



KANSAS CORPORATION COMMISSION 1227515  
OIL & GAS CONSERVATION DIVISION

Form CP-1  
March 2010

This Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL PLUGGING APPLICATION

Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act,  
MUST be submitted with this form.

OPERATOR: License #: \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

API No. 15 - \_\_\_\_\_  
If pre 1967, supply original completion date: \_\_\_\_\_  
Spot Description: \_\_\_\_\_  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  East  West  
\_\_\_\_ Feet from  North /  South Line of Section  
\_\_\_\_ Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Check One:  Oil Well  Gas Well  OG  D&A  Cathodic  Water Supply Well  Other: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  ENHR Permit #: \_\_\_\_\_  Gas Storage Permit #: \_\_\_\_\_

Conductor Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks  
Surface Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks  
Production Casing Size: \_\_\_\_\_ Set at: \_\_\_\_\_ Cemented with: \_\_\_\_\_ Sacks

List (ALL) Perforations and Bridge Plug Sets:

Elevation: \_\_\_\_\_ (  G.L. /  K.B. ) T.D.: \_\_\_\_\_ PBTD: \_\_\_\_\_ Anhydrite Depth: \_\_\_\_\_  
(Stone Corral Formation)

Condition of Well:  Good  Poor  Junk in Hole  Casing Leak at: \_\_\_\_\_  
(Interval)

Proposed Method of Plugging (attach a separate page if additional space is needed):

Is Well Log attached to this application?  Yes  No Is ACO-1 filed?  Yes  No

If ACO-1 not filed, explain why:

Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission

Company Representative authorized to supervise plugging operations: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Plugging Contractor License #: \_\_\_\_\_ Name: \_\_\_\_\_

Address 1: \_\_\_\_\_ Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

Proposed Date of Plugging (if known): \_\_\_\_\_

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Submitted Electronically



### CERTIFICATION OF COMPLIANCE WITH THE KANSAS SURFACE OWNER NOTIFICATION ACT

*This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.*

Select the corresponding form being filed:  C-1 (Intent)  CB-1 (Cathodic Protection Borehole Intent)  T-1 (Transfer)  CP-1 (Plugging Application)

OPERATOR: License # \_\_\_\_\_  
Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_  
Contact Person: \_\_\_\_\_  
Phone: ( \_\_\_\_\_ ) \_\_\_\_\_ Fax: ( \_\_\_\_\_ ) \_\_\_\_\_  
Email Address: \_\_\_\_\_

Well Location:  
\_\_\_\_ - \_\_\_\_ - \_\_\_\_ - \_\_\_\_ Sec. \_\_\_\_ Twp. \_\_\_\_ S. R. \_\_\_\_  East  West  
County: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

*If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:*

**Surface Owner Information:**

Name: \_\_\_\_\_  
Address 1: \_\_\_\_\_  
Address 2: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

*When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.*

*If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.*

**Select one of the following:**

- I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.
- I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I must provide the name and address of the surface owner by filling out the top section of this form and that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

*If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.*

I Submitted Electronically

I

Form	CP1 - Well Plugging Application
Operator	McElvain Energy, Inc.
Well Name	HERRICK 1-927
Doc ID	1227515

Perforations And Bridge Plug Sets

Perforation Top	Perforation Base	Formation	Bridge Plug Depth
2928	2932	Wabaunsee	
2968	2974	Wabaunsee	
			3070
			4350
4372	4382	Marmaton	

# MCELVAIN ENERGY, INC.

## HERRICK #1-927

NAD 27  
 Lat: 37.4086544°  
 Lon: -101.6722355°  
 API: 15-187-20913

Location: NENESE Sec. 27, T30S-R27W, Stanton County, KS  
 Elevation: 3,272' GL 3,282' KB  
 Spud: 11/30/1998 Field: Shore  
 TD: 12/8/1998 Sales Meter: 22125  
 Complete: 1/18/1999 (Wabaunsee Completion) Flowing  
 Recomplete: 10/9/1999 (Frac Wabaunsee) Pumping

Btm Fresh Water 370'  
 Btm Use Water 560'

**Proposed Cement Plug #4: Perforate Squeeze Holes 600' - 601'. M&P 175 sx down 600' 601' 4-1/2" casing through squeeze holes at 600' and up 8-5/8" x 4-1/2" annulus to surface.**

Bs Stone Corral 1,650'  
 8-5/8" Shoe 1,731'  
 (CBL) TOC 1,750'  
 Chase 2,500'



43 jts 8-5/8", 24# Limited Service Casing set @1,731' - 12-1/4" OH  
 M&P 600 sx 65/35 Poz/"C" Lead, 150 sx "C" Tail  
 Circulated cement (12/01/1998)

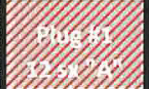
**Proposed Cement Plug #3: M&P 10 sx (141') "A" Common 1,751' 1,610' In 4.5" casing**

Council Grove 2,814'  
 Wabaunsee 2,920'



**Proposed Cement Plug #2: WL set CIBP @2,875'. Dump bail 4 sx "A" Common on 2,875' 2,825' top of CIBP @2,875'.**

CIBP (12-17-12) 3,070'  
 (CBL) DV Tool 3,081'



2,928' 2,932' 4' 2 spf 8 Holes Wabaunsee  
 2,968' 2,974' 6' 2 spf 12 Holes Perforations

**Proposed Cement Plug #1: M&P 12 sx (170') "A" Common on top of CIBP @3,070' 3,070' 2,900'**

Topeka 3,283'  
 Heebner SH 3,646'  
 Toronto 3,653'  
 Lansing 3,735'

Tights Spots 3,952'-75'  
 TOC 1st Stage 4,030'

Possible Casing Leak

Marmaton 4,307'  
 CIBP 4,350'

DB 2 sx (20' Fill) Cement on CIBP (01-13-99)

4,372' 4,382' 10' 2 spf 20 Holes

**Marmaton (1-11-99) 100% Water**

Cherokee 4,468'  
 PBDT 4,487'  
 Atoka 4,736'  
 Morrow 4,903'  
 Chester 5,262'  
 St. Louis 5,394'  
 TD 5,575'

112 jts Used 4-1/2", 10.5#, J-55 Casing landed at 4,500' in 7-7/8" OH  
 Stage #1: 120 sx AMD, lead & 160 sx ASC + 10% NaCl, tail.  
 Stage #2: 265 sx AMD, circ 20 sx to pit (3-24-14).



# MCELVAIN ENERGY, INC.

## HERRICK #1-927

NAD 27  
 Lat: 37°40'86.544"<sup>0</sup>  
 Lon: -101°6'722.355"<sup>0</sup>  
 API: 15-187-20913



Location: NENESE Sec. 27, T30S-R27W, Stanton County, KS  
 Elevation: 3,272' GL 3,282' KB  
 Spud: 11/30/1998 Field: Shore  
 TD: 12/8/1998 Sales Meter: 22125  
 Complete: 1/18/1999 (Wabaunsee Completion) Flowing  
 Recomplete: 10/9/1999 (Frac Wabaunsee) Pumping

Btm Fresh Water 370'  
 Btm Use Water 560'

### Tubing Detail (12/18/2012)

	Length	Top	
KB	6.00'		EWS Rig #6
91 jts	3,020.29'		2-3/8", 4.7#, J-55, 8rd
SN	1.10'	3,026.29'	
Perf Sub	4.00'		
MA	31.00'		
<b>EOT</b>	<b>3,062.39'</b>	<b>Estimated</b>	

Btm Stone Corral 1,650'  
 8-5/8" Shoe 1,731'  
 (CBL) TOC 1,750'  
 Chase 2,500'  
 Council Grove 2,814'  
 Wabaunsee 2,920'

43 jts 8-5/8", 24# Limited Service Casing set @1,731' - 12-1/4" OH  
 M&P 600 sx 65/35 Poz/"C" Lead, 150 sx "C" Tail  
 Circulated cement (12/01/1998)

CBL (01-10-99)

### (12-14-12) 2. Set Packer @2,907': test backside 300 psi - good

2,928'	2,932'	4'	2 spf	8 Holes (1) 2,000 gals 15% HCl
2,968'	2,974'	6'	2 spf	12 Holes Fe with 35 RCN balls

CIBP (12-17-12) 3,070'

180 gals: 1,480 psi; 360 gals: 2,100 psi; 380 gals: 1,990 psi; ISIP: 5,560 psi

(CBL) DV Tool 3,081'

(12-17-12) 3. Test  
 3,011' - 3,075' 350  
 psi Good.

2 min SI: Vac. R(avg): 6.4 bpm; P(avg): 1,550 psi; Cl: 93,522 (01-14-99)

(2) 70Q N2 frac down 4-1/2": (1-3 ppg) 16/30 white, 10 balls, (1-3 ppg) 16/30 Ottawa (Sand Wedge 80) Tail. R(avg): 16.3 bpm; P(avg): 1,225 psi; ISIP: 1,266 psi. 33,200# sand; 290 mcf N2; 270 bbls load (8-25-99)

Topeka 3,283'

### (12-14-12) 1. Set Packer @3,117': pump 1 bpm, 0 psi. Leak somewhere from CIBP @4,350' to 2,907'.

Heebner SH 3,646'

### Rod/Pump Detail (12/18/2012)

	Length	Top	
	14.00' in		1-1/8" x 16' Polish Rod
120 Rods	3,000.00'		5/8" Rods Estimated
Pony	2.00'		5/8" Pony Rod
	10.00'		2" x 1-1/4" x 10' RWBC
	3,026.00'		

Toronto 3,653'

Lansing 3,735'

Tights Spots 3,952'-75'

Casing Leak?

TOC 1st Stage 4,030'

Marmaton 4,307'

CIBP 4,350'

DB 2 sx (20' Fill) Cement on CIBP (01-13-99)

4,372'	4,382'	10'	2 spf	20 Holes <span style="background-color: #0070C0; color: white; padding: 2px;">Marmaton (1-11-99) 100% Water</span>
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Cherokee 4,468'

PBTD 4,487'

112 jts Used 4-1/2", 10.5#, J-55 Casing landed at 4,500' in 7-7/8" OH

Atoka 4,736'

Stage #1: 120 sx AMD, lead & 160 sx ASC + 10% NaCl, tail.

Morrow 4,903'

Stage #2: 265 sx AMD, circ 20 sx to pit (3-24-14).

Chester 5,262'

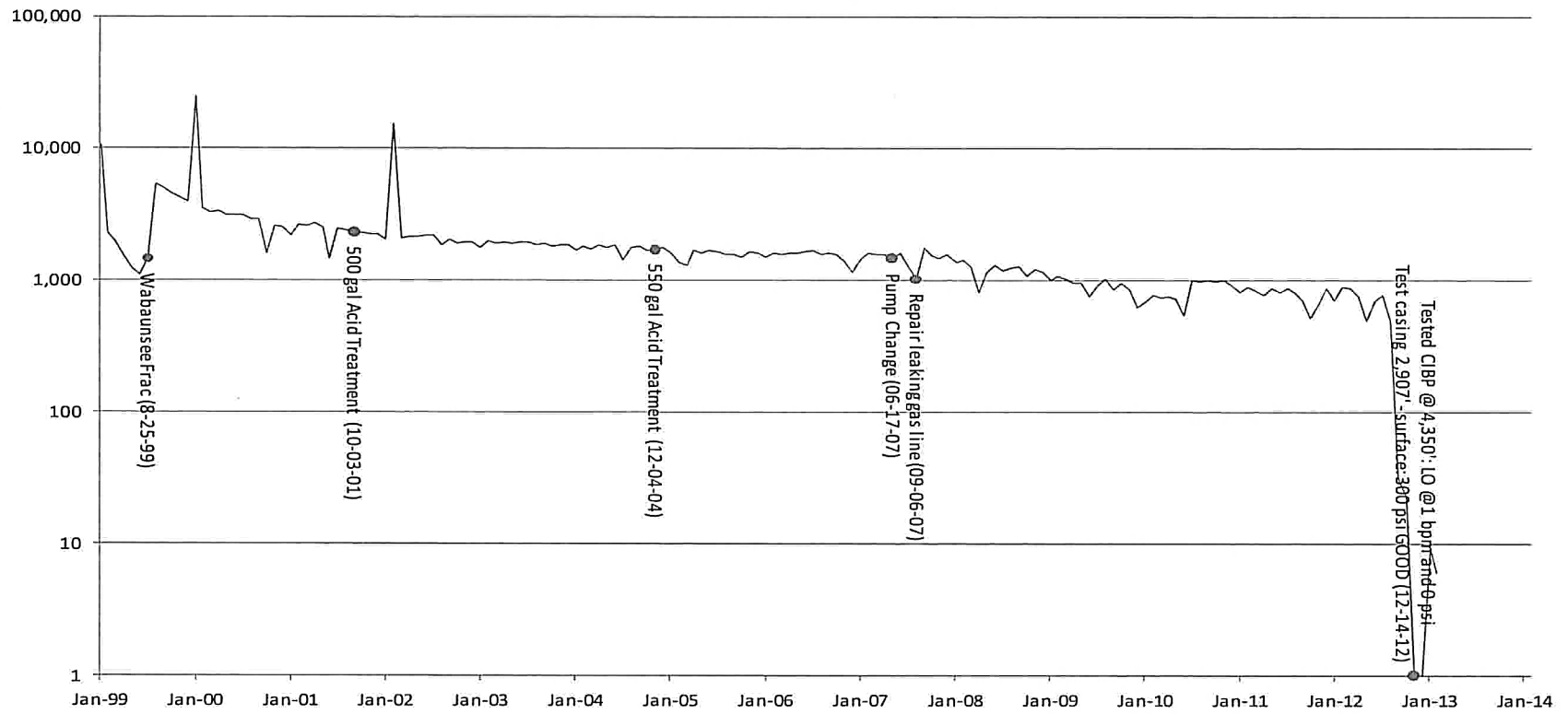
St. Louis 5,394'

TD 5,575'

### Herrick #1-927

Cummulative Production: 312,893 mcf

Last Production: May, 2013



**Herrick # 1 - 927**  
**NENESE Sec. 27, T30S-R27W**  
**Stanton County, Kansas**  
**API # 15-187-20913**

**Plug & Abandon Proposal**  
**October 30, 2014**

**Directions to Location:** From Ulysses, KS; 11 miles west on 180; 11 miles south on Big Bow Grade; 6 miles west on Rd 23; 5/8 mile south on Rd H and west into.

Drill TD: 5,569' (Logger)      KB: 10'      PBSD: 3,070' (CIBP – No cmt 12/17/12)

**CASING:**

8.625", 24#, Limited Service, (Tested to 2,000 psi) set @ 1,731' in 12.25" hole.  
Cemented w/600 sacks 65/35 Class 'C' POZ Lead and 150 sacks Class 'C' Tail

4.5", 10.5#, Used J-55 (Tested to 500 psi 'surface pressure') Casing set at 4,500' in 7.875" hole. Stage Tool @ 3,081'. 1<sup>st</sup> Stage Cemented w/120 sacks AMD, lead & 160 sx ASC + 10% NaCl, tail. 2<sup>nd</sup> Stage Cemented w/265 sacks AMD with 20 sx circulated to pit.

CBL dated January 10, 1999 Indicates Good Bond on 1<sup>st</sup> Stage from PBSD at 4,475' to TOC at 4,030'. Good Bond on 2<sup>nd</sup> Stage from DVT at 3,081' to 2,600' and good to fair bond from 2,600' to TOC at 1,750'.

**DEPTHS/TOPS of NOTE:**

Bottom Fresh Water	370'
Bottom Useable Water	560'
Base of Stone Corral	1,650' KB
Surface Casing Shoe	1,734' KB
Red Beds (Glorietta)	1,734-2,500' KB
(CBL) TOC 2 <sup>nd</sup> Stage	1,750' KB
Wabaunsee Perfs	2,928' – 2,932' KB
	2,968' – 2,974' KB
CIBP	3,070' (No Cement)
DV Tool	3,077' KB
Heebner	3,646' KB
"Tight" Spot in Csg	3,952 – 3,972' KB (Possible Casing Leak)
TOC 1 <sup>st</sup> Stage	4,030' KB
CIBP	4,350' (Capped w/2x (~20') cement)
Marmaton Perfs	4,372' – 4,382' KB
Cherokee	4,468' KB
Original PBSD	4,475' KB (CBL) (1/10/1999)
St. Louis	5,394' KB
Total Depth	5,569' KB



### TUBING CONFIGURATION:

*Tubing Assembly: MA (31'), Perf Sub (4'), SN (1.1'), 91 jts, 2-3/8", 4.7 #/ tubing, SN @ 3,026' KB, EOT ± 3,062' KB*

### ROD CONFIGURATION:

*Rod Assembly: 2" x 1-1/4" x 10' RWBC Pump, 5/8" Pony (2'), ~120 5/8" Rods (3,000'), 1-1/8" x 16' Polish Rod.*

### VARIOUS PIPE CAPACITIES & ASSUMED CEMENT YIELDS

4.50", 10.5 #/ft = 0.0895 ft<sup>3</sup>/ft capacity  
8.625", 24 #/ft = 0.3576 ft<sup>3</sup>/ft capacity  
8.625", 24 #/ft x 4.5" = 0.2471 ft<sup>3</sup>/ft annular capacity  
2-3/8", 4.7 #/ft = 0.02171 ft<sup>3</sup>/ft capacity  
4.50", 10.5#/ft x 2-3/8" 4.7 #/ft = 0.0588 ft<sup>3</sup>/ft annular capacity  
8.625", 24 #/ft x 2-3/8" 4.7 #/ft = 0.3268 ft<sup>3</sup>/ft annular capacity

Type 'A' Common Cement: 1.18 ft<sup>3</sup>/sk YIELD, 15.8 ppg, Water: 5.2 gal/sk

#### *Proposed Plugs*

**PLUG # 1 (3,070' – 2,900' In 4-1/2" Casing)** – RIH with tbg and Cap CIBP @3,070' (12/17/2012) with 12 sx "A" Common. Est. TOC: 2,900' in 4-1/2" casing

**PLUG # 2 (2,875' – 2,825' In 4-1/2" Casing)** – WL set CIBP @2,875'. Dump bail 4 sx "A" Common (~50') cement (2 dump-bailer runs). Est. TOC: 2,825' in 4-1/2" casing

**PLUG # 3 (1,751' – 1,650' In 4-1/2" Casing; 1,751' – 1,450' In 8-5/8" x 4-1/2" Annulus)** – RIH with tbg to 1,751'. M&P 10 sx "A" common (141' balanced plug). Est. TOC: 1,610' in 4-1/2" casing

**PLUG # 4 (600' – Surface In 4-1/2" Casing and In 8-5/8" x 4-1/2" Annulus)** – Shoot squeeze holes in 4.5" casing @600'. M&P 175 sx "A" Common down 4-1/2" casing and out squeeze holes @600' (600' plug inside 4.5" & ±600' plug in 8-5/8" x 4-1/2" annulus).

### PROPOSED PROCEDURE:

1. Notify Kansas Conservation Commission, District Office # 1 in Dodge City (620) 225-8888 at least 5 working days prior to the start of plugging operations.
2. Set temporary anchors. MIRU service rig. **Dig working pit (see CDP1 – pit application).** Deliver necessary tubing, pump & tank, pipe racks or tubing float, trash trailer, toilet, sugar & stripping head. Shoot fluid level.
3. Obtain bradenhead pressure. Bleed off & perform pump-in test.
4. NU BOPE.
5. PU tubing to tag CIBP @3,070'.
6. PU off CIBP. Mix & pump 12 sx cement above CIBP.
7. PU ± 100' above TOC & circulate hole until clean with water.
8. Standback a total of 1,700' of tubing & laydown remainder.
9. RU WL. MU & RIH w/CIBP, setting same @ 2,875'.
10. Load casing with water.
11. MU dump-bailer & place 4 sacks cement on top of CIBP.

12. TIH with tubing to 1,750'.
13. Mix, pump and displace a 10 sx balanced cement plug from 1,750' to ~1,600' inside 4-1/2" casing. TOH with tubing.
14. RU wireline. MU squeeze gun. RIH & shoot squeeze holes @ 600'. RD wireline.
15. Tie onto 4-1/2" casing & establish circulation through squeeze holes.
16. Mix, pump & circulate 175 sx cement, leaving 600' cement inside 4.5" casing and 600' inside 8-5/8" x 4-1/2" casing annulus.
17. Washout BOP. RD cementers. ND BOP.
18. Dig out & Cut-off wellhead.
19. RDMO service rig.
20. Install dry-hole plate. Drain, Break-out & haul off battery equipment.
21. Notify gas purchaser of abandonment.
22. Reclaim location & access road.

										Water	Slurry
<b>Cement Calculations Plug #4</b>		172 sx									
Type 'A' Common Cement:	1.18 ft3/sk	Mix Water:	5.20 gal/sk								
Perforate	600'	601'									
Capacity 4-1/2"	0.0895 ft3/ft	601' cmt	0.09 gal/sk	= 53.8 ft3	1.18 ft3/sk	45.6 sx	46.0 sx				
Annular 8-5/8" x 4-1/2"	0.2471 ft3/ft	601' cmt	0.25 gal/sk	= 148.5 ft3	1.18 ft3/sk	125.9 sx	126.0 sx				
							<u>172.0 sx</u>	894.4 gals	21 bbls	36.0 bbls	
<b>Cement Calculations Plug #3</b>		11 sx									
Type 'A' Common Cement:	1.18 ft3/sk	Mix Water:	5.20 gal/sk								
Capacity 4-1/2"	0.0895 ft3/ft										
(CBL) TOC	1,750'	141' cmt	0.09 gal/sk	= 12.6 ft3	1.18 ft3/sk	10.7 sx	11.0 sx	57.2 gals	1 bbls	2.2 bbls	
<b>Cement Calculations Plug #2</b>		4 sx									
Type 'A' Common Cement:	1.18 ft3/sk	Mix Water:	5.20 gal/sk								
Capacity 4-1/2"	0.0895 ft3/ft										
Perfs	2,968'	2,974'									
CIBP @	3,070'	50' cmt	0.09 gal/sk	= 4.5 ft3	1.18 ft3/sk	3.8 sx	4.0 sx	20.8 gals	0.5 bbls	0.8 bbls	
<b>Cement Calculations Plug #1</b>		13 sx									
Type 'A' Common Cement:	1.18 ft3/sk	Mix Water:	5.20 gal/sk								
Capacity 4-1/2"	0.0895 ft3/ft										
Perfs	2,968'	2,974'									
CIBP @	3,070'	170' cmt	0.09 gal/sk	= 15.2 ft3	1.18 ft3/sk	12.9 sx	13.0 sx	67.6 gals	2 bbls	2.7 bbls	
<b>Total Cement</b>				234.6 ft3			<u>200.0 sx</u>	1,040.0 gals	25 bbls	<u>41.8 bbls</u>	



October 28, 2014



**McElvain Energy, Inc.**  
Denver, Colorado 80265-0914

Herrick # 1-927  
Sec: 27 - T30S - R27W  
Stanton County, Kansas  
API Number:

## **Cementing Proposal 2 3/8 " Plug**

**Prepared For:** Jim McKinney  
Business Phone: 303-962-6480  
Mobile Phone: 720-227-4550  
Email: jim.mckinney@mcelvain.com

**Prepared By:** Neal Rupp  
Business Phone: 316-260-3368  
Mobile Phone: 316-250-7057  
Email neal.rupp@alliedservices.com

**Service Point:** Liberal, KS  
Business Phone 620-624-5937  
Manager Kenny Baeza  
Mobile Phone 620-482-0055  
E-mail kenny.baeza@alliedservices.com

**Fields Sales Coordinator:** Max Ball  
Mobil Phone: 785-324-2754  
E-Mail: max.ball@alliedservices.com  
Liberal, Kansas

**Cement Coordinator:** Kirby Harper  
Mobil Phone: 620-655-5137  
E-Mail: kirby.harper@alliedservices.com  
Liberal, Kansas

***THANK YOU FOR YOUR BUSINESS!***

Operator Name: McElvain Energy, Inc.  
 Well Name: Herrick # 1-927  
 October 28, 2014



**Job Information**

**2 3/8 " Plug**

1st Plug:	CIPB	3,070 ft. MD
2nd Plug	Dump Bailer / CIBP	2,875 ft. MD
3rd Plug	Base Surface	1,750 ft. MD
4th Plug	Casing	600 ft. MD
Previous Casing		4,500 ft. MD
Outer Diameter		4 1/2 in.
Inner Diameter		4.052 in.
Linear Weight		10.50 lbs/ft
Casing Grade		J-55
Drill Pipe or Tubing		3,070 ft. MD
Outer Diameter		2 3/8 in.
Inner Diameter		1.867 in.
Linear Weight		5.80 lbs/ft
Pipe Grade		N-80

**Job Calculations**

**2 3/8 " Plug**

**1st Plug: 2 3/8 Tubing** 12sk @ 3070 ft. 2.5 Slurry (170 ft pipe in) Displace 11.3 bbls

**2nd Plug: 4 1/2 Casing** 4sk @2875 ft(CIPB) / Dump Bailer .85 Slurry

**3rd Plug: 2 3/8 Tubing** 10sk @ 1751 ft. 2.1 Slurry(141 ft Pipe in) Displace 6.3 bbls

**4th Plug: 4 1/5 Casing** 175sk @ 600 ft perfs / Down Casing - 36.5 bbls Slurry - Clear Line Shut in

**Lead Cement** 235.03 ft<sup>3</sup>  
 41.86 bbls  
 200.00 sks  
 375.20 ft of fill

Operator Name: McElvain Energy, Inc.  
 Well Name: Herrick # 1-927  
 October 28, 2014



**Pump Schedule**

**2 3/8 " Plug**

Fluid #	Fluid Type - Name	Surface Density (lb/gal)	Estimated Avg. Rate (bbl/min)	Downhole Volume (bbl)	Water Required (bbl.)
Load Hole	Fresh Water	8.34	5	20.0	20.0
Plug 1	CLASS A COMMON	15.80	5	2.5	1.5
Displacement	Fresh Water	8.34	5	11.3	11.3
Plug 2	CLASS A COMMON / dump bailer	15.80		0.8	0.5
Load Hole	Fresh Water	8.34	5	10.0	10.0
Plug 3	CLASS A COMMON	15.80	5	2.1	1.3
Displacement	Fresh Water	8.34	5	6.3	6.3
Load Hole	Fresh Water	8.34	5	10.0	10.0
Plug 4	CLASS A COMMON	15.80	5	36.5	21.7
Clear Line	Fresh Water	8.33	1	0.5	0.5

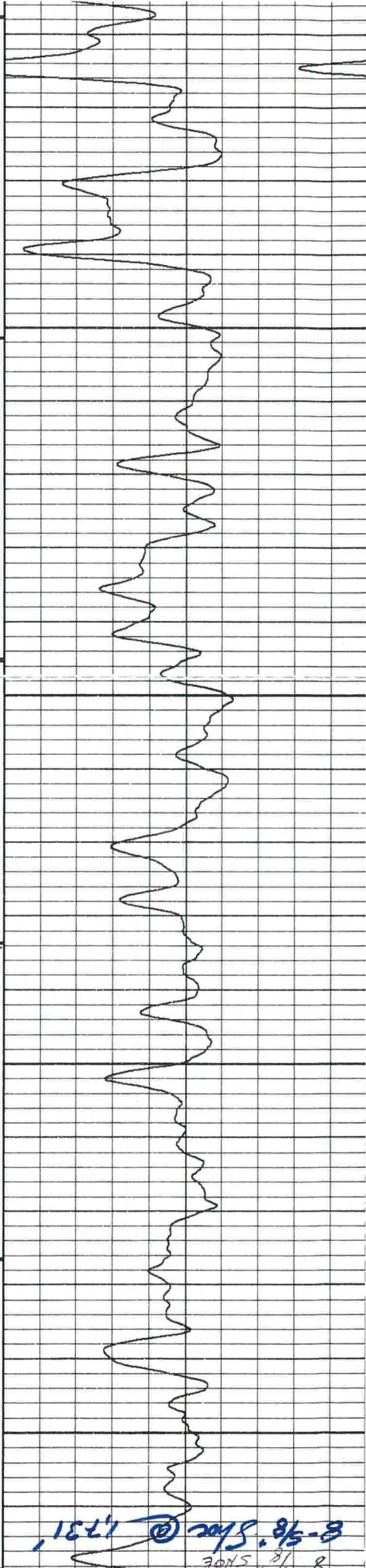
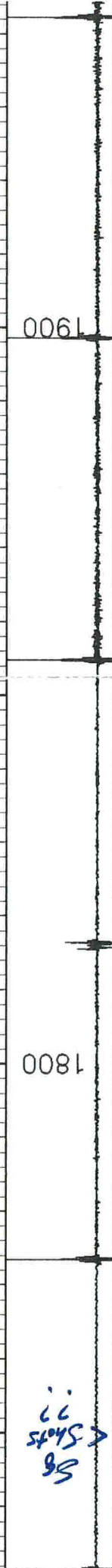
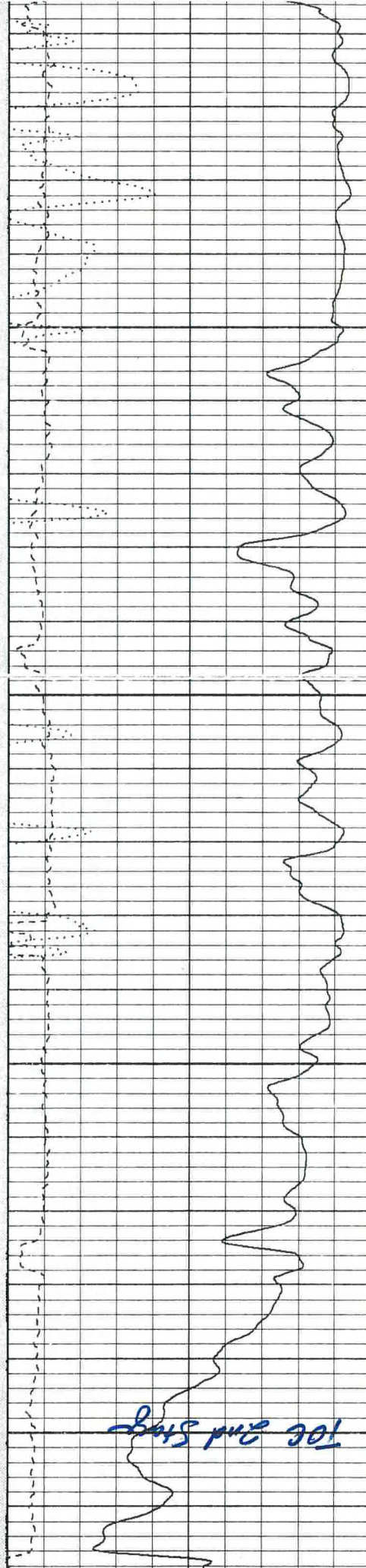
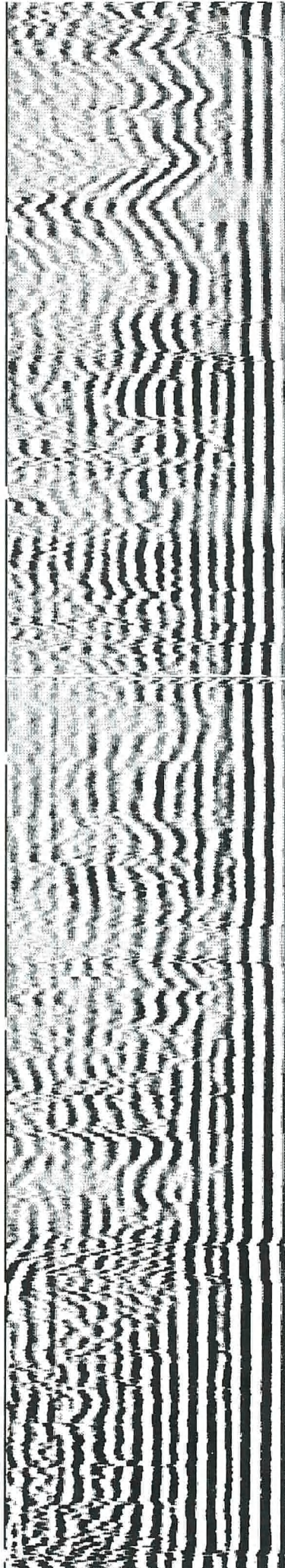
**TOTALS**                      100.0                      83.1  
 Estimated pump time @ 4 bpm      0.42                      hrs

**Fluids Design**

**2 3/8 " Plug**

Load Hole Fresh Water	Fluid Density:	8.34 lb/gal
	Fluid Volume:	20.0 bbls
<hr/>		
Plug 1 CLASS A COMMON	Slurry Density:	15.80 lb/gal
	Slurry Yield:	1.18 ft <sup>3</sup> /sk
	Mixing Water	5.20 gal/sk
	Total sacks	12 sks
	Total barrels	2.5 bbls
<hr/>		
Displacement Fresh Water	Fluid Density:	8.34 lb/gal
	Fluid Volume:	11.3 bbls
<hr/>		
Plug 2 Class A Common / Dump Bailer	Slurry Density:	15.80 lb/gal
	Slurry Yield:	1.18 ft <sup>3</sup> /sk
	Mixing Water	5.20 gal/sk
	Total sacks	4 sks
	Total barrels	0.8 bbls
<hr/>		
Load Hole	Fluid Density:	8.34 lb/gal
	Fluid Volume:	10.0 bbls
<hr/>		
Plug 3 CLASS A COMMON	Slurry Density:	15.80 lb/gal
	Slurry Yield:	1.18 ft <sup>3</sup> /sk
	Mixing Water	5.20 gal/sk
	Total sacks	10 sks
	Total barrels	2.1 bbls
<hr/>		
	Fluid Density:	8.34 lb/gal
	Fluid Volume:	6.3 bbls
<hr/>		
Load Hole	Fluid Density:	8.34 lb/gal
	Fluid Volume:	10.0 bbls
<hr/>		
Plug 4 CLASS A COMMON	Slurry Density:	15.80 lb/gal
	Slurry Yield:	1.18 ft <sup>3</sup> /sk
	Mixing Water	5.20 gal/sk
	Total sacks	175 sks
	Total barrels	36.8 bbls
<hr/>		
Clear Line Fresh Water	Fluid Density:	8.33 lb/gal
	Fluid Volume:	0.5 bbls
<hr/>		





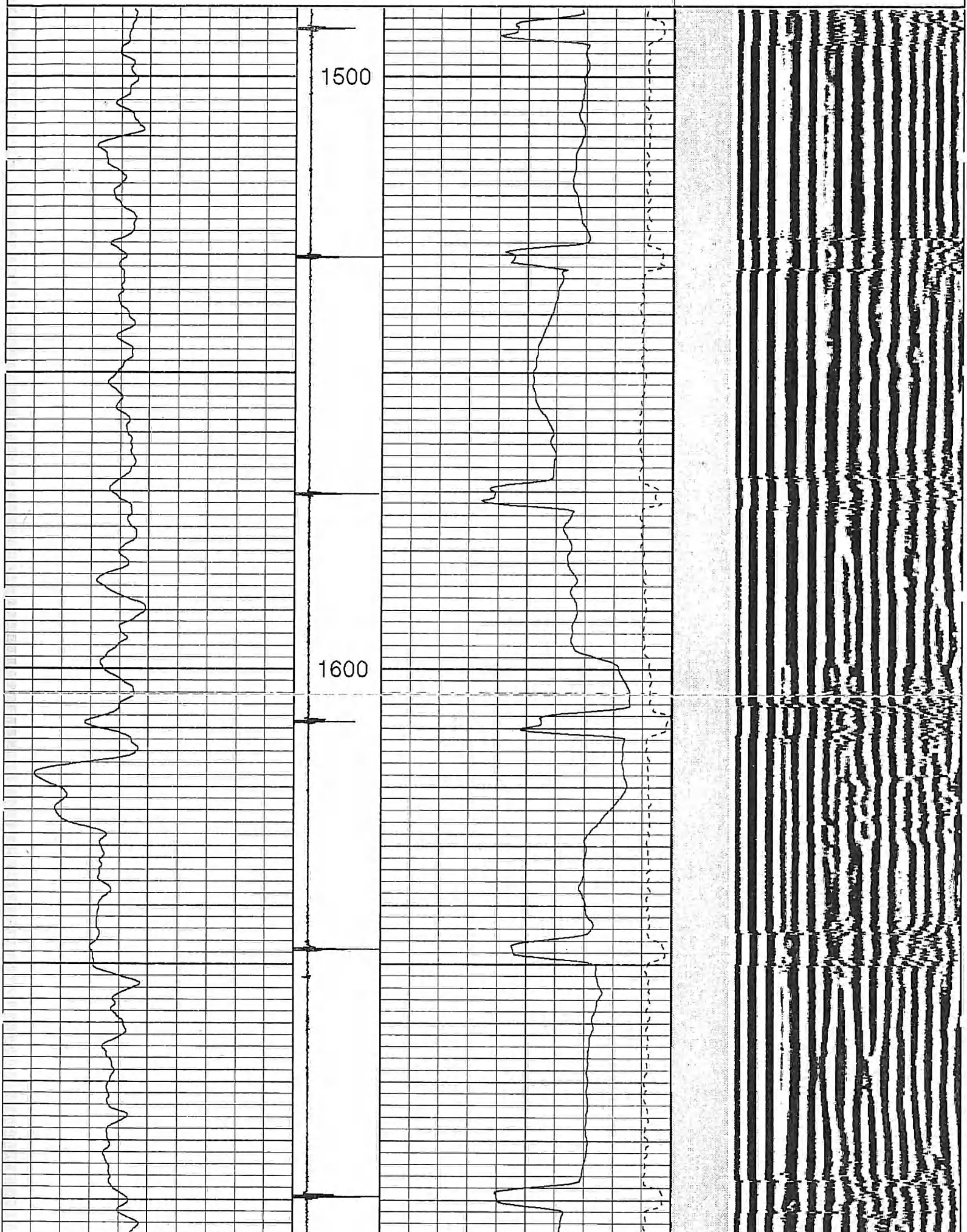
100 and 500

58  
5 Shots  
??

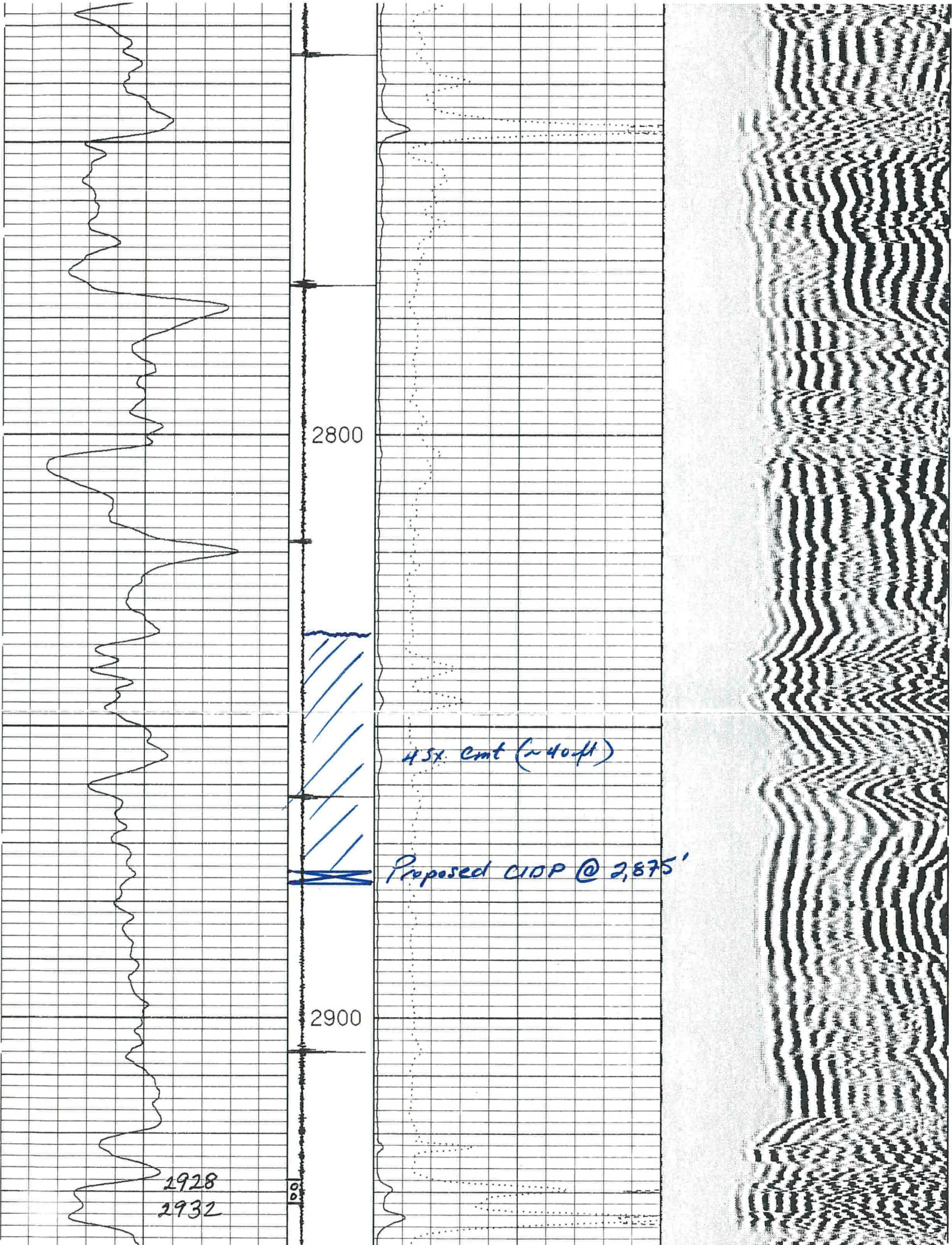
8-58 Shot @ 1731'

8/18 1987









2800

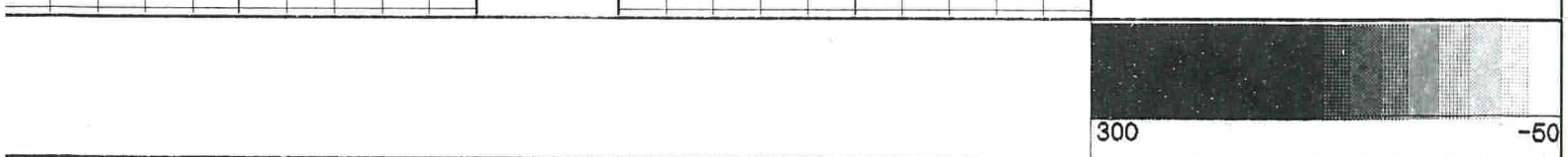
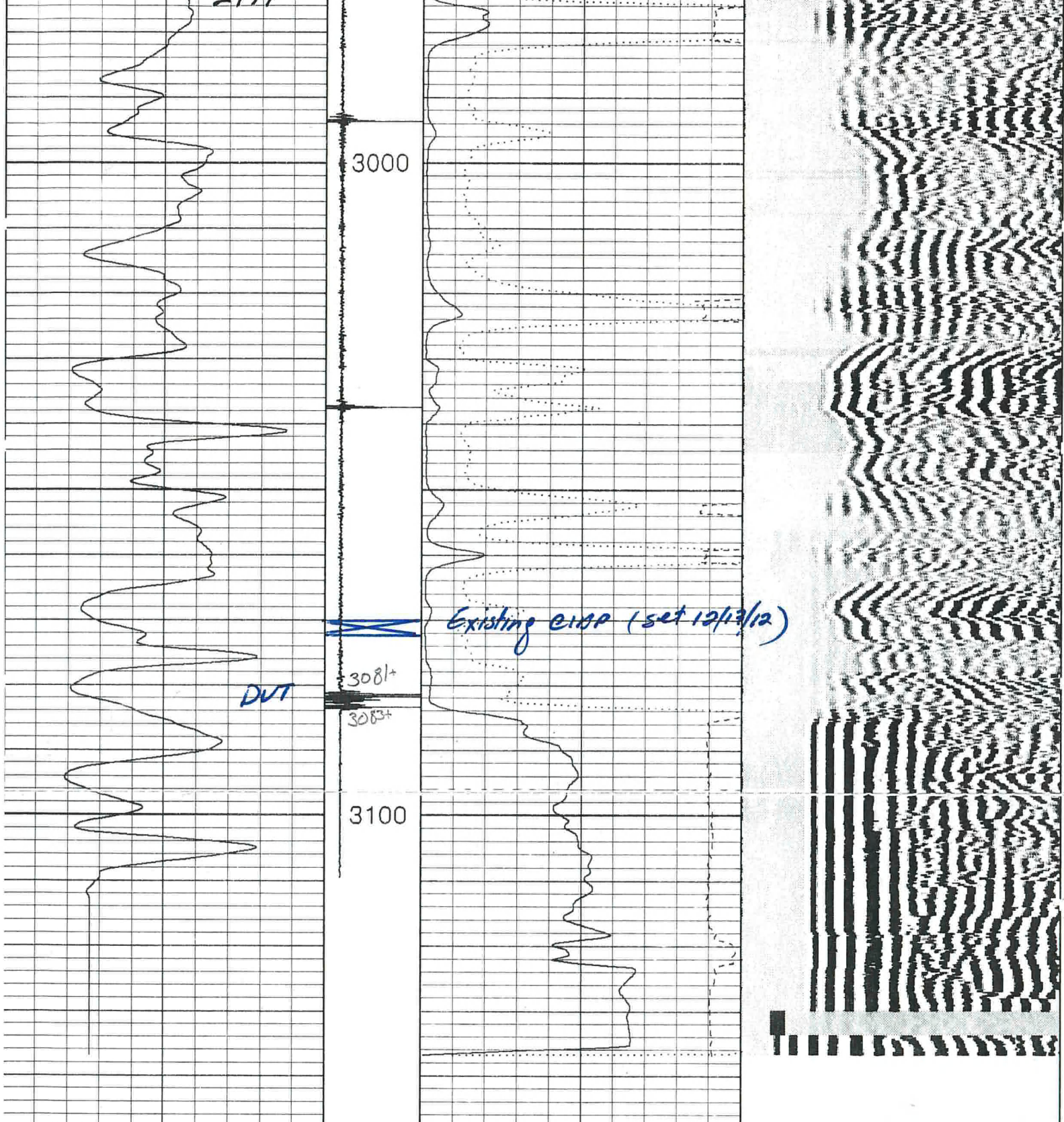
45% cmt (~40ft)

Proposed CIOP @ 2875'

2900

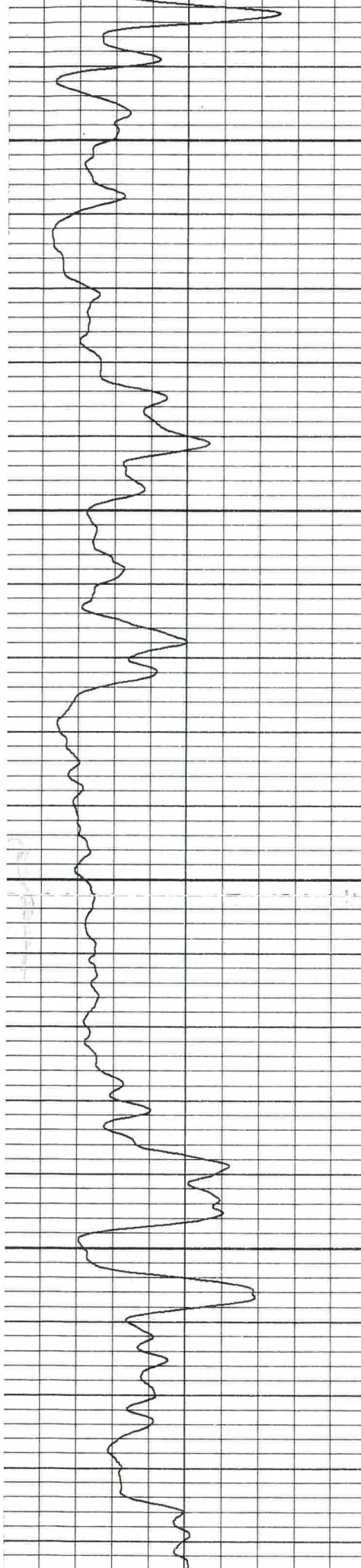
1928  
1932





GAMMA GAMMA API		1:240 Ft.	AMP PIPE AMP 0 ..... 10		MSG 4-uSEC	
0	150	CCL (S904)	PIPE AMPL 0 ..... 100		220	1100
	2000		TT US		100	



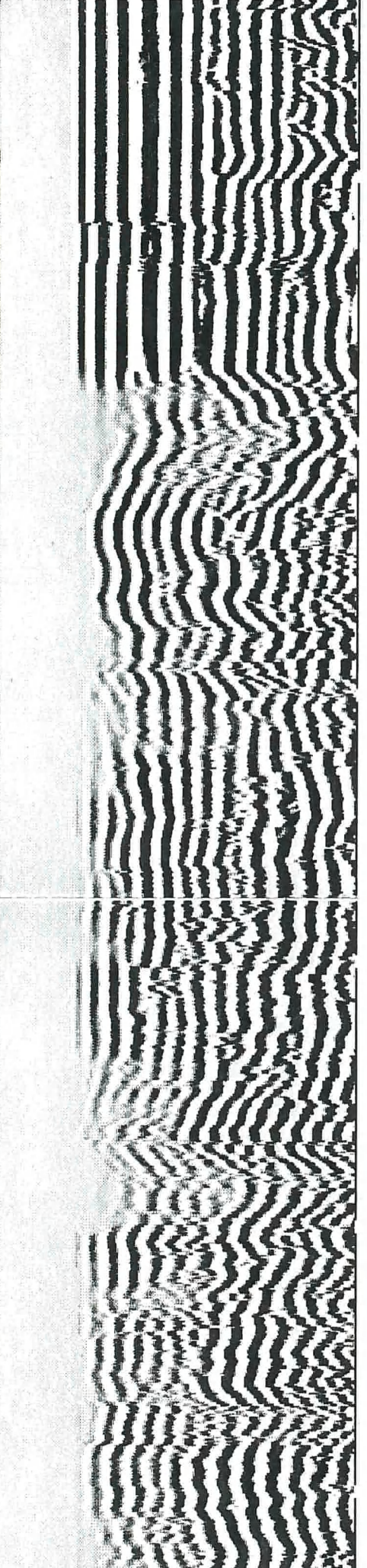
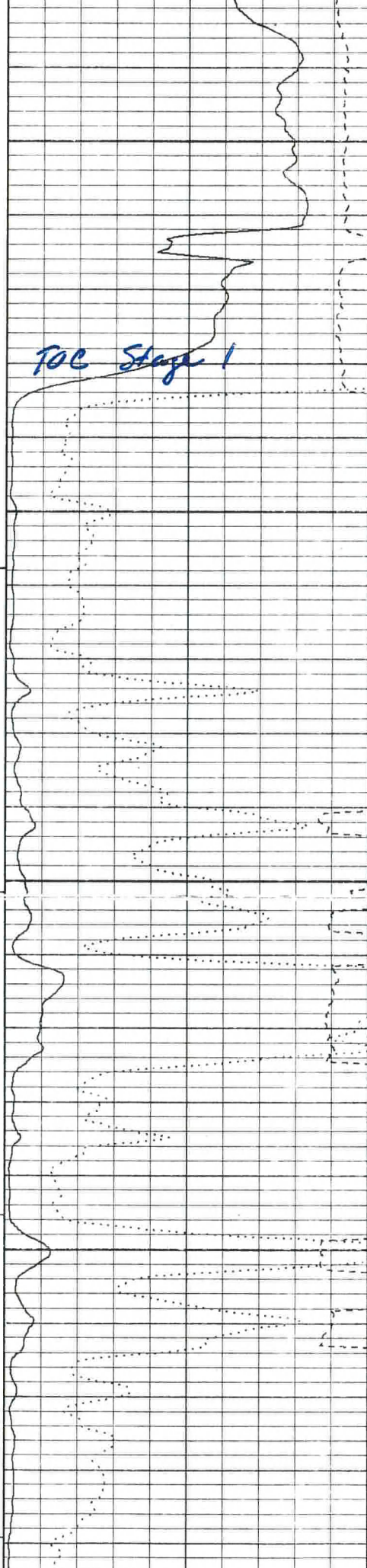


4000

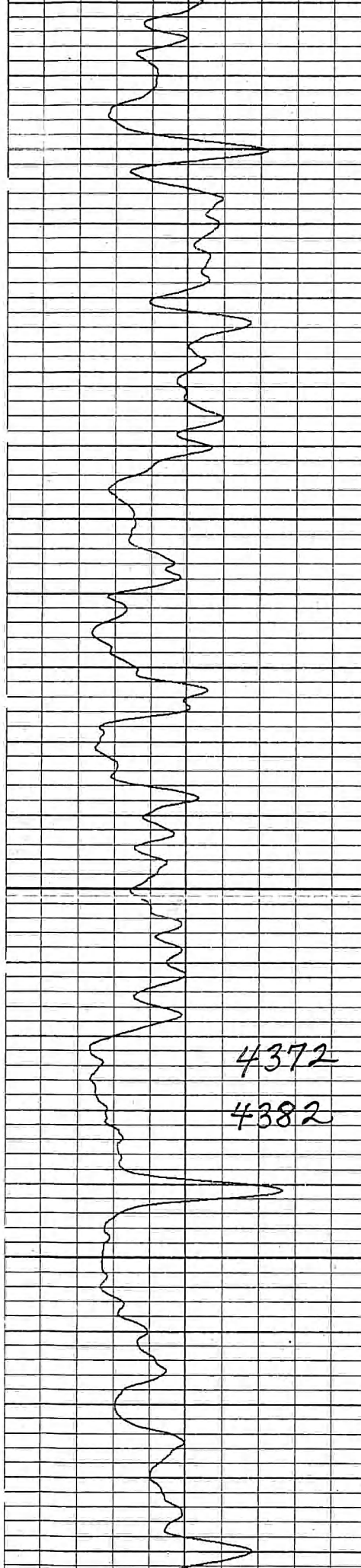
*TOC Stage 1*

4100

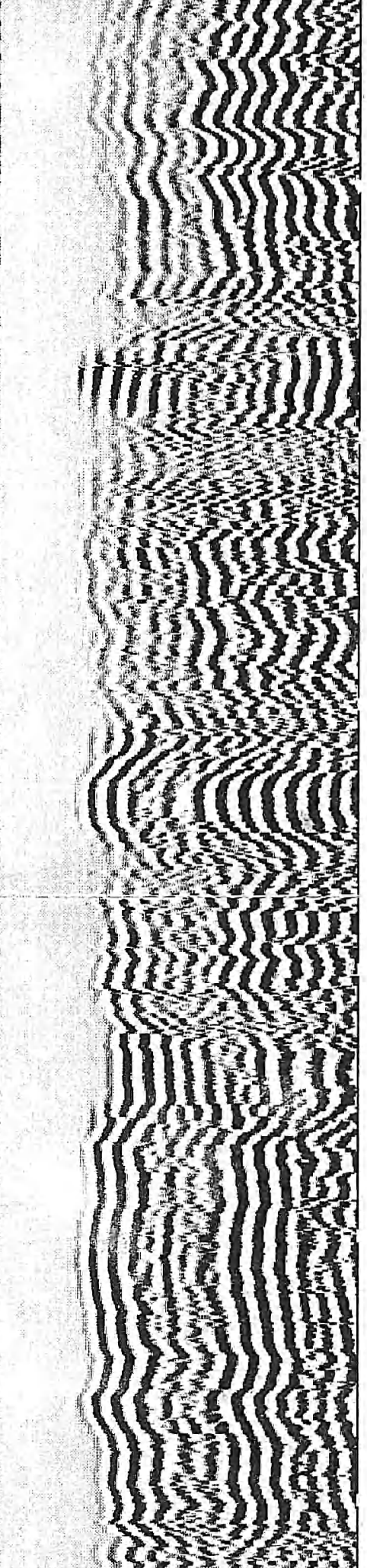
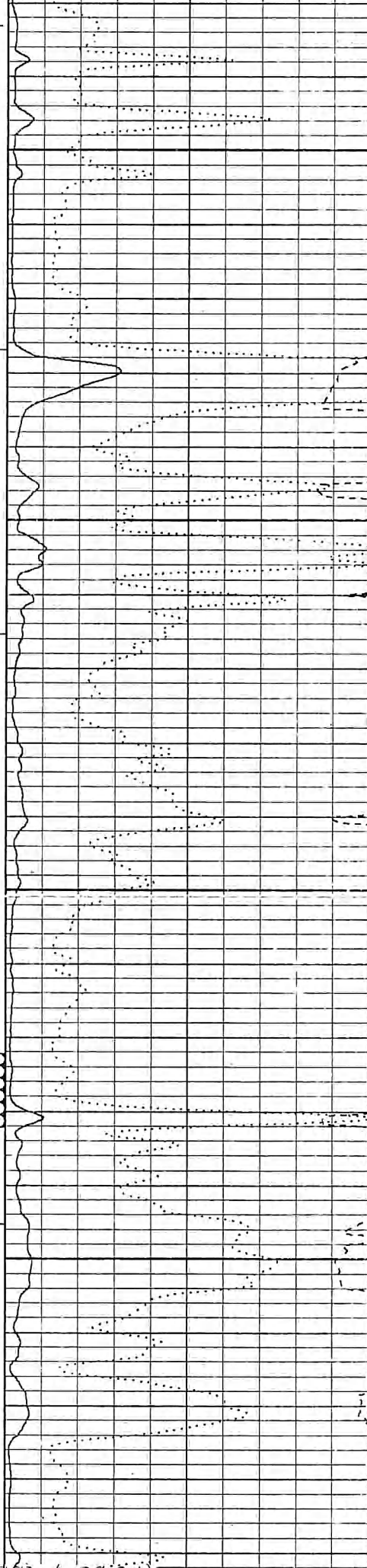
4189'







4233  
4277  
4300  
4315F  
4355+  
4372  
4382  
4395  
4400



October 30, 2014

Jim McKinney  
McElvain Energy, Inc.  
1050 17TH ST STE 2500  
DENVER, CO 80265-2080

Re: Plugging Application  
API 15-187-20913-00-00  
HERRICK 1-927  
SE/4 Sec.27-30S-40W  
Stanton County, Kansas

Dear Jim McKinney:

The Conservation Division has received your Well Plugging Application (CP-1).

**Under K.A.R. 82-3-113(b)(2), you must notify DISTRICT 1 of your proposed plugging plan at least 5 days before plugging the well.** DISTRICT 1's phone number is (620) 225-8888. Failure to notify DISTRICT 1, or failure to file a Well Plugging Record (CP-4) after the well is plugged will result in a penalty recommendation.

**Under K.A.R. 82-3-600, you must file an Application for Surface Pit (CDP-1) if you wish to use a workover pit while plugging the well.** Failure to timely file a CDP-1, failure to timely remove fluids, or failure to timely file Closure of Surface Pit (CDP-4) or Waste Transfer (CDP-5) forms will result in a penalty recommendation.

This receipt does NOT constitute authorization to plug this well if you do not otherwise have the legal right to do so.

This receipt is VOID after April 30, 2015. If the well is not plugged by then, you will have to submit a new CP-1 if you wish to plug the well.

**The April 30, 2015 deadline does NOT override any compliance deadline given to you by Legal, District, or other Commission Staff.** Failure to comply with any given deadline will still result in the Commission assessing penalties, or taking other legal action.

Sincerely,  
Production Department Supervisor

cc: DISTRICT 1