Form 3160-4 (August 2007)

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

OIL CONS. DIV DIST. 3 FORM APPROVED

OMB No. 1004-0137 Expires: July 31, 2010

(August 2007)	)		DEPAR								DI	T	20	0.00			004-0137	
4			BUREA									01	204	017			y 31, 2010	
	WELL (	COMPL	ETION C	R RI	ECO	MPLI	ETIO	N REI	PORT	AND L	_OG				ease Serial			
1a. Type o	of Well	Oil Well	<b>⊠</b> Gas	Well		Dry		ther						6. If	Indian, All	ottee o	r Tribe Name	
b. Type o	of Completion	Othe	lew Well	O W	ork Ov	er	☐ De	epen	Plug	g Back	☐ Diff	f. Res	SVr.	7. U	nit or CA A	greem	ent Name and	No.
2. Name o	f Operator					Conta	ct: RC	DBBIE A	GRIG	3				8. L	ease Name	and We	ell No.	
SOUT	HLÂND ROY			ĿØail:	rgrigg	@msp	artne		Il and N	o. (includ		dal			PI Well No	_	5 24-1	
3. Address	FORT WO	ORTH, T	X 76102					Ph:	817-33	4-7842	e area co	de)		9. A	PI Well No		39-31362-00	·X1
4. Location		1 T32N R	5W Mer NN	1P						)*				В	BASIN DA	KOTA	Exploratory	
At surface NWSW 2610FSL 897FWL 36.965641 N Lat, 107.319504 W Lon  At top prod interval reported below												0	r Area Se	M., or c 24 T	Block and Su 32N R5W Me	er NMP		
At top from interval reported below Sec 24 T32N R5W Mer NMP At total depth NWSW 2610FSL 897FWL 36.965641 N Lat, 107.319504 W Lon											12. (	County or F	Parish BA	13. State NM				
14. Date S 08/31/2	pudded 2017		15. D. 09	ate T.D /21/20		ched			□ D&	Complet A 🔀 7/2017	ed Ready to	o Pro	d.	17. 1	Elevations (	DF, KI 40 GL	B, RT, GL)*	
18. Total I	Depth:	8953 8953					D.:				20. Dep	Depth Bridge Plug Set: MD TVD						
21. Type I 7340 C	Electric & Oth SL	er Mecha	nical Logs R	un (Su	bmit c	opy of	each)				Wa	as DS	ell cored ST run? onal Sur		No     No     No     No     No	☐ Yes	s (Submit anal s (Submit anal s (Submit anal	ysis)
23. Casing a	nd Liner Rec	ord (Repo	ort all strings	set in	well)							_						
Hole Size	Size/G	rade	Wt. (#/ft.)		op ID)	Bott (M		Stage C De			of Sks. & of Cemen	- 1	Slurry (BB)		Cement	Top*	Amount P	ulled
17.500		375 J-55	54.5		0	_	618					75				0		85
12.250	1	25 N-80	32.0	-	0		4533					60				0		70
7.87		00 P-110 00 P-110	17.0 17.0	_	4700 4700		8953 8953					'15 '15			-	4700 4700		0
1.013	3.50	10 F-110	17.0		4700		0933					13	-			4700		
24. Tubing		(D)   D		(1.47)	T a:		D 1	0 . 0 .			1.0.00		0:		10.01	- T	n I n I	(1.47)
Size	Depth Set (N	(ID) P	acker Depth	(MD)	Sı	ze	Depth	n Set (M)	D) P	acker De	pth (MD)		Size	De	epth Set (M	D)	Packer Depth	(MD)
25. Produc	ing Intervals		-				26.	Perforati	ion Reco	ord					10			
	ormation		Тор		Во	ottom	_	Per	rforated	Interval		_	Size	1	No. Holes		Perf. Status	
	RUITLAND (		2	3842			+				O 8789	_	0.42		14	_		
	CTURED CL			4056 7140			+				0 8789	_	0.42		14 14	_		-
C) D)		COS		8775	-	8870					O 8840		0.42	_	14	_		
	racture, Treat		ment Squeeze				-1			0020	0 00 10		0.11					
	Depth Interva									mount and	-	_						
			873 2500 G															
	87	75 TO 8	873 2500 G	AL 15%	6 HCI,	4916 B	W, 389	900# 100	MESH	73,125# 4	0/80 HYD	ROP	RO LW	C, 27,	180# 30/50	CRC		
			_															
28. Produc	tion - Interval	A																
Date First	Test	Hours	Test	Oil		Gas		Vater	Oil G		Gas			Product	ion Method			
Produced	Date	Tested	Production	BBL		MCF	В	BL	Corr.	API	Gra	ivity						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF		Vater BL	Gas:O Ratio	il	We	ll Stati	15					
28a. Produ	ction - Interva	ıl B																
Date First	Test	Hours	Test Production	Oil BBL		Gas MCF		Vater BL	Oil Gr Corr.		Gas			Product	ion Method			
Produced	Date	Tested		DOL		WICF					Gra	vity						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF		Vater BL	Gas:O Ratio	il	We	ll Stati	15					
	-								_		_							

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #392083 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

NMOCDA formation TOPS listed on back pase Box 30. 5

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	uction - Interv	_							<u> </u>		
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gra	s avity	Production Method	
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	We	Il Status		
20a Dand	uction - Interv	"I D		<u> </u>	<u> </u>			ļ			
			- T= · - · · ·	Lou	la	Tour .	long :	lo.		In	
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gre	s ivity	Production Method	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	We	II Status		
29. Dispo UNK	sition of Gas( NOWN	Sold, used	for fuel, vent	ted, etc.)							
30. Summ	nary of Porous	Zones (Ir	iclude Aquife	ers):					31. For	mation (Log) Marl	cers
tests, i							d all drill-stem id shut-in pressu	res			
				I .					ĺ		Тор
	Formation		Тор	Bottom	ı	Descript	ions, Contents, e	etc.		Name	Meas. Der
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32. Additi	ional remarks NDED REPC	include p RT INCL	lugging proc	edure): FORMAT	ON TOP	s	•				
,	1020 1121					<b>.</b>					
					-						
33. Circle	enclosed atta	chments:									
1 Ele	ectrical/Mecha	anical Log	s (1 full set re	q'd.)		2. Geologi	ic Report	• :	3. DST Rep	oort	4. Directional Survey
5. Sui	ndry Notice fo	or plugging	g and cement	verification		6. Core Ar	nalysis	•	7 Other:	•	
34. I herel	by certify that	the forego	oing and attac	hed informa	tion is cor	nplete and co	orrect as determi	ined from a	ıll available	records (see attacl	ned instructions):
							ed by the BLM				
							MPANY LLC, ACK SAVAGE				
Name	(please print)	ROBBIE			p. 30				•	ORY REPORTIN	G.
ranic	preuse print)		511150	<del></del>				<u> </u>			<u>-</u>
Signat	ture	(Electror	nic Submissi	ion)			Date	10/16/201	17		
						•					•
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of the Uni	J.S.C. Section ited States any	1001 and false, fict	Title 43 U.S. titious or frad	C. Section 1 ulent statem	212, make ents or rep	t a crime for resentations	or any person kn as to any matter	owingly an	id willfully jurisdiction	to make to any dep	partment or agency

Additional data for transaction #392083 that would not fit on the form

## 26. Perforation Record, continued

 Perf Interval
 Size
 No. Holes
 Perf Status

 8858 TO 8870
 0.420
 12

 8858 TO 8870
 0.420
 12

Form 3160-4 (August 2007)

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

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

	WELL	COMPL	ETION (	OR RE	COI	MPL	ETION	REPO	DRT	AND L	.OG			ease Serial 1 NMNM3058		
1a. Type	of Well	Oil Well	<b>⊠</b> Gas	Well		ry	Oth	er					6. If	Indian, All	ottee o	r Tribe Name
b. Type	of Completion	Othe	New Well er	□ Wo	ork Ov	er	☐ Deep	pen	) Plug	g Back	☐ Diff.	Resvr.	7. U	nit or CA A	greem	ent Name and No.
2. Name o	of Operator THLAND RO	YALTY C	OMPANY E	≟lØail: ı	rgrigg	Conta @msp	ct: ROE	BBIE A G	RIG	3				ease Name a		
3. Addres	ss 400 W 77 FORT W						J	3a. Pho Ph: 81		o. (include 1.7842	area cod	le)	9. A	PI Well No.		39-31362-00-X1
4. Location	on of Well (Re	A TOOM D	EIN/ MAON NIN	AD				*					- E	Field and Po		Exploratory
At sur	face NWS	W 2610FS	SL 897FWL	36.965	641 N	N Lat,	107.31	9504 W L	_00	LCON	S. DIV	DIST	11.	Sec., T., R.,	M., or	Block and Survey 32N R5W Mer NMI
		c 24 T321	elow N R5W Mer OFSL 897F\		06564	1 N I	at 107	3105041	N/ L o	00	T 16	2017	12.	County or Pa	arish	13. State
14. Date 3	Spudded	V3VV 2010	15. D	ate T.D.	. Reac		at, 107.	16.		Complete	ed Ready to	Prod		Elevations (		B, RT, GL)*
		140		700720		D	1.55		10/0	7/2017						
18. Total		MD TVD	8953 8953				Back T.D		ID VD	88	91			dge Plug Se		MD TVD
21. Type 7340	Electric & Otl GL	her Mecha	nical Logs R	un (Sub	mit co	ppy of	each)				Wa	s well core s DST run ectional Si	?	<b>⋈</b> No	Yes	s (Submit analysis) s (Submit analysis) s (Submit analysis)
23. Casing	and Liner Rec	ord (Repo	ort all strings	set in v	well)											
Hole Size	Size/C	Size/Grade Wt. (#/ft.)				Bottom S (MD)		tage Cem Depth			of Sks. & Slurry of Cement (BB			Cement Top*		Amount Pulled
17.50		375 J-55	54.5	_	0		618					75			0	
12.25 7.87	_	625 N-80	32.0	1	4700		4533				146	_			4700	
1.87	5 5.2	00 P-110	17.0		4700		8953					15			4700	(
24 77 11	D I															
24. Tubin Size	Depth Set (1	MD) P	acker Depth	(MD)	Siz	70	Denth	Set (MD)	р	acker Der	th (MD)	Size	I D	epth Set (MI	0)	Packer Depth (MD)
Size	Deptil Bet (1	VID) I	аскег Бериг	(IVID)	512	20	Deptil	set (IVID)	1	acker Dep	m (ND)	Size		epin set (ivi	<del>"</del>	Packer Depth (MD)
25. Produc	cing Intervals						26. P	erforation	Reco	ord						
200	Formation		Тор		Bot	ttom		Perfo	rated	Interval		Size		No. Holes	_	Perf. Status
A) B)	DA	KOTA		8775		887	0			8775 T			120	14 14		
C)		-					+			8826 T			420 420	12		
D)											00.0					
27. Acid,	Fracture, Trea		ment Squeez	e, Etc.												
	Depth Interv		22 2500 0	A1 450/	1101 4	040 0	A. 0000	2# 400 ME		mount and			0.0740	0,11,00,150,05		
	8	775 10 8	873 2500 G	AL 15%	HCI, 4	916 B	W, 38900	)# 100 ME	SH /	3125#40/8	0 HYDRO	DPRO LW	C, 2718	0# 30/50 CR	C	
28. Produc	ction - Interva	1 A														
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL			Wat BBI		Oil Gr Corr. A		Gas Grav	rity	Product	Production Method		
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Wat BBI		Gas:O Ratio	il	Well	Status				
28a. Produ	action - Interv	al B														
Date First	Test	Hours	Test	Oil		Gas	Wat		Oil Gr	avity	Gas		Product	ion Method		
Produced	Date	Tested	Production	BBL	N	MCF	BBI		Corr. A		Grav	ity				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Wat BBI		Gas:O Ratio	il	Well	Status		×		

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #391293 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

200. 1 100	duction - Inter	vai C									-	•
ate First oduced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF		Oil Gravity Corr. API	Gas Gravi	ity	Production Method		
oke	. Tbg. Press.	Csg.	24 Hr.	Oil	Gas	Water	Gas:Oil .	Well	Status			
ze .	Flwg.	Press.	Rate	BBL	MCF		Ratio	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Status			
8c. Prod	duction - Inter	val D		<u>L</u> .	т					<u> </u>	·· -	
ite First oduced	Test Date	Hours Tested	Test Production	Oil '	Gas MCF		Oil Gravity Corr. API	Gas Gravi	ty	Production Method		
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oke e	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF		Gas:Oil Ratio	Well	Status			
	osition of Gase	Sold, used	for fuel, vent	ed, etc.)								
	nary of Porou	s Zones (Inc	clude Aquife	rs):					31. Fo	rmation (Log) Ma	rkers	
Show	/ all important	zones of po	orosity and co	ontents ther	eof: Corec	l intervals and all	drill-stem	2		( <b>--</b>		
	ecoveries.	tii iiitei vai t	icstca, cashic	m uscu, um	c tool opc	n, nowing and sin	ut-ni pressure:	•	Ì			
	Formation		Тор	Bottom		Descriptions,	Contents etc		<del>                                     </del>	Name		Top
	Tombuon			Dottoin		Descriptions,	Coments, etc	· · · · · · ·				Meas. D
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. Addit	ional remarks	(include pl	ugging proce	edure):								
. Addit NO T	ional remarks UBING IN T	(include pl HE HOLE	ugging proce TO DATE	edure):								
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NO T	UBING IN T	HE HOLE	lugging proce TO DATE	edure):								
NO T	e enclosed atta	chments:	TO DATE			2. Geologic Pa	nort.		DST Da	unort.	4 Direction	nal Supra
NO T	e enclosed atta	chments:	TO DATE	q'd.)		2. Geologic Re			DST Re	port	4. Direction	nal Survey
NO T	e enclosed atta	chments:	TO DATE	q'd.)		2. Geologic Re 6. Core Analys			DST Re	port	4. Direction	nal Survey
. Circle 1. Ele 5. Su	e enclosed atta ectrical/Mechandry Notice fo	chments: anical Logs or plugging	(I full set re	q'd.) verification		6. Core Analys	is	7	Other:			
. Circle 1. Ele 5. Su	e enclosed atta ectrical/Mechandry Notice fo	chments: anical Logs or plugging	(I full set re	q'd.) verification hed informa	ation is co	6. Core Analys	is t as determine	7 ed from all	Other: available	e records (see attac		
. Circle 1. Ele 5. Su	e enclosed atta ectrical/Mechandry Notice fo	chments: anical Logs or plugging	(I full set reand cement ing and attack	q'd.) verification hed informa	ation is co	6. Core Analys  mplete and correc  1293 Verified by	t as determine	7 ed from all	Other: available	e records (see attac		
NO T	e enclosed atta ectrical/Mechandry Notice fo	chments: anical Logs or plugging	(I full set reand cement ing and attact	q'd.) verification hed informations ronic Subm	ation is consission #39	6. Core Analys	t as determine the BLM W	7 ed from all ell Inform	Other: available action Sy Farming	e records (see attac /stem. ton		
NO T  3. Circle 1. Ele 5. Su  4. I here	e enclosed atta ectrical/Mechandry Notice fo	chments: anical Logs or plugging	ing and attack	q'd.) verification hed informations ronic Subm	ation is consission #39	6. Core Analys  mplete and correc  1293 Verified by YALTY COMPA	t as determine the BLM W NY LLC, se SAVAGE on	od from all lell Informent to the lell 10/10/20	Other: available nation Sy Farming 17 (18JV	e records (see attac /stem. ton	ched instruction	
3. Circle 1. Ele 5. Su 4. I here	e enclosed atta ectrical/Mechandry Notice for eby certify that	chments: anical Logs or plugging the forego	(I full set reand cement ing and attact For Committed A GRIGG	q'd.) verification hed informationic Submite SOUTHL it to AFMS:	ation is consission #39	6. Core Analys  mplete and correc  1293 Verified by YALTY COMPA	t as determine the BLM W NY LLC, se SAVAGE on	od from all ell Inform to the la 10/10/201	Other: available action Sy Farming 17 (18JW	e records (see attac /stem. ton VS0009SE)	ched instruction	
B. Circle 1. Ele 5. Su 1. I here	e enclosed atta ectrical/Mechandry Notice for	chments: anical Logs or plugging the forego	ing and attack	q'd.) verification hed informationic Submite SOUTHL it to AFMS:	ation is consission #39	6. Core Analys  mplete and correc  1293 Verified by YALTY COMPA	t as determine the BLM W NY LLC, se SAVAGE on	od from all lell Informent to the lell 10/10/20	Other: available action Sy Farming 17 (18JW	e records (see attac /stem. ton VS0009SE)	ched instruction	