	8	Red Lake, San A	ndres
2410 FNL & 2310 FWL Sec. 6	• •			Eddy, NM	, state
	THE APPROPRIATE BOX	(ES) TO INDICAT	E NATURE OF		HER DATA
TYPE OF SUBMISSION			TYPE (	OF ACTION	
Notice of Intent	Acidize	Deepen		Production (Start/Resume)	Water Shut-Off
Troube of finance	Alter Casing	Fracture Tre		Reclamation	Well Integrity
Subsequent Report	Casing Repair	New Constr	<u> </u>	Recomplete	Other
Final Abandonment Notice	Change Plans .  Convert to Injection	Plug and Al	oandon L	Temporarily Abandon Water Disposal	
testing has been completed. Final Aldetermined that the site is ready for 11/17/2011 CIBP @ 2700' w/ 30sx 11/18/2011 Perf 2105.5-2362.5', 50 11/22/2011 Acidize w/ 13bbls 15% 12/7/2011 Frac 2105.5-2362.5' w/ 912/8/2011 RIH w/ 75 jts 2 7/8", J-5	bandonment Notices must be f final inspection.)  cement on top, tag @ 24  Oholes.  HCL.  94,000# 16/30 Brady sar  15, SN @ 2376', 2 1/2 x 2	iled only after all re 482'. nd, 21,160# Sup 2 x 20' pump.	equirements, in	cluding reclamation, have bee	RECEIVED  DEC 19 2011  NMOCD ARTESIA
14. I hereby certify that the foregoing is to	rue and correct. Name (Printed/) .		Dog to stice	al a de	
Jerry W. Sherrell		11110	Production	cierk	
Signature Jenny W.	Shendl	Date	12/16/2011		
	THIS SPACE I	OR FEDERAL	OR STAT	e office use	
Approved by					
Canditions of amount if any and the last	d Americal of this motion dans	of moreont or control	Title		Date
Conditions of approval, if any, are attached that the applicant holds legal or equitable to entitle the applicant to conduct operations	itle to those rights in the subject	lease which would	Office		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for my person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

PA Red Lake Glorieta - Yeso

#### UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO 1004-0137 Expires. July 31, 2010

#### WELL COMPLETION OR RECOMPLETION REPORT AND LOG

	W	ELL C	COMPL	ETIO	N OR R	ECOMPLE	ETIC	N REP	PORT	ND L	_OG				Lease MLC					
la Type of V	Vell	X C	l Well	G	as Well	☐ Dry ☐	Ö	ther			-							Tribe Na	me	
b. Type of C	Completion:	_	lew Well		ork Over	Dry Deepen	□ PI	ug Back	☐ Diff	Resvr	,							Name and		
2. Name of 0	Operator		ook Eng		Town over	an								8.	Lease	Name	e and We	ll No.		
3. Address					Corporati	ion		3a	. Phone N	o. (incl	lude ar	ea code	•)		ongn API V		Federa	11#1		
	P.O. Bo					ince with Feder	nal n		(575) 7					30	)-015	5-352	259	·losotos	~	
4. Location (	n wen (kej	ori ioc	ation ciea	riy ana	іп ассорас	ince with reaei	rui re	quiremen	is)				•	R	ed La	ake;	San Ar	idres	Ore	Mpm
At surface	•				2410' F1	NL & 2310'	FW	/L									R., M., S R27F	on Block		,
At top pro	d. interval r	eported	l below.		2303' Fi	NL & 2297'	FW	/L									Parish		State	
At total de	oth:				2295' FN	NL & 2302'	FW	/L						E	ddy			NN		
14 Date Spt 6/25/2008	udded		15 I	Date T. 17/20	D Reached	1		16. D	ate Comp		Dander	to Prod.		17	7. Elev 164' I	ations	(DF, RK	CB, RT, G	R)*	
18. Total I	Santhe MD	D 424	<del>'</del>	17720		ıg Back T.D.:	MD			<u> </u>			idge Plu		MI	)	<u> </u>			
21. Type Ele				Run (	Submit cop	y of each)	TVI	) 2402			22. W	as well	cored?	X	TVI No		es (Subm	nt analysis	)	
			_	-	-	ectral Gam	ma	Rav				Was DS	Γrun? nal Surve	$oldsymbol{\boxtimes}$	No		es (Subm	nt report)		
23 Casing a																י ואו	es (Suon	пт сору)		
Hole Size	Size/Gra		Wt. (#/ft.)	To	op (MD)	Bottom (MI	D)	Stage Ce Dep			of Sks of Ce		Slurr (E	y Vol BL)	_  '	Cemen	nt Top*	Ar	nount l	Pulled
12 1/4	8 5/8, J-			0		1179'				600sx					0			None		
7 7/8	5 1/2, J-	55  1	.7S	0		4219'				740sx	Χ				0	-		None		
	<u> </u>						[													
	ļ	-		-		1	$\dashv$								+					·
											_				1					
24. Tubing		2 . () (	N Doole	ar Dant	h (MD)	C		D 4.0	. (2.00)	Deal	Develo	(1.45)	-			Danile	Cat (MI	7/1 2		1.0.5
Size 2 7/8	2376'	Set (MD	) Fack	ci Dept	II (IVID)	Size	$\dashv$	.Depth Se	t (MD)	Packer	Lepin	(MD)		ze		Depin	Set (MI	7) Pa	cker De	epth (MD)
25 Producin			<del>-                                    </del>				2		foration I											
A) Red La	Formation		2 2	105.5	op	Bottom 2362.5		Pert 2105.5-2	forated In 2362.5			.41	Size	50	Hole	s		Perf S	tatus	
B)	ino, our	marc										<del>                                     </del>		1 -		$\dashv$				
C)																			,	
D)												<u> </u>						· / / :	-	
27 Acid, Fr	acture, Trea		Cement S	queeze,	etc.					mount	and Ty	me of N	faterial		j j	I		VE	_ال_	
2105.5-2	362.5'		S	ee 31	60-5 for	details						, p = = =				IJŁ	C 19	2011		
												•			NN	100	<u>CD A</u>	RTES	<u>IA</u>	
28 Product	ion Interva	l A												•						
Date First Produced	Test Date	_	Test Produ	ction	Oil BBL	Gas MCF	Wat BBI		Oil Grav Corr Al		Ga G	is ravity	Pro	duction	Meth	od				
12/15/2011	12/15/11	24hr	s -		17	12	390		37.400	)		600		1/2 x 2	2 x 2	0' pu	ımp			
Choke Size	Tbg Press. Flwg.	Csg. Press.	24 Hr. Rate		Oil BBL	Gas MCF	Wat BBI		Gas/Oil Ratio		W	ell Stati	18							
3126	SI	1033.	Kate			İ	İ						•							
28a Produc	tion -Interv	al B			17	12	390	<u> </u>	705		IP.	roduc	ıng							
Date First Produced		Hours Tested			Oil BBL	Gas MCF	Wat BBI		Oil Grav Con AF		Ga Gr	is avity	Pro	duction	Meth	od				
Choke	Tbg Press,	Csa	24 Hr		Otl	Gas	Wat	er	Gas/Oil		<u> </u>	ell Stati	IS							
Size	Flwg.	Press.	Rate		BBL	MCF	BBI		Ratio											
*(See insti	l ructions and	spaces	for additio	nal data	a on page 2	)			1											

28h Produ	iction - Inte	rval C								
Date First		Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced		Tested	Production	BBL	MCF	BBL	Corr API	Gravity		
Choke Size	Tbg Press Flwg. SI	Csg. Press.	24 Hr Rate	Oil BBL	Gas MCF	Wațer BBL	Gas/Oil Ratio	Well Status	, , ,	
28a Produ	iction - Inte	ral D		<u> </u>			<u> </u>			
	Test Date	Hours Tested	Test Production	Ori BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method	
Choke Size	Tbg Press Flwg SI	Csg Press.	24 Hr. Rate	Oil IIBL	Gas MCF	Water BBL	Gas/Oıl Ratio	Well Status		
29 Disposition	of Cas (Sold, use	d for fiel, verte	d, etc.)				<u> </u>		<del></del>	
Sold			Include Aqui					los a	on (Log) Markers	
Show	all importan	t zones of p	orosity and c	ontents th		ntervals and all	drill-stem tests, pressures and	J. T. O	on (aug) makeus	
For	nation	Тор	Bottom		Desc	criptions, Conte	ents, etc.		Name	Top Meas Depth
Red La San An	dres	2105.5	2362.5	ure):	*			Queen Graybur San And Glorietta Tubb	ires	596' 968' 1282' 2620' 4094'
Ele Su 34 I here	ndry Notice f	nanical Logs for plugging	s (1 full set rec	rification	formation is c	Geologic Repor	Other	vailable records	Directional Survey  (see attached instruction)*  Clerk	

(Continued on page 3)

DISTRICT I 1825 N. FRENCH DR., HOSBS, NM 88240

State of New Mexico Energy, Minerais and Natural Resources Department

DISTRICT II 1361 W. GRAND AVENUE, ARTESIA, NM 88210 OIL CONSERVATION DIVISION

Form C-102 Revised October 12, 2005 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

12541

DISTRICT III 1000 Rio Brazos Rd., Aztac, NM 87410

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT AMENDED REPORT 1220 S. ST. FRANCIS BR., SANTA FE, NW 57505 Red Lake; San Andres API Number Pool Cade -30-015-36259 97253 Property Code 37105 Property Name Weil Number LONGHORNS FEDERAL 1 OGRID No. Operator Name Elevetion MACK ENERGY CORPORATION 013837 3415

#### Surface Location

ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/EAST line	County
	F	6	18 <b>-</b> S	27-E		2410	NORTH	2310	WEST	EDDY

#### Bottom Hole Location If Different From Surface

ſ	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/EAST line	County
	- ਬ	6	185	278		2295	NORTH	222-		
			100	2/2			NORTH	2302-	WEST	EDUY
	Dedicated Acres	Joint o	r Infill C.	nsolidation (	Code Or	der No.				
	40									

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

				<del> </del>
	LOT 4	LOT 3	LOT 2 · LOT 1	OPERATOR CERTIFICATION
	LOT 5	2410, Z33951		I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unlessed 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 of such mineral or working interest, or to a woluntary pooling agreement or a compulsory pooling order heretofore entered by the division.
		Producing Area		Signature Date
		3395.1' 3426.5'	}	Jerry W. Sherrell Printed Name
	231			
		600, #		SURVEYOR CERTIFICATION
	LOT 6	3407.5′ 3407.9'	GEODETIC COORDINATES NAD 27 NME	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is
			Y=646550.1 N X=504574.9 E	true and correct to the best of my belief.
			LAT.=32.777457 N	JANUARRO 11E 2008
			LONG.=104.318448* W	Date Surveyed, ME Signature & Sear of Professional Surveyor
				Sonotal Course of 2/02
		,	COALINI	( 1.1.1864 ) The second of the
			SCANNED	Certificate No. GARY G. SEDSON 1284  RONALD J. BIDSON 3239
- 1				



### **MACK ENERGY**

Field: Red Lake

Site: Eddy County, NM Well: Longhorns Federal #1 Wellpath: DH - Job #32D0608477

Survey: 06/27/08-07/04/08

This survey is correct to the best of my knowledge and is supported by actual field data.

Company Representative

Notorized this date 4th of hund, 2008.

Notary Signature
County of Midland
State of Texas





# Sc. stific Drilling Internatio al **Survey Report**

Company: MACK ENERGY Field:

Red Lake

Site: Eddy County, NM Well: Longhorns Federal #1 Wellpath: VH - Job #32K0608488

Date: 07/31/2008

Time: 21:23:20 Co-ordinate(NE) Reference:

Site: Eddy County, NM, Grid North SITE 0.0

Vertical (TVD) Reference: Section (VS) Reference:

Well (0.00N,0.00E,354.55Azi)

Minimum Curvature Db: Sybase

Survey: 06/29/08

KSRG 0'-1000' Scientific Drilling Internatio

Start Date: Engineer:

Survey Calculation Method:

06/29/2008

Melendez w/P&M From Surface

Keeper;Keeper Gyro Tied-to:

Tool: Survey

Company:

MOD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.41	346.16	100.00	0.35	0.35	-0.09	0.41	0.36	346.16
200.00	0.68	340.39	199.99	1.28	1.25	-0.37	0.28	1.31	343.54
300.00	0.59	325.71	299.99	2.31	2.24	-0.86	0.19	2.40	338.99
400.00	0.54	344.57	399.98	3.22	3.12	-1.27	0.19	3.37	337.76
500.00	0.45	15.06	499.98	4.06	3.95	-1.30	0.27	4.16	341.81
600.00	0.31	97.32	599.98	4.36	4.30	-0.93	0.51	4.40	347.81
700.00	0.27	92.99	699.98	4.27	4.25	-0.42	0.05	4.27	354.30
800.00	0.98	209.22	799.97	3.53	3.49	-0.61	1.13	3.54	350.14
900.00	1.81	218.65	899.94	1.69	1.51	-2.01	0.86	2.51	306.92
1000.00	2.40	219.67	999.87	-0.92	-1.33	-4.33	0.59	4.53	252.89



# Sc. itific Drilling Internatio **Survey Report**

Company: MACK ENERGY Field: Red Lake Eddy County, NM Site:

Longhorns Federal #1 DH - Job #32D0608477 Well: Wellpath:

Date: 08/04/2008 Co-ordinate(NE) Reference: Vertical (TVD) Reference:

Survey Calculation Method:

Time: 15:34:34 Site: Eddy County, NM, Grid North SITE 0.0

Well (0.00N,0.00E,354.55Azi)

Db: Sybase Minimum Curvature

06/27/08-07/04/08 Survey:

MWD 1200'-4191' Scientific Drilling Internatio MWD;MWD

Section (VS) Reference:

06/27/2008

Engineer: Tied-to:

Calvert/Ramirez From: Definitive Path

Tool: Survey

Company:

MD ft	Tacl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	CIsD ft	ClsA deg
1000.00	2.40	219.67	999.87	-0.92	-1.33	-4.33	0.00	4.53	252.89
1200.00	2.31	224.16	1199.71	-6.48	-7.45	-9.81	0.10	12.32	232.80
1284.00	3.51	9.47	1283.66	-5.09	-6.13	-10.57	6.63	12.22	239.91
1377.00	9.25	20.63	1376.05	4.38	3.69	-7.47	6.29	8.33	296.27
1471.00	13.80	14.68	1468.13	21.70	21.61	-1.96	5.00	21.70	354.82
1564.00	15.18	3.10	1558.19	44.16	44.51	1.51	3.44	44.53	1,94
1627.00	14.81	355.57	1619.05	60.37	60.77	1.33	3.15	60.79	1.26
1720.00	10.04	344.28	1709.86	80.24	80.44	-1.78	5.73	80.46	358.73
1814.00	5.62	343.19	1802.96	92.83	92.74	-5.34	4.70	92.89	356.71
1906.00	5.58	345.43	1894.52	101.66	101.38	-7.76	0,24	101.68	355,62
2000.00	2.24	329.79	1988.29	107.84	107.39	-9.84	3.70	107.84	354.77
2094.00	0.65	227.10	2082.27	109.19	108.62	-11.15	2.62	109.19	354.14
2281.00	0.55	224.24	2269.26	107.96	107.25	-12.56	0.06	107.98	353.32
2468.00	0.43	191.03	2456.25	106.71	105.92	-13.32	0.16	106.75	352.83
2655.00	0.68	185.65	2643.24	104.94	104.13	-13.56	0.14	105.01	352.58
2811.00	0.72	195.60	2799.23	103.12	102.26	-13.92	80.0	103.20	352_25
2997.00	1.05	351.26	2985.22	103.73	102.82	-14.49	0.93	103.84	351.98
3121.00	0.99	337.00	3109.20	105.89	104.93	-15.08	0.21	106.01	351.82
3308.00	1.56	44.74	3296.16	109.06	108.23	-13.92	0.80	109.12	352.67
3495.00	1.08	52.10	3483.11	111.63	111.12	-10.74	0.27	111.63	354.48
3682.00	0.10	79.62	3670.10	112.59	112.23	-9.19	0.53	112.60	355.32
3818.00	0.24	351.47	3806.10	112,89	112.53	-9.11	0.19	112.90	355.37
3994.00	0.54	29.12	3982.10	113.94	113.62	-8.76	0.22	113.96	355.59
4191.00	0.56	20,44	4179.09	115.57	115.33	-7.97	0.04	115.61	356.04