

STATE OF
COLORADO

Andrews - DNR, David <david.andrews@state.co.us>

COGCC Document No. 2056033
API No. 05-081-05363**RE: Carpenter 2-32 Recomplete Form 4 #2364029**

Andrews - DNR, David <david.andrews@state.co.us>

Fri, Dec 19, 2014 at 10:29 AM

To: Ben Hurley <BenH@kfoc.net>

Cc: Robbin Jones <robbinj@kfoc.net>, Burris Smith III <Burrism@kfoc.net>, Teresa Mixon <TeresaMi@kfoc.net>, Emily Waldron - DNR <emily.waldron@state.co.us>, Barbara Westerdale - DNR <barbara.westerdale@state.co.us>

Ben,

Thanks for the well status update. A copy of Field Inspection Report #673401126 is attached for your reference. It looks like it was emailed to Mark Carr (contact information on Page 1). All field inspection reports are readily available for download from our website.

If there is a more appropriate KFOC contact (or additional contacts) for field inspection reports, then please notify our Moffat County Field Inspector, Emily Waldron.

Thanks,

Dave

On Fri, Dec 19, 2014 at 10:20 AM, Ben Hurley <BenH@kfoc.net> wrote:

Dave,

No work has been performed on the subject well as of yet.

I have not received the inspection report referenced below. If you can send a copy of it, we'll get any noted issues addressed ASAP.

Ben

On Dec 19, 2014, at 8:30 AM, "Andrews - DNR, David" <david.andrews@state.co.us> wrote:

Robbin,

What is the status of this recomplete operation? Form 4, Sundry Notice #2364029 indicated a planned start date of 9/1/2014. COGCC production records show 30 days of production from the Lewis Formation in September with no report posted for August. KFOC did not provide a satisfactory demonstration to waive Form 4 Condition of Approval #1 regarding remedial cement requirements prior to recompleting the well. If the work was performed in September, then the Form 5 and Form 5A are delinquent (required by COGCC rules and specified as Conditions of Approval #2 and #3, respectively). A Form 42, Notice of Hydraulic Fracture Treatment was not filed.

Has KFOC addressed corrective action identified in COGCC's 9/18/2014 Field Inspection Report #673401126? Road maintenance, installation of proper signs, and debris/trash removal were required by 10/17/2014.

Thanks,

Dave

On Wed, Sep 3, 2014 at 8:26 AM, Robbin Jones <robbinj@kfoc.net> wrote:

Thank you for the information. We will get back to you.

Robbin

From: Andrews - DNR, David [mailto:david.andrews@state.co.us]

Sent: Wednesday, September 03, 2014 9:24 AM

To: Robbin Jones

Cc: Ben Hurley; Burris Smith III

Subject: Re: Carpenter 2-32 Recomplete Form 4 #2364029

Robbin,

The attached file is a one-mile radius water well search around the Carpenter 2-32 well. Well construction data and other data associated with the water wells is available from Colorado Division of Water Resources.

Colorado Geological Survey (Ground Water Atlas of Colorado, 2003) characterizes the Wasatch Formation as "arkosic sandstone and mixed sandstone, siltstone, and coal" and the Fort Union Formation as "interbedded sandstone, siltstone, lignite, and coal." I understand that the coals are concentrated in the Fort Union Formation in this part of the Sand Wash Basin, and most of the Fort Union is uncemented in the Carpenter 2-32 well. I am placing the burden of identifying coal zones and demonstrating isolation of coal zones and any other fresh-water zones (e.g., sandstones) on Kaiser-Francis. Well logs are available for this well and offset wells in COGCC's electronic well files.

Thanks,

Dave

On Wed, Sep 3, 2014 at 7:29 AM, Robbin Jones <robbinj@kfoc.net> wrote:

Mr. Andrews,

Thank you for your consideration of our request. Can you provide details on the depths of the coal seams and water wells in sections 5 and 6 that you refer to below? If this information is on the COGCC web site, please point me to it so I can research what will be required to address the issues you mention below.

Thank you again for your response. We will do further research the issues you raised and get back to you.

Robbin

From: Andrews - DNR, David [mailto:david.andrews@state.co.us]
Sent: Tuesday, September 02, 2014 12:35 PM
To: Robbin Jones
Cc: Ben Hurley; Burris Smith III
Subject: Re: Carpenter 2-32 Recomplete Form 4 #2364029

Robbin,

Thank you for your analysis of the potential for hydrocarbon zones in the uncemented interval. However, your response does not address the potential for crossflow of water (fresh or saline) between zones, nor does it address the depth(s) of any uncemented coal(s) that have the potential to contain water. Some of the water wells to the southwest of this location in Sections 5 and 6 are drilled deeper than the surface casing in this well, likely with a freshwater source in the lower portion of the Wasatch Formation or the upper portion of the Fort Union Formation.

I am not willing to ease the remedial cement requirement unless you can demonstrate that all freshwater zones are cemented and there is no potential for water crossflow in the uncemented interval of this well.

Thanks,

Dave

David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Region

<image001.jpg>

P 970.625.2497 x1 | F 970.625.5682 | C 970.456.5262
796 Megan Avenue, Suite 201, Rifle, CO 81650
david.andrews@state.co.us | www.colorado.gov/cogcc

On Thu, Aug 28, 2014 at 9:35 AM, Robbin Jones <robbinj@kfoc.net> wrote:

Dear Mr. Andrews,

I am the project engineer for the area in which the JE Carpenter 2-32 is located.

Please find attached to this email a letter in response to the Condition of Approval requiring cementing the subject well from current TOC to surface prior to recompletion.

Please contact me if you have questions.

Sincerely,

Robbin W. Jones, PE

Sr. Project Engineer

Rocky Mountain Region

Kaiser-Francis Oil Co.

6733 S. Yale Ave.

Tulsa, OK 74136

Direct 918-491-4419

From: Teresa Mixon

Sent: Thursday, August 21, 2014 11:37 AM

To: Ben Hurley; Burris Smith III

Cc: Charlotte VanValkenburg

Subject: FW: Carpenter 2-32 Recomplete Form 4 #2364029

From: Andrews - DNR, David [<mailto:david.andrews@state.co.us>]

Sent: Thursday, August 21, 2014 11:33 AM
To: Teresa Mixon
Cc: Emily Waldron - DNR
Subject: Carpenter 2-32 Recomplete Form 4 #2364029

Teresa,

I just approved the subject Form 4 with the following comments and COAs:

Comments

The current wellbore configuration (production casing TOC at 2525' with uncemented annulus from 2525' to the surface casing shoe at 325') is not compliant with Rule 209 (protection of coal seams) and Rule 317.d., which requires "The casing program adopted for each well must be so planned and maintained as to protect any potential oil or gas bearing horizons penetrated during drilling from infiltration of injurious waters from other sources, and to prevent the migration of oil, gas or water from one (1) horizon to another, that may result in the degradation of ground water." The Fox Hills, Lance, Fort Union, and the bottom portion of the Wasatch Formation are uncemented with the potential for cross flow of fluids between formations.

Conditions of Approval

- 1) Remedial cement required behind the production casing from the existing TOC to surface prior to performing the Lewis recompletion.
- 2) Submit new Form 5 to document the change of wellbore configuration within 30 days after the work. Attach copies of the pre-recomplete cement bond log and contractor cement verification reports showing circulation of remedial cement to surface.
- 3) Submit new Form 5A to document the change of gross perforation interval in the Lewis and stimulation details within 30 days after the work. Attach a new, post-remediation wellbore diagram.

Please notify your engineering/field staff of the additional requirements. Our system should send you a copy of the approved Form 4 shortly.

Thanks,

David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Region

<image001.jpg>

P 970.625.2497 x1 | F 970.625.5682 | C 970.456.5262
796 Megan Avenue, Suite 201, Rifle, CO 81650
david.andrews@state.co.us | www.colorado.gov/cogcc



insp_673401126.pdf

114K

August 27, 2014

VIA EMAIL – david.andrews@state.co.us
Mr. David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Region
Colorado Oil & Gas Conservation Commission
Department of Natural Resources
796 Megan Ave., Suite 201
Rifle, Colorado 81650

Re: JE Carpenter 2-32 Recomplete Form 4 #2364029
NE SW 32-8N-90W
Moffat County, Colorado

Dear Mr. Andrews,

Teresa Mixon forwarded your email to Ben Hurley with our company regarding the proposed recompletion. The first condition of approval listed is cement from the existing TOC @ 2525' to surface prior to performing the Lewis recompletion. The Fox Hills, Lance, Fort Union and the bottom of the Wasatch were all listed in your email as potential oil or gas bearing horizons. Kaiser- Francis Oil Company ("KFOC") respectfully requests that this condition of approval be removed for the following reasons:

- 1) KFOC intends to run a casing bond log ("CBL") to ensure adequate cement bond across the across the proposed recompletion interval (2720-2738') prior to perforating. If the CBL shows poor bond, KFOC will squeeze cement across the recompletion interval prior to perforating.
- 2) KFOC doesn't believe the Fox Hills, Lance or Fort Union have potential to produce oil or gas in the subject well. In the subject well the Fort Union was DST'd from 1125-1283' and recovered 345' of slightly gas cut mud. There were no other hydrocarbon shows in the wellbore.
- 3) A review of COGCC records of all wells drilled in township 8N-90W (59 wells) and township 7N-90W (13 wells) showed that there were only two completions from the potential oil or gas bearing horizons listed above (Fox Hills, Lance, Fort Union and the bottom of the Wasatch), neither of which was commercial. Therefore we do not believe there is commercial potential in the zones listed above in the Carpenter 2-32.
 - a. There has been one completion in the Lance, in the Moffat County 8-26, SE NE 26-8N-90W. The completion report showed that after fracture treatment the gas volume was TSTM (i.e., too small to measure). This well was never produced and was P&A. There is no COGCC production history.
 - b. There has been one Ft. Union completion which was commingled and produced with the Lewis in the McWilliams 15-22, SW SE 22-8N-90W. Prior to P&A cumulative production from both zones was 75 mmcf. Using the reported IP's from the Ft. Unit (628 mcf) and Lewis (1232 mcf) to allocate cumulative production, the Ft. Union made ~ 25 mmcf. This is clearly non-commercial.
- 4) The subject well was completed in November of 1958. Any potential oil and gas zones and or coal seams above current TOC have been exposed to drilling mud for approximately 56 years. Therefore any potential damage to these zones has likely already occurred. Cementing the well to the surface at this time will not reverse any damage that may exist.

In summary, KFOC doesn't believe the Fox Hills, Lance, Fort Union and the bottom of the Wasatch have the potential to produce hydrocarbons in the subject well. The Fort Union was DST'd in the subject well and recovered slightly gas cut mud. A careful review of COGGC records shows that there has not been one commercial completion in any of these zones in the 72 wells drilled to date in township 7N-90W & 8N-90W. These zones have been exposed to drilling mud in the subject wellbore for approximately 56 years, any potential damage to these zones or coal seams has likely already occurred. Therefore, cementing the well to the surface at this time will not reverse any damage that may exist. Therefore we respectfully request that the subject recompletion be approved on the condition that KFOC run a casing bond log prior to recompletion and remediate with a cement squeeze if necessary prior to perforating.

Thank you for your consideration of our request. Please contact me at 918-491-4419 if you have questions.

Sincerely,



Robbin W. Jones, P.E.
Sr. Project Engineer
Rocky Mountain Region

RWJ/rj

Review of Completions in 7N-90W & 8N-90W									
Facility Type	Facility ID/ API	Facility Name/ Number	Operator Name/ Number	Status	Field Name/ Number	Location	Related Facilities	Completion Zone	Notes
WELL	05-081-07390	VISITAINER FEDERAL 9-6-8-90	NANCE PETROLEUM CORPORATION 64450	PA	FORTIFICATION CREEK 26250	MOFFAT 081 NESE 6 8N 90W 6		D&A	
WELL	05-081-07239	VISINTAINER 11-6-8-90	BEARTOOTH OIL & GAS COMPANY 6975	PR	FORTIFICATION CREEK 26250	MOFFAT 081 NESW 6 8N 90W 6		Lewis	
WELL	05-081-06798	OKES 5-6	BEARTOOTH OIL & GAS COMPANY 6975	PR	FORTIFICATION CREEK 26250	MOFFAT 081 SWNW 6 8N 90W 6		Lewis	
WELL	05-081-06810	FEDERAL 13-6	CENEX INC 14825	AL	WILDCAT 99999	MOFFAT 081 SWSW 6 8N 90W 6		Abandoned Location	
WELL	05-081-06899	SPETTERS 43-7	APACHE CORPORATION 3380	DA	CRAIG NORTH 13550	MOFFAT 081 NESE 7 8N 90W 6		Lewis	
WELL	05-081-05387	SPETTER 1	UNKNOWN 1	DA	WILDCAT 99999	MOFFAT 081 SESE 8 8N 90W 6		D&A	
WELL	05-081-06548	SPETTER 5-8	GEOTECH PRODUCTION INC 33825	PR	FORTIFICATION CREEK 26250	MOFFAT 081 SWNW 8 8N 90W 6		Lewis	
WELL	05-081-06461	HITCHENS 16-10	CHANDLER & ASSOCIATES LLC 15850	PA	WILDCAT 99999	MOFFAT 081 SESE 10 8N 90W 6		Dakota J Sand - P&A	
WELL	05-081-06459	N.E. CRAIG STATE 15-10	CHANDLER & ASSOCIATES LLC 15850	AL	WILDCAT 99999	MOFFAT 081 SWSE 10 8N 90W 6		Abandoned Location	
WELL	05-081-06335	ZSCHACH 4-13	CHANDLER & ASSOCIATES LLC 15850	PA	WILDCAT 99999	MOFFAT 081 NWNW 13 8N 90W 6		P&A	
WELL	05-081-07305	ZSCHACH 13-15	BEARTOOTH OIL & GAS COMPANY 6975	PA	CRAIG 13500	MOFFAT 081 SWSE 13 8N 90W 6		D&A	
WELL	05-081-06484	MILLER 12-14	CHANDLER & ASSOCIATES LLC 15850	PA	WILDCAT 99999	MOFFAT 081 NWSW 14 8N 90W 6		D&A	
WELL	05-081-07786	Bulldog 10-34H-890	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 2 15 8N 90W 6		XX-APD	
WELL	05-081-07787	Bulldog 15-21H-890	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 2 15 8N 90W 6		XX-APD	
WELL	05-081-07788	Bulldog 10-24H-890	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 2 15 8N 90W 6		XX-APD	
WELL	05-081-07789	Bulldog 15-11H-890	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 2 15 8N 90W 6		XX-APD	
WELL	05-081-07790	Bulldog 10-24V-890	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 2 15 8N 90W 6		XX-APD	
WELL	05-081-06442	STATE-N.E. CRAIG 14-15	CHANDLER & ASSOCIATES LLC 15850	PA	CRAIG NORTH 13550	MOFFAT 081 SESW 15 8N 90W 6		Lewis	
WELL	05-081-05386	STATE 16-1	OMIMEX PETROLEUM INC 66190	DA	WILDCAT 99999	MOFFAT 081 NWNW 16 8N 90W 6		D&A	
WELL	05-081-06509	SPITZEE STATE 1-16	UNKNOWN 1	PA	WILDCAT 99999	MOFFAT 081 SWSE 16 8N 90W 6		Lewis	
WELL	05-081-06383	BOND A 1-19	ANADARKO PETROLEUM CORPORATION 2795	PA	CRAIG NORTH 13550	MOFFAT 081 SWSW 19 8N 90W 6		Lewis	
WELL	05-081-06549	COLORADO FEDERAL A 1	TXO PRODUCTION CORP 90735	DA	CRAIG NORTH 13550	MOFFAT 081 SENE 21 8N 90W 6		Lewis	
WELL	05-081-06415	STATE 8-22	CHANDLER & ASSOCIATES LLC 15850	PA	CRAIG NORTH 13550	MOFFAT 081 SENE 22 8N 90W 6		Lewis	
WELL	05-081-06336	MCWILLIAMS 15-22	BEARTOOTH OIL & GAS COMPANY 6975	PA	CRAIG NORTH 13550	MOFFAT 081 SWSE 22 8N 90W 6		Lance, Ft. Union, Lewis	Combined perfs - Ft. Union (1120-22, 1132-36), Lewis (2491-94). Cum 75 mmcf, 25 mmcf from Ft. Union by IP allocation.
WELL	05-081-07784	Bulldog 22-41V-890	AXIA ENERGY LLC 10335	WO	WILDCAT 99999	MOFFAT 081 Lot 1 23 8N 90W 6		Waiting on Completion	
WELL	05-081-06503	N.E. CRAIG-STATE 12-23	CHANDLER & ASSOCIATES LLC 15850	PA	CRAIG NORTH 13550	MOFFAT 081 NWSW 23 8N 90W 6		Lewis	

WELL	05-081-07037	SIMPSON 23-8	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 SENE 23 8N 90W 6		Lewis	
WELL	05-081-07302	SIMPSON 24-11	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 NESW 24 8N 90W 6		Lewis	
WELL	05-081-07247	ZSCHACH STATE 24-2	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 NWNW 24 8N 90W 6		Lewis	
WELL	05-081-07186	FROSTY ACRES 1	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 NWNW 24 8N 90W 6		Lewis	
WELL	05-081-07303	SIMPSON 24-10	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 NWSE 24 8N 90W 6		Lewis	
WELL	05-081-07633	GREEN 24-6	BEARTOOTH OIL & GAS COMPANY 6975	AL	CRAIG NORTH 13550	MOFFAT 081 SENE 24 8N 90W 6		Abandoned Location	
WELL	05-081-06505	WINDER 14-24	CHANDLER & ASSOCIATES LLC 15850	AL	WILDCAT 99999	MOFFAT 081 SESW 24 8N 90W 6		Abandoned Location	
WELL	05-081-07378	NOTTINGHAM 25-2	BEARTOOTH OIL & GAS COMPANY 6975	PA	CRAIG NORTH 13550	MOFFAT 081 NWNE 25 8N 90W 6		Lewis - P&A	
WELL	05-081-07442	SIMPSON 25-4	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 NWNW 25 8N 90W 6		Lewis	
WELL	05-081-06663	NE CRAIG ST 12-26	CHANDLER & ASSOCIATES LLC 15850	DA	CRAIG NORTH 13550	MOFFAT 081 NWSW 26 8N 90W 6		D&A - Lewis	
WELL	05-081-06504	MOFFAT COUNTY 8-26	CHANDLER & ASSOCIATES LLC 15850	PA	CRAIG NORTH 13550	MOFFAT 081 SENE 26 8N 90W 6		P&A - Lance	Gas TSTM, not produced. No production history. Well P&A.
WELL	05-081-06483	N.E. CRAIG STATE 8-27	BEARTOOTH OIL & GAS COMPANY 6975	PR	CRAIG NORTH 13550	MOFFAT 081 SENE 27 8N 90W 6		Lewis	
WELL	05-081-05374	GULF STATE 1-27	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	CRAIG NORTH 13550	MOFFAT 081 SWSW 27 8N 90W 6		P&A	
WELL	05-081-05378	GOVT-MCWILLIAMS 1-28	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	CRAIG NORTH 13550	MOFFAT 081 NENE 28 8N 90W 6		P&A	
WELL	05-081-05376	MCWILLIAMS 2-28	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	CRAIG NORTH 13550	MOFFAT 081 NESW 28 8N 90W 6		P&A	
WELL	05-081-05377	W W MCWILLIAMS 1-29	KAISER-FRANCIS OIL COMPANY 45898	PR	CRAIG NORTH 13550	MOFFAT 081 NENE 29 8N 90W 6		P&A - Lewis	
WELL	05-081-06349	FEDERAL-FOX 29-1	SUN EXPLORATION AND PRODUCTION COMPANY 83996	PA	CRAIG NORTH 13550	MOFFAT 081 NWNW 29 8N 90W 6		P&A - Lewis	
WELL	05-081-05373	C A ASHTON 1	CARTER OIL CO 14460	PA	CRAIG NORTH 13550	MOFFAT 081 SESE 30 8N 90W 6		P&A	
WELL	05-081-05372	FOX GOV 1-30	KAISER-FRANCIS OIL COMPANY 45898	PR	CRAIG NORTH 13550	MOFFAT 081 SESW 30 8N 90W 6		Lewis	
WELL	05-081-06086	W W MCWILLIAMS A 1	SUN OIL COMPANY 83992	PA	CRAIG NORTH 13550	MOFFAT 081 CNE 31 8N 90W 6		P&A	
WELL	05-081-06530	SCHIECK 11-31	ARGALI EXPLORATION COMPANY 3975	PR	CRAIG NORTH 13550	MOFFAT 081 NESW 31 8N 90W 6		Lewis	
WELL	05-081-06351	MC WILLIAMS 2-31	ARGALI EXPLORATION COMPANY 3975	PR	CRAIG NORTH 13550	MOFFAT 081 NWNE 31 8N 90W 6		Lewis	
WELL	05-081-06521	MCWILLIAMS 4-31	ARGALI EXPLORATION COMPANY 3975	PR	CRAIG NORTH 13550	MOFFAT 081 NWNW 31 8N 90W 6		Lewis	
WELL	05-081-06337	MCWILLIAMS 8-31	CHANDLER & ASSOCIATES LLC 15850	AL	CRAIG NORTH 13550	MOFFAT 081 SENE 31 8N 90W 6		Abandoned Location	
WELL	05-081-05368	BRUNNER 1	KAISER-FRANCIS OIL COMPANY 45898	PR	CRAIG NORTH 13550	MOFFAT 081 NENE 32 8N 90W 6		Lewis	
WELL	05-081-05363	CARPENTER 2-32	KAISER-FRANCIS OIL COMPANY 45898	PR	CRAIG NORTH 13550	MOFFAT 081 NESW 32 8N 90W 6		Lewis	
WELL	05-081-05370	GOVT-WINDER 1	KAISER-FRANCIS OIL COMPANY 45898	PR	CRAIG NORTH 13550	MOFFAT 081 NENE 33 8N 90W 6		Lewis	
WELL	05-081-05366	GOOCH 2-33	KAISER-FRANCIS OIL COMPANY 45898	SI	CRAIG NORTH 13550	MOFFAT 081 NESW 33 8N 90W 6		Shut-In Lewis	
WELL	05-081-05360	NORTH CRAIG-STATE	GULF OIL CORPORATION	PA	CRAIG NORTH	MOFFAT 081		P&A	

WELL	05-081-05364	1	36600	PA	13550	NENE 34 8N 90W 6		
WELL	05-081-05364	GULF-STATE 1-34	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	CRAIG NORTH 13550	MOFFAT 081 NESW 34 8N 90W 6		P&A
WELL	05-081-06009	STATE 2018	SUN OIL COMPANY 83992	PA	CRAIG NORTH 13550	MOFFAT 081 NWNW 34 8N 90W 6		P&A
WELL	05-081-07379	KAWCAK 35-10	BEARTOOTH OIL & GAS COMPANY 6975	DA	CRAIG NORTH 13550	MOFFAT 081 NWSE 35 8N 90W 6		D&A
WELL	05-081-06664	NE CRAIG ST 6-36	CHANDLER & ASSOCIATES LLC 15850	AL	CRAIG NORTH 13550	MOFFAT 081 SESW 36 8N 90W 6		Abandoned Location
WELL	05-081-05362	GOOCH (7-90) 4-1	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	CRAIG NORTH 13550	MOFFAT 081 NWNE 4 7N 90W 6		P&A
WELL	05-081-07727	Bulldog 5-31H-790	AXIA ENERGY LLC 10335	PR	CRAIG NORTH 13550	MOFFAT 081 LOT6 5 7N 90W 6		Niobrara
WELL	05-081-06334	PLEASANT 5-2	CHANDLER & ASSOCIATES LLC 15850	PA	CRAIG NORTH 13550	MOFFAT 081 NWNE 5 7N 90W 6		P&A
WELL	05-081-07730	Bulldog 6-31H-790	AXIA ENERGY LLC 10335	XX	WILDCAT 99999	MOFFAT 081 Lot 9 6 7N 90W 6		XX-APD
WELL	05-081-06326	CEDAR MOUNTAIN 1	UNKNOWN 1	AL	WILDCAT 99999	MOFFAT 081 SWSE 8 7N 90W 6		Abandoned Location
WELL	05-081-06656	ROGER'S HEIRS 13-9	BWAB INC 5783	DA	UNNAMED 85251	MOFFAT 081 NWSW 9 7N 90W 6		P&A
WELL	05-081-05360	GOVT 11-1	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	WILDCAT 99999	MOFFAT 081 NENE 11 7N 90W 6		P&A
WELL	05-081-06394	JOHNSON 1	UNKNOWN 1	PA	WILDCAT 99999	MOFFAT 081 SESW 11 7N 90W 6		P&A
WELL	05-081-05358	GOV 12-1	UNITED STATES SMELTING REFINING & MINING COMPANY 90900	PA	WILDCAT 99999	MOFFAT 081 SESW 12 7N 90W 6		P&A
WELL	05-081-06652	STATE 16-11	RICHARDSON OPERATING COMPANY 60523	SI	WILDCAT 99999	MOFFAT 081 NWNW 16 7N 90W 6		Shut-In Lewis
WELL	05-081-06662	NE CRAIG ST 16-7	CHANDLER & ASSOCIATES LLC 15850	DA	WILDCAT 99999	MOFFAT 081 SWNE 16 7N 90W 6		D&A
WELL	05-081-06654	STEHLE 17-22	BWAB INC 5783	DA	CRAIG SOUTH 13552	MOFFAT 081 SESW 17 7N 90W 6		D&A
WELL	05-081-06361	VAN DORN 1	COCKRELL OIL CORP 18005	DA	CRAIG 13500	MOFFAT 081 SWSW 29 7N 90W 6		D&A
	72	total						
	13	7N-90W						
	59	8N-90W						

STATE OF COLORADO
OIL AND GAS CONSERVATION COMMISSION
DEPARTMENT OF NATURAL RESOURCES



RECEIVED
MAY 5 1982

File one copy for Patented, Federal and Colorado Oils & Gas Cons. Comm.
File in duplicate for State lands.

5. LEASE DESIGNATION AND SERIAL NO.
FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moffat County

9. WELL NO.
8-26

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 26-T8N-R90W

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other T&A

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other Temporarily Abandoned

2. NAME OF OPERATOR
CHANDLER & ASSOCIATES, INC.

3. ADDRESS OF OPERATOR
1401 Denver Club Building, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 1945' FNL, 786' FEL (SE NE)
At top prod. interval reported below same
At total depth same

NAME OF DRILLING CONTRACTOR
Shelby Drilling

14. PERMIT NO. 82 246 DATE ISSUED 2-18-82

12. COUNTY Moffat 13. STATE Colorado

15. DATE SPUDDED 3-13-82 16. DATE T.D. REACHED 3-20-82 17. DATE COMPL. (Ready to prod.) Perfed 4-15-82 (Perf & Abd.) 18. ELEVATIONS (DF, BEB, RT, GR, ETC.) 6546' GR 19. ELEV. CASINGHEAD --

20. TOTAL DEPTH, MD & TVD 2912' drlr, 2899' lgr 21. PLUG BACK T.D., MD & TVD 2113'

22. IF MULTIPLE COMPL., HOW MANY -- 23. INTERVALS DRILLED BY -- 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) 2084-94 Upper Lance Sand

25. WAS DIRECTIONAL SURVEY MADE no

26. TYPE ELECTRIC AND OTHER LOGS RUN FDC-CNL-GR, BHC-Sonic-GR, DILL-GR

27. WAS WELL CORED YES NO (Submit analysis)
DRILL STEM TEST YES NO (See reverse side)

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8	24	373'	12 1/2"	240	--
5-1/2	15.5	2743'	7-7/8"	185	--

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
n/a				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	2057'	--

31. PERFORATION RECORD (Interval, size and number)

2490-94', 2 spf, 9 holes, 1-9/16 DML
CIBP @ 2349'

2128-34', 2 spf, 23 gr DML, CIBP @ 2230'

2084-94', 2 spf, 23 gr DML, .42"

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
2490-94	Acid w/500gls MSR, Frac-24300g1 foam & 24,500# sand.
2128-34	Acid w/500g1 MSR (7 1/2%).
2084-94	Acid w/ 750 g1 10% MSR.

33. PRODUCTION

DATE FIRST PRODUCTION Perfed 4-15-82 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) flowing WELL STATUS (Producing or shut-in) TEMPORARILY ABANDONED.

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4-16-82	17			--	TSTM	34	--
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
0	120		--	TSTM	48	--	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) n/a TEST WITNESSED BY Bill Reese

35. LIST OF ATTACHMENTS
Logs and geologic report will follow from subcontractors.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED William P. Marx TITLE Senior Engineer DATE 5-3-82

See Spaces for Additional Data on Reverse Side

37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Fox Hills Lewis T.D.	2230 2390 2899		<p>DST #1 2125-2181 - Misrun.</p> <p>DST #2 2125-2182 Lance Formation IF 15", ISI 60", FSI 60", FF 90" Rec. 260' drilling mud, R_w 4.4 @ 54°. 22CFG Sample Chamber 1600 cc drilling mud. 22CFG Pressures: IHP 1087 FHP 1062 IFP 22-60 FFP 63-147 ISIP 906 FSIP 861</p> <p>DST #3 Misrun</p> <p>DST #4 Misrun</p> <p>DST #5 2450-2535' Lewis Formation IF 30", ISI 60", FF 15", FSI 32" Rec. 840' drilling mud. Sample Chamber 175 cc mud. Pressures: IHP 1202 FHP 1201 IFP 479-479 FFP 479-479 ISIP 855 FSIP 928</p>

38.

39. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

OIL AND GAS CONSERVATION COMMISSION
DEPARTMENT OF NATURAL RESOURCES
OF THE STATE OF COLORADO

RECEIVED

SEP 22 1978

05-081-06336



00254639

File in triplicate for Patented and Federal lands.
File in quadruplicate for State lands.

COLO. OIL & GAS COM. COMM.

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

McWilliams

9. WELL NO.

15-22

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 22-T8N-R90W

12. COUNTY

Moffat

13. STATE

Colorado

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR

Chandler & Associates, Inc.

3. ADDRESS OF OPERATOR

1401 Denver Club Bldg, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 2004' FEL; 675.66' FSL (C SW SE)

At top prod. interval reported below

At total depth

14. PERMIT NO.

78 11

DATE ISSUED

1-5-78

15. DATE SPUDDED

6-24-78

16. DATE T.D. REACHED

7-2-78

17. DATE COMPL. (Ready to prod.) or (Plug & Abd.)

8-13-78

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)

6415.90' Ground

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

3030' TD

21. PLUG, BACK T.D., MD & TVD

PBTD 2906'

22. IF MULTIPLE COMPL., HOW MANY

23. INTERVALS DRILLED BY

Rotary-A11

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

1120-22' Ft. Union
2491-94' Lewis 1132-36' Ft. Union

25. WAS DIRECTIONAL SURVEY MADE

No.

26. TYPE ELECTRIC AND OTHER LOGS RUN
Sonic; Dual Induction
Comp. Neutron-Form. Density; Borehole Comp./

27. WAS WELL CORED YES NO (Submit analysis)
DRILL STEM TEST YES NO (See reverse side)

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	306'	12 1/4"	200 SX	-----
5-1/2"	15.5#	3003'	7-7/8"	475 SX	-----

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	2682'	

31. PERFORATION RECORD (Interval, size and number)
2662-64 (4 holes, .37" size)-Set cast iron
2625-28 (4 holes, .37" size) bp @
2491-94 (4 holes, .37" size) 2640'
2307-09' (3 holes, .37" size)-Squeezed w/55
1120-22' (4 holes, .37" size) SX

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	Fraced using 2% KCl gelled water & 70,000# sand
1132-36 (4 holes, .37" size)-Squeezed w/240 sx.	

33. PRODUCTION

DATE FIRST PRODUCTION 8-13-78 (Perf) PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) SI

DATE OF TEST 9-15-78 HOURS TESTED 24 CHOKE SIZE PROD'N. FOR TEST PERIOD 0 OIL—BBL. 0 GAS—MCF. 628 (Ft. Union) 1232 (Lewis) WATER—BBL. No wtr 200 BWP GAS-OIL RATIO N.A.

FLOW. TUBING PRESS. 39# CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

SI, Waiting on market

TEST WITNESSED BY

Jerry Webb

35. LIST OF ATTACHMENTS

Geological Report attached; logs previously sent

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Richard Veghte

TITLE Petroleum Engineer

DATE 9-21-78

See Spaces for Additional Data on Reverse Side

37. SUMMARY OF POROUS ZONES:
 SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS	
				NAME	MEAS. DEPTH
				TOP	TRUE VERT. DEPTH
			DST #1, 1095-1120', Ft. Union. Times: 15" 30", 120", 120". Sample Chamber: 1.5 cf gas, 200 cc muddy water. Pipe recovery-- none. GTS immediately. Initial Final After 120" had 610 HP 543 521 Mcf. Test by Johnston. FP 427-508 427-512 SIP 534 534 DST #2, 2465-2618', Lewis Formation. Times: 15", 60", 120", 120". GTS in 10 min. Pipe Recovery: 60' Initial Final 100 cc mud. Sample HP 1578 1530 Chamber: .5 cf gas; FP 39-407 371-551 700 cc mud. Gas rate SIP 1433 1397 281 Mcf. Test by Lynes. DST #3, 2774-2860', Lewis Formation. Times: 15", 60", 60", 60". Pipe recovery: 50' drlg mud, no gas. Sample Initial Final Chamber: 1800 cc mud, no HP 1458 1458 gas. BHTemp. 106 deg F. FP 26-32 32-37 Test by Johnston. SIP 815 472		
	2418'				

LOG TOP:
 Lewis

Rate/Time Graph

Project: H:\ROBBIN\Marginal Property Review\CARPENTER JE 2-32\KF_Carpenter_2-32_Review_Area.mdb

Date: 8/27/2014

Time: 12:36 PM

Lease Name: MCWILLIAM #15-22 (15)

County, ST: MOFFAT, CO

Location: N8 W90 22 NW SW SE

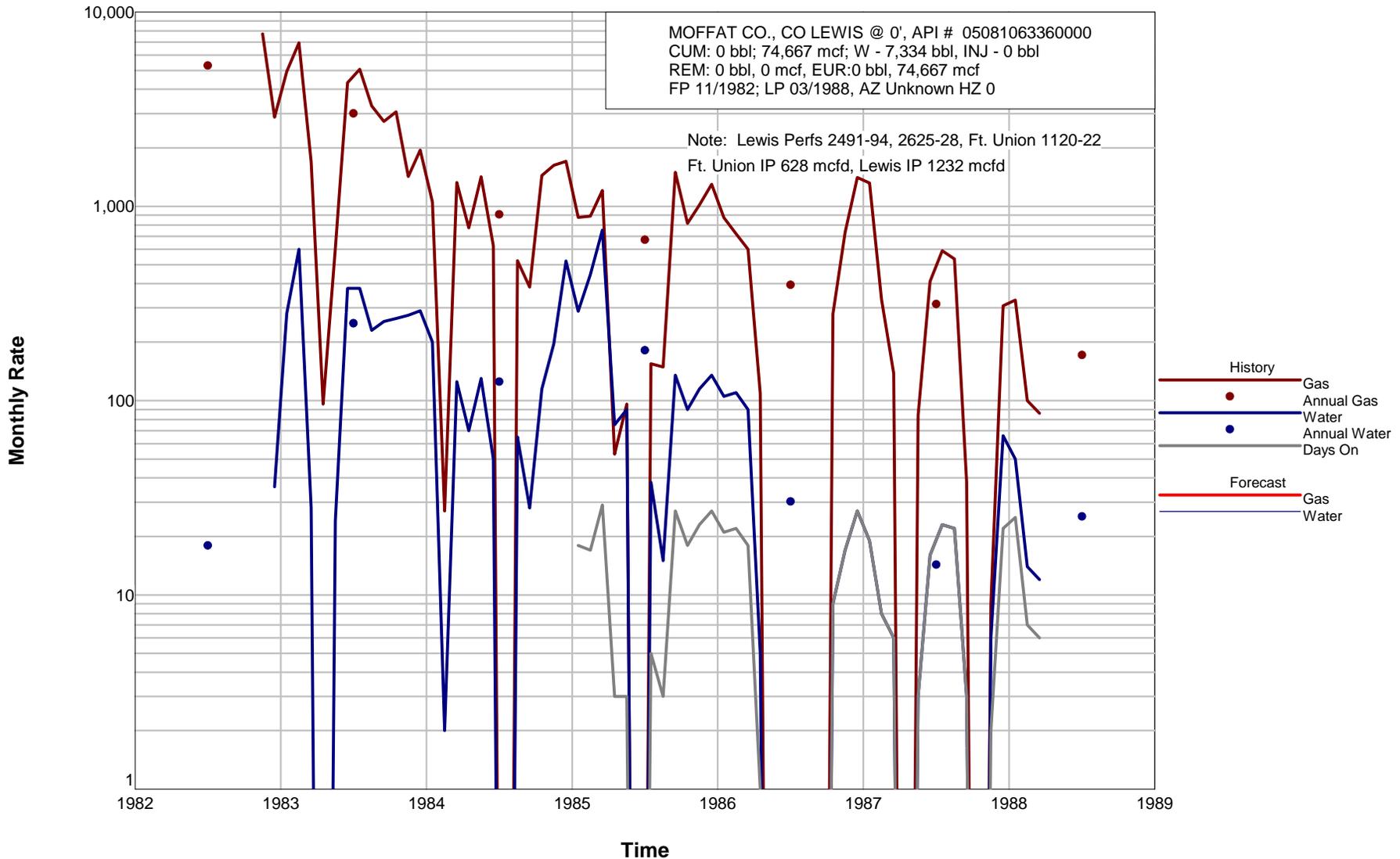
Operator: BEARTOOTH OIL & GAS COMPANY

Field Name: CRAIG NORTH

MCWILLIAM #15-22 (15) 15 - N8 W90 22 NW SW SE - CRAIG NORTH - BEARTOOTH OIL & GAS COMPANY

MOFFAT CO., CO LEWIS @ 0', API # 05081063360000
CUM: 0 bbl; 74,667 mcf; W - 7,334 bbl, INJ - 0 bbl
REM: 0 bbl, 0 mcf, EUR: 0 bbl, 74,667 mcf
FP 11/1982; LP 03/1988, AZ Unknown HZ 0

Note: Lewis Perfs 2491-94, 2625-28, Ft. Union 1120-22
Ft. Union IP 628 mcf/d, Lewis IP 1232 mcf/d




[\(Save as](#)
[pdf\)](#) [\(Flood Observation Report\)](#)

COGCC Results

Selected Items Report

Oil and Gas Wells Selected			
Filter Results by Formation <input type="text"/> Include <input type="text"/> <input type="button" value="Filter"/>			
WELL DESCRIPTION	LOCATION ID	LOCATION	WELL INFORMATION

Water Wells Selected From Map					
Filter Results by Depth <input type="text"/> Greater than <input type="text"/> <input type="button" value="Filter"/>					
WELL DESCRIPTION	LOCATION	WELL INFORMATION			
		Depth	Top Perf	Bottom Perf	Aquifer
Receipt=0088606, Permit=0096610-- BRETZ P	NWNW 5 7 N-90W	0	0	0	GW
Receipt=0364286, Permit=0176172-- KUBERRY MICHAEL J & JUDY E	SWNW 5 7 N-90W	420	380	420	GW
Receipt=9119754, Permit=0118115-- HOEFER JOHN	SWNW 5 7 N-90W	360	0	0	GW
Receipt=0025532A, Permit=0025532-MH- KUBERRY MICHAEL J & JUDY E	SWNW 5 7 N-90W	0	0	0	GW
Receipt=9600851, Permit=0262645-- ROWL JERRY	NENE 6 7 N-90W	320	240	300	GW
Receipt=0432315, Permit=0210188-- RESCH GERALD A II & JANET	NENE 6 7 N-90W	430	390	430	GW
Receipt=9600362, Permit=0237630-- GORDON IDA	SENE 6 7 N-90W	0	0	0	GW
Receipt=9600363, Permit=0237631-- COLBY CARL & KIMBERLY	SENE 6 7 N-90W	275	250	275	GW