Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 State of New Mexico Energy, Minerals and Natural Resources					Form C-105 Revised August 1, 2011												
1625 N. French Dr. District II			HOR	-LIIC	18y, 1	viiiiciais and				sources		1. WELL A	PIN	IO. 30)-025-4		
811 S. First St., Arte District III	-		1116 1	421	liO ⁵ //	Conservat	ion	Div	isio	n	-	2. Type of Le	ase	_			
District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV District IV				L	X STATE ☐ FEE ☐ FED/INDIAN												
1220 S. St. Francis			505	11	FD	Santa Fe, N	M	8750)5			3. State Oil &	Gas I	Lease No	D	934	
		LETIO	N OR	(ECC	MPL	ETION REI	POF	RT A	ND	LOG				44			
4. Reason for fili	ng:											5. Lease Name Encore I			ement Na	me	
	ON REP	PORT (Fil	l in boxes	#1 throu	gh #31 1	for State and Fee	wells	only))		ľ	6. Well Numb					
C-144 CLOS #33; attach this ar	nd the pla										or		•	800		, "	• •
	VELL [] WORK	OVER 🗌	DEEPE	NING	□PLUGBACk		DIFFE	EREN	IT RESERV	OIR						
8. Name of Opera Quantum 1	tor Resour	ces Ma	ınageme	ent, Ll	.C							9. OGRID	243	874			
10. Address of O			-									11. Pool name Drinkard/			^		
						TX 77010				F . C							
12.Location	Unit Ltr		ion	Towns		Range	Lot			Feet from the	ne	N/S Line		from the	+	Line	County
Surface:	J	19			2S	37E			_	2340	_	S		1650	East		Lea
вн:	J	19			2S	37E	<u> </u>			2340		S		1650	East	_	Lea
13. Date Spudded 06/07/13		ate T.D. F 06/19/1			06/	Released				07/30/	13	(Ready to Prod		R	T, GR, e	tc.)340	and RKB, 8'GR,3420'KI
18. Total Measure	•	of Well		19. F	lug Bac	k Measured Dep	oth		20.	Was Direct	ional	Survey Made?					her Logs Run _/CN/DSL/GF
22. Producing Int		of this cor	npletion - T	op, Bot	tom, Na	6923' ime						T			GR,DI	الكبكال	7CIA/DOF/GL
Drinkard (6	462'-6	684'). <i>A</i>	bo (674	6'-683	32')												
23.						ING REC	ORI	D (R			ing						
CASING SIZ	ING SIZE WEIGHT LB./FT. DEPTH SET HOLE SIZE CEMENTING RECORD AMOUNT PULLE					PULLED											
16" 13-3/8"			EAE			40'			17	'-1/2"							
8-5/8"			54.5 32			1200' 4017'	-			- 1/2 1"		910sx CI				0	
5-1/2"			20			6936'				' 7/8"		770sx Cl "C" 0 725sx 50/50 Poz "H" 0					
0 1/2									•			12358 30/3	UFC	/2 			
24.					LINI	ER RECORD					25.	T	UBIN	IG REC	ORD		
SIZE	TOP		BOT	TOM		SACKS CEM	ENT	SCF	REEN		SIZ		DE	PTH SE	T	PACK	ER SET
	-		_					 				2-7/8"	-	6164'			
26. Perforation	record (i	nterval si	ze and nun	nher)		!		27	ACI	TOH2 O	FR 4	ACTURE, CE	<u> </u> MEN	T SOL	FF7F	<u> </u> FTC	
6462'-6684', 1s	,		se, una nan	1001)						NTERVAL	1 107	AMOUNT A					
0.02 000 1, 10,	o., _ ,	00 110100						646	62'-6	6684'						7,100#	100 mesh,20/40
6746'-6832', 1s _i	of, .42", 4	41 holes										sand, 5956 E	Bbls T	otal Flu	id		
!										S832'		Acid w/200 Acid frac w/1)G+2	700G	15% F	HCI NE	FE al Fluid
28. Date First Produc			D-, J., d	14-4	1 /51	owing, gas lift, p				rion		Well Status					
08/06/13	tion					ni'ing. <i>gas iiji, pi</i> I.5"X26'SMPR,		_				Prod	(Proa	. or snu	- <i>in)</i>		
	110,,,,,,	Tagtad	<u> </u>		, 2.5/		0407			umping or		- MCF	Wa	tos Dhi		l C	Dil Davia
Date of Test 08/12/13	Hours	Tested 24	Cno	ke Size 0		Prod'n For Test Period		1	- Bbl 35	- 1	Gas	- MCF 16	wa	ter - Bb 127		1	Oil Ratio 57
Flow Tubing	Cacin	g Pressure	Cal	culated 2	24	Oil - Bbl.		<u> </u>	Cas	MCF		Water - Bbl.	Ш	Oil Gr	avity - A	Dl (Cor	
Press. 500	Casiii	60		r Rate		35		1	Gas -	16	Ι,	127		Oirdi	39.8		/.)
29. Disposition of Gas (Sold, used for fuel, vented, etc.) 30. Test Witnessed By																	
Sold															N	cCL0	SURE
31. List Attachme		04 We	ll Logs	Inclin	ation I	Report, Cem	ent	Ren	orts.			NOTE	ILE) A FF	AC DI	1.2/	13
									,	DERAT(OR	HAS NO!	VA	s DU	E 9	1171	-
Sold 31. List Attachments Forms C-102, C-104, Well Logs, Inclination Report, Cement Reports 32. If a temporary pit was used at the well, attach a plat with the location of the temporary operation of the temporary operation of the temporary operation. 33. If an on-site burial was used at the well, report the exact location of the on-site burial.																	
			,P			Latitude			1	-		Longitude				NΔ	.D 1927 1983
I hereby certif	sy that t	he infor	mation si	nown c			form	ı is tı	ue a	ind compl	ete		f my i	knowle	dge and		
Signature (ules	hM.	Nat			Name	_			Titl						Date	
E-mail Addre	ss cd	lale@q	acq.con	n		Celeste G.	Dale					Sr. Regulat	ory A	\nalys	t	08/1	3/13

DHC-HOB-5P

OCT 2 2 2013

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

		tern New Mexico	Northwestern New Mexico					
T. Anhy 116	3 3420	T. Canyon	T. Ojo Alamo_	T. Penn A"				
T. Salt	7	T. Strawn	T. Kirtland	T. Penn. "B"				
B. Salt		T. Atoka	T. Fruitland	T. Penn. "C"				
T. Yates	2746'	T. Miss	T. Pictured Cliffs	T. Penn. "D"				
T. 7 Rivers	2934'	T. Devonian	T. Cliff House	T. Leadville				
T. Queen	3424'	T. Silurian	T. Menefee	T. Madison				
T. Grayburg	3640'	T. Montoya	T. Point Lookout	T. Elbert				
T. San Andres	3876'	T. Simpson	T. Mancos_	T. McCracken				
T. Glorieta	5270'	T. McKee	T. Gallup	T. Ignacio Otzte				
T. Paddock		T. Ellenburger	Base Greenhorn	T.Granite				
T. Blinebry_	5630'	T. Gr. Wash	T. Dakota					
T.Tubb	6248'	T. Delaware Sand	T. Morrison					
T. Drinkard	6346'	T. Bone Springs	T.Todilto					
T. Abo	6744'	Т.	T. Entrada					
T. Wolfcamp		Т.	T. Wingate					
T. Penn		Т	T. Chinle					
T. Cisco (Bough	1 C)	T.	T. Permian					

				OR GAS OR ZONES
No. 1, from	to	No. 3, from	to	
No. 2, from	to	No. 4, from	to	
	IMPORTANT	WATER SANDS		
Include data on rate of	water inflow and elevation to which water	er rose in hole.	•	
No. 1, from	to	feet		• • • • • • • •
No. 2, from	to	feet		• • • • • • •
	to			
	LITHOLOGY RECORD	(Attach additional sheet if a	necessary)	

From	То	Thickness In Feet	Lithology	From	То	Thickness In Feet	Lithology
	i						
	:						
	:						,, ,

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

HOB3S OCD

Form W-12 (1-1-71)

		31271115 3710 5		AUG 1 4 2013	6. RRC District			
		NATION RI st Be Filed With Each Con	EPORT	RECEIVED	7. RRC Lease Number. (Oil completions only)			
1. FIELD NAME (as per Drinkard		2. LEASE			8. Well Number			
3. OPERATOR / Quantum Resources 4. ADDRESS	Management	LLC			9. RRC Identification Number (Gas completions only)			
1401 Mc Kinn 5. LOCATION (Section,	10. County							
Sec. 19 T-:	<u> 22-5, R- 37-</u>	<u>E</u>			Lea Co. NM			
	R	ECORD OF	INCLINATI	ON				
*11. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)			
235		1						
720	to the transport	.75						
1210		.5	<u></u>					
1617		.25						
2120		11						
2630		2						
2720		2.25						
2800		2.25						
2970		2						
3127		1.25						
3470		1						
4128		1.25						
4314		1						
4898		11						
5316		1			· _			
17. Is any information s	s needed, use the reverse side hown on the reverse side of t	his form? yes	□ no feet =		Cont			
	displacement of well bore at	_	7/40	Drill Pipe	feet.			
*19. Inclination measure		Tubing	☐ Open hole	•				
	ce location of well to the <u>near</u>			_	feet.			
	o lease line as prescribed by			, -	feet.			
•	l at any time intentionally de		· ·	<i>No</i>				
(If the answer to the	above question is "yes," atta	ch written explanation of the	he circumstances.)					
INCLINATION DATA C	ERTIFICATION		OPERATOR CERTIFIC	CATION				
am authorized to make this cer and facts placed on both sides	of this form and that such data knowledge. This certification	nowledge of the inclination da and facts are true, correct, as	ata authorized to make this certiful in this report, and that all data to the best of my knowledge.	ication, that I have personal la presented on both sides of the	exas Natural Resources Code, that I am knowledge of all information presented his form are true, correct, and complete data and information presented herein tem numbers on this form.			
Signature of Authorized Representative Signature of Authorized Representative On any Crown V. D. of Operations On any Crown V. D. of Operations On any Crown V. D. of Operations								
Danny Crow v. P. of Operations Name of Person and Title (type or print) Felder hoff Drilling Quantum Resources Management LLC								
	Name of Company Operator							
Railroad Commission Use	ion of	<u> </u>	Det mas		CT 2 2 2013			

* Designates items certified by company that conducted the inclination surveys.

OCT 2 2 2013

RECORD OF INCLINATION (Continued from reverse side)

I. Measured Depth (feet)	12. Course Length (Hundreds of feet)	*13. Angle of Inclination (Degrees)	14. Displacement per Hundred Feet (Sine of Angle x100)	15. Course Displacement (feet)	16. Accumulative Displacement (feet)
5789		.75			
6343		.75			
6632		1.75			
6940		.75			
	- "			,	
					-
···					
		-			
	- 				-
	-	·		·	
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			-		
If additional space	is needed, attach separate sh	neet and check here.	I	1	
	· · · · · · · · · · · · · · · · · · ·				

- INSTRUCTIONS -

An inclination survey made by persons or concerns approved by the Commission shall be filed on a form prescribed by the Commission for each well drilled or deepened with rotary tools or when, as a result of any operation, the course of the well is changed. No inclination survey is required on wells that are drilled and completed as dry holes that are plugged and abandoned. (Inclination surveys are required on re-entry of abandoned wells.) Inclination surveys must be made in accordance with the provisions of Statewide Rule 11.

This report shall be filed in the District Office of the Commission for the district in which the well is drilled, by attaching one copy to each appropriate completion for the well. (except Plugging Report)

The Commission may require the submittal of the original charts, graphs, or discs, resulting from the surveys.

Cementer:	Fill in sh	aded areas	,	
Operator: F	ill in othe	er items		

Form W-15 Cementing Report Rev. 4/1/83 HLBRTN1096

RAILROAD COMMISSION OF TEXAS

	Oil ar	d Gas Division		A 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
1	1. Operator's Name (As Shown on Form P-5, Organization Report)	2 RRC Operator No	3 RRC District No.	4 County of Well Site
	QUANTUM RESOURCES Management, LL			LEA
	5, Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API N	No,	7. Drilling Permit No
٠	Drinkard/Wantz, Abo	42-	025-40721	
1	8. Lease Name	9. Rule 37 Case No.	10, Oil Lease/Gas ID No	11. Well Number
1	ENCORE M STATE			#8

CA!	SING CEMENTING DATA:	SURFACE CASING	' INTERMEDIATE CASING	PRODUC	TION CASING	MULTI-STAGE C	MENTING PROCESS
	· · · · · · · · · · · · · · · · · · ·			SINGLE STRING	MULTIPLE PARALLEL : STRINGS	TOOL	SHOE
12	Cementing Date	6/9/2013					
13.	*Drilled Hole Size	17 1/2					
	*Ext. % Wash or Hole Enlargement					,	
4.	Size of Casing (in. O.D.)	13 3/8					
5.	Top of Liner (ft)	1		,			
16.	Setting Depth (fl)	1200					
7.	Number of Centralizers Used	//					
8.	Hrs. Waiting on Cement Before Drill-Out	28					
<u>-</u>	19. API Cement Used: No. of Sacks >	660SKS				4	ŹŹ.
st Slurry	Class >	CLASS C					
<u>.</u>	Additives >	SEE RMKS	-	: 1			
Slurry	No. of Sacks >	250SKS	4				
S S S	Class >	CLASS C		,			
2 n	Additives >	SEE RMKS					
Slury	No. of Sacks >						
3.0	Class >		•		*		
'n	Additives >					· ' ·	
	20. Slurry Pumped: Volume (cu.ft.) >	1254		<u> </u>			1.0
st .	Height (ft) >	1802					
nd	Volume (cu.ft.) >	412					· · · · · · · · · · · · · · · · · · ·
iu	Height (ft) >	525				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· ·
d	Volume (cu.ft.) >					e pe	
_	Height (ft) >				· · · · · · · · · · · · · · · · · · ·	- ,	
٠	Volume (cu.ft.) >	1666	ur				
i. V	Height (ft) > Vas Cement Circulated to Ground Surface	2327 YES					
.(or Bottom of Cellar) Outside Casing?					<u></u>	
P	emarks CIRCULATED 70BBLS	207SKS BAC	K TO SURFA	CE			
E	AD CMT. 660SKS OF TRANS TEX L	TE"C" WITH	2%CACL,3#0	SILSONITE, AN	D 1/4#CELLOFLA	KE AT 13PPG	
Αl	L CMT. 250SKS OF TRANS TEX LIT	E"C" WITH 2	%CACL 3#GI	I SONITE AND	1/4#CELLOFLAK	E AT 13.8PPG	\

CEMENTING TO PLUG AND ABANDON	PLUG#1	PLUG#2	PLUG#3	PLUG #4	PLUG#5	PLUG #6	PLUG #7	PLUG #8
23 Cementing Date	Emander of	E.	an tolking so		STATE OF THE STATE	Francisco Francis		
24, Size of Hole or Pipe Plugged (in)) 4				enger in de ger	
25. Depth to Bottom of Tubing or Drill Pipe (ft)	A Committee of the Comm		and the second s		141 April 1	ا من الاستان المامية ا		(*) 15 (*)
26 Sacks of Cement Used (each plug)								to the state of the state of
27, Slurry Volume Pumped (cu ft.)								Pari, W
28 Calculated Top of Plug (ft)				THE PROPERTY OF THE PARTY OF TH		被 赞		學學
29. Measured Top of Plug, If Tagged (ft)			4					
30 Slurry Wit (lbs/gal)								Average to the second
31 Type Cement								1

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete to the best of my knowledge. This certification covers cementing data only.

OMAR A RAMOS TRANS TEX CEMENTING SERVICES, LLC	
Name and Title of Cementer's Representative Cementing Company Signature	
5019 BASIN ST Midland , Texas 79703 432-694-4900	6/9/2013
Address City State Zip Code Tel: Area Code Number	Date: Mo. Day Yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

•	•	
Celeste G. Dale	Sr. Regulatory Analyst	White A wal
Typed or Printed Name of Operators Representative	Titlė	Signature

4000 N. Big Spring St., Suite 305 Midland, TX 79705
Address City State Zip Code

432-683-1500 Tel: Area Code Nu

07/18/13

Date: Mo, Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the compledted Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules:
- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
- D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rull 12 (b) (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Cementer: Fill in shaded areas Operator: Fill in other items

RAILROAD COMMISSION OF TEXAS

Form W-15 Cementing Report Rev. 4/1/83 HLBRTN1096

<u></u>	ING CAS DIVISION .		
Operator's Name (As Shown on Form P-5, Organization Report)	2. RRC Operator No. 3.	RRC District No.	4. County of Well Site
0 1 D Mariana 110	7	<i>r</i>	1 A1A4
Quantum Resources Management, LLC			Lea, NM
5. Field Name (Wildcat or Exactly as Shown on RRC Records)	6. API No.		7. Drilling Permit No.
Drinkard/Wantz, Abo	42- 3	0-025-40721	
8. Lease Name	9. Rule 37 Case No. 10	. Oil Lease/Gas ID No.	11. Well Number
Encore "M" State			008

	NG CEMENTING DATA:	SURFACE CASING	INTERMEDIATE CASING	PRODUCTION CASING		MULTI-STAGE CEMENTING PROCESS		
		CASING	CASING	SINGLE STRING	MULTIPLE PARALLEL STRINGS	TOOL	SHOE	
2.	Cementing Date		6/13/2013					
3.	*Drilled Hole Size		11					
	*Ext. % Wash or Hole Enlargement							
14.	Size of Casing (in. O.D.)		8 5/8		·			
5.	Top of Liner (ft)	:						
16.	Setting Depth (ft)		4017					
7.	Number of Centralizers Used		12					
8.	Hrs. Waiting on Cement Before Drill-Out		24					
<u>-</u>	19. API Cement Used: No. of Sacks >		575					
st Slurry	Class >		" C			,		
€.	Additives >		see remarks					
Ę	No. of Sacks >	,	200			·		
2 nd Slurry	Class >		С					
2	Additives >		1/4 # celloflake				,	
īŢ	No. of Sacks >			•				
3 rd Slurry	Class >		- A		A. S			
ຕັ	Additives >							
	20. Slurry Pumped: Volume (cu.ft.) >		1420		4			
st	Height (ft) >		5586					
	Volume (cu.ft.) >		264					
nd	Height (ft) >		1038					
ird :	Volume (cu.ft.) >		<u> </u>					
***	Height (ft) >		1	. 4				
	Volume (cu.ft.) >		1684					
	Height (ft) >		6624	V .	<u> </u>	* .		
	Vas Cement Circulated to Ground Surface or Bottom of Cellar) Outside Casing?		no.					
	emarks							

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	PLUG #8
23, Cementing Date		i wa sani	5 46 c			CONSTANTA	and the second	
24. Size of Hole or Pipe Plugged (in)	ar e					"		
25. Depth to Bottom of Tubing or Drill Pipe (ft)		9	,					
26. Sacks of Cement Used (each plug)	J No.		7	76 de - 2				3 7
27. Slumy Volume Pumped (cu.ft.)			, (1)	i dir.		*	1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	* :
28. Calculated Top of Plug (ft)								
29. Measured Top of Plug, If Tagged (ft)								
30. Slurry Wt. (lbs/gal)	e Company	A STATE OF THE STA	All Control	305	The state of the s			
31. Type Cement	t. William Santa	TANGLA ST	11 34 4	74. T.T.		. 1 .6		

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

TRANS-TEX CEMENTING SERVICES LLC

Name and Title of Cementer's Representative		Cementing Company			Sighature					
5019 BASIN ST		Midland	d , Texas	79703	432-694-4900		- 77	06/13/13		
Address		City	State	Zip Code	Tel: Area Code	e Number		Date: Mo.	Day Yr.	
certification, that	I have knowledg	e of the w	ell data a	Ities prescribed in Sec nd information present dge. This certification	ted in this report, and t					ΓĘ
Celeste G. Dale Typed or Printed Name or	f Operators Repres	sentativé		Sr. F	Regulatory Analys	<u>ş</u> t	Signature	tad.	Dal	

4001 N. Big Spring St., Suite #305 Midland, TX 79705
Address City State Zip Code

Michael Mayfield

432-683-1500

07/18/13 Date: Mo. Day Yr.

Instruction to Form W-15, Cementing Report

IMPORTANT: Operators and cementing companies must comply with the requirements of the Commission's Statewide rules 8 (Water Protection), 13 (Casing, Cementing, Drilling, and Completion, and 14 (Well Plugging). For offshore operations, see the requirements of Rule 13 (c).

A. What to file. An operator should file an original and one copy of the completted Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form. Form W-15 should be filed with the following:

- * An initial oil or gas completion report, Form W-2 or G-1, as required by Statewide or special field rules:
- * Form W-4, Application for Multiple Completion, if the well is a multiple parallel casing completion; and
- * Form W-3, Plugging Record, unless the W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete W-15, in addition to Form W-3, to show any casing cemented in the hole.
- B. Where to file. The appropriate Commission District Office for the county in which the well is located.
- C. Surface casing. An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Texas Department of Water Resources, Austin. Before drilling a well in any field or area in which no field rules are in effect or in which surface casing requirements are not specified in the applicable rules, an operator must obtain a letter from the Department of Water Resources stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
- D. Centralizers. Surface casing must be centralized at the shoe, above and below a stage collar or diverting tool, if run, and through usable-quality water zones. In nondeviated holes, a centralizer must be placed every fourth joint from the cement shoe to the ground surface or to the bottom of the cellar. All centralizers must meet API specifications.
- E. Exceptions and alternative casing programs. The District Director may grant an exception to the requirements of Statewide Rule 13. In a written applications, an operator must state the reason for the requested exception and outline an alternate program for casing and cementing through the protection depth for strata containing usable-quality water. The District Director may approve, modify, or reject a proposed program. An operator must obtain approval of any exception before beginning casing and cementing operations.
- F. Intermediate and production casing. For specific technical requirements, operators should consult Statewide Rull 12 (b) (3) and (4).
- G. Plugging and abandoning. Cement plugs must be placed in the wellbore as required by Statewide Rule 14. The District Director may require additional cement plugs. For onshore or inland wells, a 10-foot cement plug must be placed in the top of the well, and the casing must be cut off three feet below the ground surface. All cement plugs, except the top plug, must have sufficient slurry volume to fill 100 feet of hole, plus ten percent for each 1000 feet of depth from the ground surface to the bottom of the plug.

To plug and abandon a well, operators must use only cementers approved by the Director of Field Operations. Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.

Form W-15 Cementing Report Rev. 4/1/83 HLBRTN1096

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division 4. County of Well Site 3. RRC District No. 1. Operator's Name (As Shown on Form P-5, Organization Report) Quantum ResourcesManagement, LLC Lea **NA**7. Drilling Permit No. 5. Field Name (Wildcat or Exactly as Shown on RRC Recoids) 42-025-40721 Drinkard/Wantz; Abo 9, Rule 37 Casè No. 10. Oil Lease/Gas tD No. 11, Well Number 8. Lease Name #8 Encore M State CASING CEMENTING DATA: SURFACE INTERMEDIATE PRODUCTION CASING MULTI-STAGE CEMENTING PROCESS CASING CASING MULTIPLE PARALLEL SINGLE STRING TOOL SHOE 12. Cementing Date 1 74. 6/20/2013 13. *Drilled Hole Size 7 7/8 *Ext. % Wash or Hole Enlargement 14. Size of Casing (in, O.D.) 5 1/2 15. Top of Liner (ft) 6936 6939 16. Setting Depth (ft) 17. Number of Centralizers Used 22 18. Hrs. Waiting on Cement Before Drill-Out 19. API Cement Used: No. of Sacks > Slurry 100 Class > "H" 50/50 Poz ᅜ Additives > see remarks No. of Sacks > Slumy 625 Class > "H" 50/50 Poz 2 Additives > see remarks No. of Sacks > Slurry Class > 3 7 Additives > 20. Slurry Pumped: Volume (cu.ft.) > 242 1st Height (ft) > 1397 Volume (cu:ft.) > 825 Height (ft) > 4761 Volume (cu.ft.) > Height (ft) > Volume (cu.ft.) > 1067 Height (ft) > 6158 NO 21 Was Cement Circulated to Ground Surface (or Bottom of Cellar) Outside Casing? Lead Cement additives: 10%gel,5%salt,3#gilsonite,3#phenoseal,1/4#celloflake,3/10%cfl-1 Tail Cement additives: 2%gel,5%salt,3#gilsonite,3#phenoseal,1/4#celloflake,3/10%cfl-1

CEMENTING TO PLUG AND ABANDON	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	, PLUG #7	PLUG #8
23. Cementing Date	, ·		1				Mary and a second	,
24. Size of Hole or Pipe Plugged (in)			······································			.,		
25. Depth to Bottom of Tubing or Drill Pipe (ft)								
26. Sacks of Cement Used (each plug)		, yes			. :			
27. Slurry Volume Pumped (cu.ft.)							· · · ·	
28. Calculated Top of Plug (ft)			2					
29, Measured Top of Plug, If Tagged (ft)								
30, Slurry Wt, (lbs/gal)								
31. Type Cement	,		-			,		

CEMENTERS CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

TRANS-TEX CEMENTING SERVICES, LLG

Name and Title of Cementer's Representative	Cementing Company	Signature	
5019 BASIN ST	Midland , Texas 79703	432-694-4900	6/20/2013
Address	City State 7 ip Code	Tel: Area Code Number	Date: Mo Day Yr

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

Celeste G. Dale Typed or Printed Name of Operators Representative	<u>Sr.</u> Title	Regulatory Analyst	Lulistad Dal		
4000 N. Big Spring St., Suite #305	Midland, TX 79705	432-683-1500	07/18/13		
Address City	State Zip Code	Tel: Area Code Number	Date: Mo. Day Yr.		

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Will Bautista / Field Supervisor

Tel: Area Code Number

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