Form 3160-4

## **UNITED STATES**

FORM APPROVED

Name of Operator	just 1999)			DEPAR' BUREAU				-		ર્ય ક						004-0137 ber 30, 2000	
D. Type of Completion   Mork Over   Deepen   Plug Back   Diff. Resv.	V	WELL CO	MPLE	TION O	R RE	COMP	LETI	ON REP	ORT	AND LOG	•						
2. Name of Operator	Type of We	ell 🔲 Oil											6. If	Indian, Allo	ttee or	Tribe Name	
MARKWÉST RESOURCES INC   E-Mail: Cbush@markwest.com   FULLERTON FEDE	Type of Co								esvr.	7. Unit or CA Agreement Name and No.							
Ph: 303.925.9283   30-0455   30-04	2. Name of Operator Contact: CINDY BUSH											8. Lease Name and Well No. FULLERTON FEDERAL 112					
10. Field and Pool, or Exp. Special TZPN R1 VM Mer MMP	3. Address 155 INVERNESS DRIVE WEST 3a. Phone No. (inc										a code)	<u></u>	9. API Well No.				
At total depth  At top prod interval reported below At total depth  At total depth  15. Date T.D. Reached O3/08/2003  15. Date T.D. Reached O3/08/2003  16. Date Spudded O3/08/2003  17. Date Spudded O3/08/2003  18. Total Depth: MD TVD  17. Elevations (DF, KB, 1603/08/2003)  18. Total Depth: MD TVD  19. Plug Back T.D. MD 1886  20. Depth Bridge Plug Set: MI TV Was DST frun? Directional Survey? No Set St Size Oracle Wt. (#/t.) Top Bottom Stage Cementer No. of Sks. & Slurry Vol. Type of Cement Top*  12.250 8.625 LS 23.0 0 189 1000  12.255 11.0 0 1912 255		Well (Report	location	n clearly an	d in acc	ordance	with Fe	1	ements	*			10. F	ield and Po	ol, or l	Exploratory	
At total depth	Sec 11 T27N R11W Mer NMP									1894 (5 CO C/28)				11. Sec., T., R., M., or Block and Survey			
At total depth	At top prod	interval repo	orted bele	ow					15	enno		\				27N R11W Mer NM	
18. Total Depth:   MD	•	="							1991	100	· ~	<u>1</u>	S	AN JUAN		NM	
TVD									¬ D &	A Read	dy to Pr	od.	17. E			3, RT, GL)*	
22. Was well cored?   No.   Yes (S.   NO.   NEUTRON DENSITY   Size   No.   Yes (S.   No.   Yes (S.   No.   No.   Yes (S.   No.   Yes (S.   No.   No.   Yes (S.   No.   No.   Yes (S.   No.   Yes (S.   No.   No.   Yes (S.   No.   Yes (S.   No.   No.   Yes (S.   No.   Yes	. Total Dept			1912	·	19. Plu	g Back	T.D.:	MD TVD	1866	\\\\\	20. De <sub>l</sub>	oth Bri	dge Plug Se		MD I'VD	
23. Casing and Liner Record   Report all strings set in well)   Hole Size   Size/Grade   Wt. (#/ft.)   (MD)   (MD)   (MD)   Depth   Type of Cement   (BBL)   Cement Top*	Type Elect	tric & Other N ON NEUTRO	Mechani ON DEN	cal Logs Ri ISITY	un (Sub	mit copy	of each		421	11,01,5 22,	Was I	OST run?	i? rvey?	No [ No [ No [	岗 Yes	(Submit analysis) (Submit analysis) (Submit analysis)	
Hole Size   Size   Crade   Wit. (#/it.)   (MD)   (MD)   Depth   Type of Cement   (BBL)   Cement   Lop*	Casing and I	Liner Record	(Report	t all strings	set in w	vell)							•			•	
11.0   0   1912   255	ole Size	Size/Grade Wt. (#/ft.)			•		1 ~			1 7			Cement Top*		Amount Pulled		
24. Tubing Record   Size   Depth Set (MD)   Packer Depth (MD)   Size   Size   No. Holes   Size   No. Ho		<del></del>		23.0				9									
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth Set (MD	6.250	250 4.500 K55		11.0		0	191	2			255						
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth Set (MD	<del></del>							<u>.</u>									
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth Set (MD								+	·····								
Size   Depth Set (MD)   Packer Depth (MD)   Size   Depth Set (MD)   Packer Depth Set (MD																	
23.75			I Boo	Iron Donth	(MD)	Cigo	I Dom	th Cat (MC	<u>,                                    </u>	a alson Domath /I	MD) I	Cina	I Do	-th Cat (MI	5\ T	Dealer Douth (MD)	
26. Perforation Record   Formation   Top   Bottom   Perforated Interval   Size   No. Holes   Formation   Top   Bottom   Perforated Interval   Size   No. Holes   Formation   FRUITLAND COAL   1830   1840   1654 TO 1789   0.450   58   OPEN		<u> </u>		ker Deptn	(MD)	Size	Dep	otn Set (ML	)) P	acker Depth (	MD)	Size	De	pin Set (MI	<del>"</del>	Packer Depth (MD)	
A) FRUITLAND COAL 1830 1840 1654 TO 1789 0.450 58 OPEN B) FRUITLAND COAL 1830 1840 - 1830 TO 1840 0.450 40 OPEN C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.  Depth Interval Amount and Type of Material  1654 TO 1789 FRAC W/110,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  1654 TO 1789 ACDZ W/1500 GALS 15% HCL DROPPING 130-7/8" 1.3 SP  1830 TO 1840 ACDZ LOWER PERFS W/1000 GALS 15% HCL W/88-7/8" 1.3  1830 TO 1840 FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  28. Production - Interval A  Date First Production Date Date Date Date Date Date Date Production BBL Date Production BBL MCF BBL Corr. API Gravity Gas Gravity FLOWS FROM MCF BBL Gas Water Gas Oil Ratio Pews FROM Flows FROM MCF BBL Gas Water Gas Oil Well Status Flwg. 140 Press. Rate BBL BBL MCF BBL Ratio PGW		_					1 20	6. Perforation	on Reco	ord			1			<u></u>	
B) FRUITLAND COAL 1830 1840 - 1830 TO 1840 0.450 40 OPEN C) D) 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.  Depth Interval Amount and Type of Material  1654 TO 1789 FRAC W/110,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  1654 TO 1789 ACDZ W/1500 GALS 15% HCL DROPPING 130-7/8" 1.3 SP  1830 TO 1840 ACDZ LOWER PERFS W/1000 GALS 15% HCL W/88-7/8" 1.3  1830 TO 1840 FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  28. Production - Interval A  Date First Test Date Tested Date Tested Date Tested Date Production Date Tested Date Froduction Date Date Froduction Date Date Tested Date Froduction Date Date Date Froduction Date Date Froduction Date Date Froduction Date Date Date Date Reproduction Date Date Date Froduction Date Date Froduction Date Date Froduction Date Date Production Date Date Date Date Date Date Date Date	Form	nation	T	Тор		Botton	n	Per	forated	Interval		Size	ı	No. Holes		Perf. Status	
Di	FRUI	ITLAND CO	AL		1830	1	840			1654 TO 17	789	0.4	50	58	OPE	V	
D)  27. Acid, Fracture, Treatment, Cement Squeeze, Etc.  Depth Interval  1654 TO 1789 FRAC W/110,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  1654 TO 1789 ACDZ W/1500 GALS 15% HCL DROPPING 130-7/8" 1.3 SP  1830 TO 1840 ACDZ LOWER PERFS W/1000 GALS 15% HCL W/88-7/8" 1.3  1830 TO 1840 FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  28. Production - Interval A  Date First Test Date Production Frested Production BBL MCF BBL Corr. API Gravity Froduction Method Gravity Froduction Date Froduction Fleested Production Size Five 140.0 Fress. Rate BBL MCF BBL Ratio PGW  Choke Size Five 140.0 Fress. Rate BBL MCF BBL Ratio PGW		ITLAND CO	AL		1830	1	840			1830 TO 18	840	0.4	50	40	OPE	V	
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.   Depth Interval							_				_		_				
Depth Interval		ture. Treatme	nt. Ceme	ent Squeeze	e. Etc.										L		
1654 TO 1789 FRAC W/110,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  1654 TO 1789 ACDZ W/1500 GALS 15% HCL DROPPING 130-7/8" 1.3 SP  1830 TO 1840 ACDZ LOWER PERFS W/1000 GALS 15% HCL W/88-7/8" 1.3  1830 TO 1840 FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  28. Production - Interval A  Date First Produced Date Tested Production BBL MCF BBL Corr. API Gravity FLOWS FROM Choke Size Flwg. 140 Press. Rate BBL MCF BBL Ratio PGW		· · · · · · · · · · · · · · · · · · ·		T Squoozi				···	A:	nount and Tvr	ne of M	aterial					
1830 TO 1840   ACDZ LOWER PERFS W/1000 GALS 15% HCL W/88-7/8" 1.3  1830 TO 1840   FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#  28. Production - Interval A    Date First Produced   Date   Test Date   Date   Test Production   Date   Dat		•	TO 178	9 FRAC W	V/110,00	0# 20/40	BRADY	SAND IN 7			pe 01 111	410.141					
1830 TO 1840   FRAC W/85,000# 20/40 BRADY SAND IN 70Q FOAM W/25#		1654	TO 178	9 ACDZ W	V/1500 C	ALS 15%	6 HCL D	ROPPING	130-7/8	1.3 SP							
28. Production - Interval A  Date First		1830	TO 184	10 ACDZ L	OWER	PERFS W	//1000 G	SALS 15% F	ICL W/8	88-7/8" 1.3							
Date First Produced O4/03/2003 O4/09/2003 24 OII Gas Date Production O4/03/2003 O4/09/2003 24 OII Gas Date Production OII Gas DBL Corr. API Gravity Gas Gravity FLOWS FROM OII Gas DBL Corr. API Gravity FLOWS FROM OII Gas DBL Gas DI Ratio PGW			TO 184	10 FRAC W	V/85,000	# 20/40 E	RADY S	SAND IN 70	Q FOAI	л W/25#							
Produced 04/03/2003         Date 04/09/2003         Tested 24         Production 00.0         BBL 0.0         MCF 1.0         BBL 0.0         Corr. API         Gravity         Gravity         FLOWS FROM           Choke Size Fivg. 140 64         Tbg. Press Fivg. 140.0         Cas. Dil BBL 0.0         Water BBL 0.0         Gas. Dil Ratio 0.0         Well Status 0.0         PGW																	
Choke Tbg. Press Csg. 24 Hr. Oil Gas Water Gas:Oil Ratio  64 SI 140.0 — BBL Ratio  PGW							;						Product	ion Method			
Size Fivg. 140 Press. Rate BBL MCF BBL Ratio  64 SI 140.0 Press. Page PGW			24				1.0							FLOW	VS FRO	OM WELL	
	Flw	vg. 140 Pre	ess.				,			il							
28a. Production - Interval B					L						1 P	GW					
Date First Test Hours Test Oil Gas Water Oil Gravity Gas Production Method				Test	Oil	Gas		Water	Oil Gr	avity	Gas		Product	ion Method			
Produced Date Tested Production BBL MCF BBL Corr. API Gravity		1 1		Production	ľ		i	1					FLOWS FROM WELL		OM WELL		

140.0

Rate

BBL

Ss. Csg. 140 Press.

Tbg. Press.

Flwg.

Choke

64

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #20417 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
\*\* REVISED \*\* R

Gas:Oil

Well Status

PGW

Water BBL

Gas MCF

MA SPATED FOR BELOOSE

	uction - Interv													
Date First Produced	Test Date	Hours Tested	Test Production	Oil Gas BBL MCF		Water BBL	Oil Gravity Corr. API	Ga. Gra	s avity	Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio			Status				
28c. Prod	uction - Interv	al D		Τ.	•									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Ga. Gra	s avity	Production Method				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status						
29. Dispo	sition of Gas(S	Sold, used	for fuel, veni	ted, etc.)	•				<del>.</del>					
Show tests, i	nary of Porous all important a including dept coveries.	zones of p	orosity and c	ontents ther	eof: Cored te tool ope	intervals and	all drill-stem I shut-in pressur	res	31. For	mation (Log) Markers				
	Formation		Тор	Bottom		Description	ons, Contents, et	c.	Name Mo					
NACIMIEN OJO ALAI			0 752	752 853						O ALAMO RTLAND UITLAND CTURED CLIFFS	705 860 1480 1851			
32. Additi	onal remarks EMARK PRO	(include p	lugging proce	edure):										
	enclosed attac		(1.6.1)		,		_							
	<ol> <li>Electrical/Mechanical Logs (1 full set req'd.)</li> <li>Sundry Notice for plugging and cement verification</li> <li>Core Analysis</li> </ol>								t 3. DST Report 4. Directional Survey 7 Other:					
34 I herek	ov certify that	the forego	ing and attec	had informe	tion is as	malete and se	most on det	1 F		records (see attached insti				
54. I nerec	by certify that	ine forego	Electi	ronic Subm For MAF	ission #20 RKWEST	417 Verified RESOURCE	by the BLM WES INC, sent to seve Mason on (	Vell Infor	mation Sys	tem.	ructions):			
Name	(please print)	CINDY B			p. 0				-	RESENTATIVE				
Signature (Electronic Submission)								Date 04/09/2003						
Title 18 U of the Uni	.S.C. Section ted States any	1001 and false, ficti	Title 43 U.S. itious or frad	C. Section 1 ulent statem	212, make ents or rep	e it a crime for presentations a	r any person kno is to any matter	owingly as within its	nd willfully jurisdiction	to make to any departmen	t or agency			