



RE Cole A #8  
 API #30-025-22109  
 2130' FSL & 2130' FWL  
 S16, T22S, R37E  
 Penrose Skelly/Eunice San Andres Southwest  
 Lea County, New Mexico

Revision 2 6/13/2005

## PROCEDURE

**Use 8.6 ppg brine water.**

1. **Complete if applicable:** Displace flowline w/ fresh water. Have Field Specialist close valve at header. Pressure test line according to type. All polypipe (SDR7 and SDR11) will be tested to 100 psi. All steel lines will be tested to 500 psi. If a leak is found, contact Donnie Ives for repair/replacement. If tests good, bleed off pressure and open valve at header. Document this process in the morning report.
2. Repair well location & lease road. Dig out around cut off csg strings. Weld on new csg and tubing heads.
3. MIRU Key PU & Smith RU. Install BOP's & EPA equipment. Test BOP when possible. PU 6-1/8" bit, DC's, and 2-7/8" WS. Establish reverse circulation & drill out 10 sx cement plug at surface. Also drill out plug from 1100'-1200' and plug from 3650'-3750'. RIH & tag PBTD (approximately 5298'). Circulate hole clean. Test csg to 500#. POOH & LD bit & DC's.
4. MIRU WL. Run CBL/CCL log from 5000' to 100' above cement top tied back to Welex's Acoustic Velocity Log dated 5/27/67. Fax log to Midland for cement quality inspection before perforating. If cement bond does not look adequate, discuss squeezing options with engineer.
5. Perforate the following intervals with 3-1/8" slick guns loaded w/ 4 JSPF, 120 degree phasing and 23 gram charges tied back to Welex's Acoustic Velocity Log dated 5/27/67. RD Baker Atlas WL.

Top Perf	Bottom Perf	Net Feet	Total Holes
3660	3668	8	32
3687	3692	5	20
3714	3721	7	28
3732	3740	8	32
3748	3753	5	20
3761	3764	3	12
3771	3774	3	12
3784	3787	3	12
3794	3798	4	16
3818	3823	5	20
3832	3840	8	32
3844	3850	6	24
3869	3878	9	36
3886	3890	4	16
3908	3913	5	20



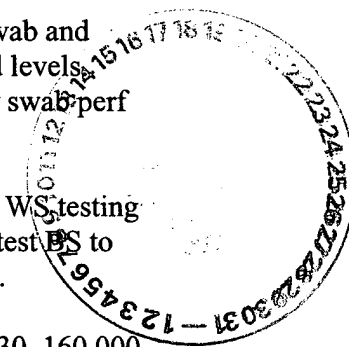
6. RIH w/ 7" PPI packer w/ SCV and 10' element spacing. Test 2-7/8" WS to 4500 psi while RIH. Test PPI packer in blank pipe. Mark settings.
7. MIRU DS. Acidize perms w/ 3,000 gals 15% NEFE HCl acid at a max rate of 1/2 BPM & 4000 psi surface pressure as follows:

Perfs	Acid Volume	Max Rate	PPI Setting
3660-3668	200 gals	1/2 bpm	3659-3669
3687-3692	200 gals	1/2 bpm	3685-3695
3714-3721	200 gals	1/2 bpm	3713-3723
3732-3740	200 gals	1/2 bpm	3731-3741
3748-3753	200 gals	1/2 bpm	3746-3756
3761-3764	200 gals	1/2 bpm	3757-3767
3771-3774	200 gals	1/2 bpm	3768-3778
3784-3787	200 gals	1/2 bpm	3780-3790
3794-3798	200 gals	1/2 bpm	3791-3801
3818-3823	200 gals	1/2 bpm	3815-3825
3832-3840	200 gals	1/2 bpm	3831-3841
3844-3850	200 gals	1/2 bpm	3842-3852
3869-3878	200 gals	1/2 bpm	3868.5-3878.5
3886-3890	200 gals	1/2 bpm	3883-3893
3908-3913	201 gals	1/2 bpm	3906-3916

Displace acid w/ 8.6# brine to top perf. Record ISIP, 5, and 10 SIP. RD DS. **If communication occurs during treatment, attempt to put away stage without exceeding 1000 psi csg pressure. If stage can not be completed move to next and combine stage volumes.**

8. SI well for 2 hrs for acid to spend. Release PPI & PU above top perf. RU swab and swab back load before SION if possible. Record volumes, pressures, & fluid levels. Discuss results with Engineering. If excessive water is produced, selectively swab perf intervals as discussed w/ engineer.
9. POOH w/ PPI and LD. RIH w/ 7" frac pkr, on/off tool and profile on 3-1/2" WS testing to 7500 psi while RIH. Set packer @ +/- 3550'. Install frac head. Pressure test BS to 750 psi. Hold 700 psi on BS during frac job and observe for communication.
10. MIRU DS. Frac well down 3-1/2" tubing at **40 BPM** w/ 84,000 gals of YF130, 160,000 lbs. 16/30 mesh Jordan Sand, and 30,000 lbs **resin-coated** 16/30 mesh CR4000 proppant. Max treating pressure 8000 psi. **Tag Frac using 3 isotopes (1<sup>st</sup> in .5 ppg pad stage, 2<sup>nd</sup> in body of sand, 3<sup>rd</sup> in resin stage).** Pump job as follows:

Pump 2,000 gals 2% KCl water containing 110 gals Baker SCW-358 Scale Inhibitor  
Pump 1,000 gal 2% KCl water spacer  
Pump 14,000 gals YF130 pad containing 5 GPT J451 Fluid Loss Additive  
Pump 14,000 gals YF130 pad containing 0.5 PPG 16/30 mesh Jordan Sand & 5 GPT J451 Fluid Loss Additive  
Pump 12,000 gals YF130 containing 1.5 PPG 16/30 mesh Jordan Sand  
Pump 12,000 gals YF130 containing 2.5 PPG 16/30 mesh Jordan Sand

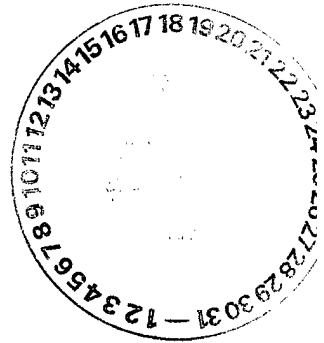


Pump 12,000 gals YF130 containing 3.5 PPG 16/30 mesh Jordan Sand  
Pump 14,000 gals YF130 containing 4.5 PPG 16/30 mesh Jordan Sand  
Pump 6,000 gals YF130 containing 5 PPG resin-coated 16/30 mesh CR1630 proppant

Flush to top perf. **Do not overflush.** SI well and record ISIP, 5, 10, and 15 minute SIP.  
RD DS. SION. RD DS.

11. Open well and bleed off any pressure. Release packer and POOH. RIH w/ 6-1/8" bit to 4100'. POOH & LD bit. RIH w/ 7" pkr w/ on/off tool and profile. Set pkr @ +/- 3600'. RU swab and swab well checking for sand inflow. Discuss results w/ engineer. RD swab.
12. MIRU Logging Truck and conduct after Frac Log.
13. Release pkr and POOH. RIH w/ 6-1/8" bit on WS & tag for fill. POOH & LD bit & WS
14. RIH w/ 2-7/8" production tbg & hang off as per ALS recommendation. NDBOP NUWH.
15. RD Key PU & Smith RR. Turn well over to production. Contact Lease Operator and inform them that the well is ready for operation.

Engineer - Keith Lopez  
432-687-7120 Office  
432-631-3281 Cell  
303-949-3021 Home



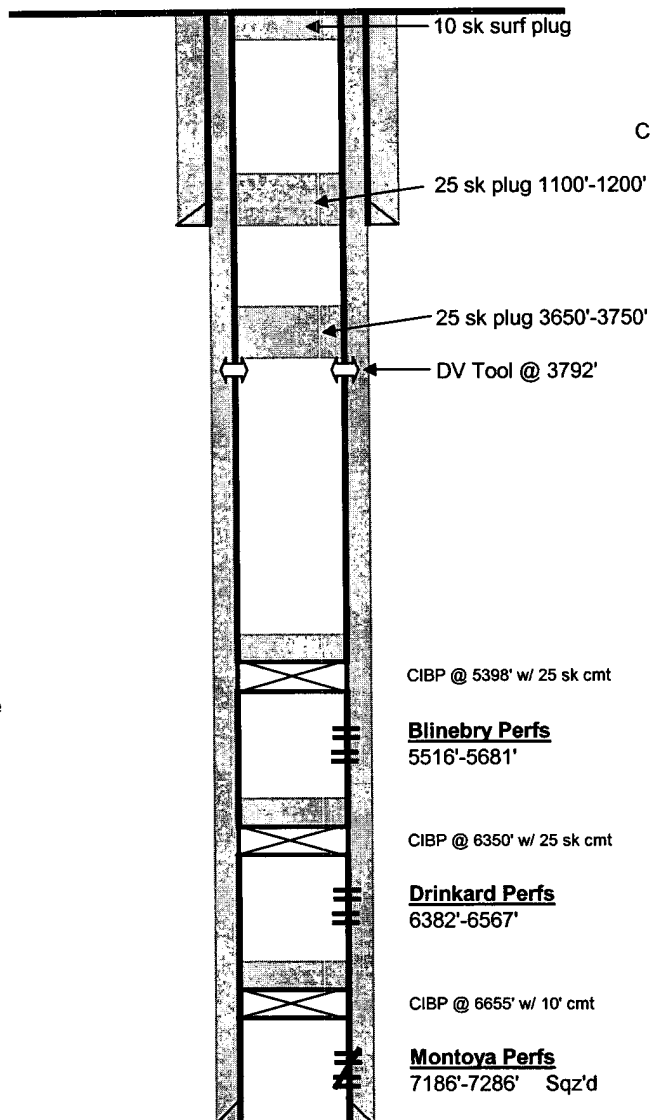
## CURRENT WELL DATA SHEET

<b>Field:</b> _____	<b>Well Name:</b> RE Cole A #8	<b>Lease Type:</b> State
<b>Location:</b> 2130' FSL & 2130' FWL	<b>Sec:</b> 16 <b>Township:</b> 22S	<b>Range:</b> 37E
<b>County:</b> Lea <b>St:</b> New Mexico	<b>Refno:</b> FG0268 <b>API:</b> 30-025-22109	<b>Cost Center:</b> _____
<b>Current Status:</b> PA'd	<b>Anchor Test Date:</b> _____	
<b>Current Producing Formation(s):</b>	PA'd	
<b>Initial Producing Formation(s):</b>	Montoya/Silurian	

### Surface Csg.

Size: 9-5/8"  
 Wt.: 36#  
 Set @: 1159'  
 Sxs cmt: 425  
 Circ: Yes  
 TOC: Surface  
 Hole Size: 12-1/4"

KB: 3404'  
 DF: \_\_\_\_\_  
 GL: 3392'  
 Spud Date: 5/5/1967  
 Compl. Date: \_\_\_\_\_



### Production Csg.

Size: 7"  
 Wt.: 23# & 26#  
 Set @: 7302'  
 Sxs Cmt: \_\_\_\_\_  
 Circ: Circ 2nd stage  
 TOC: Surface  
 Hole Size: 8 3/4"

COTD: \_\_\_\_\_  
 PBDT: \_\_\_\_\_  
 TD: 7302'



**Remarks:** \_\_\_\_\_

Prepared by: LOPK  
 Date: 3/22/2005  
 Updated by: \_\_\_\_\_

## PROPOSED WELL DATA SHEET

Field: <u>Eunice San Andres SW/Penrose</u>	Well Name: <u>RE Cole A #8</u>	Lease Type: <u>State</u>
Location: <u>2130' FSL &amp; 2130' FWL</u>	Sec: <u>16</u> Township: <u>22S</u>	Range: <u>37E</u>
County: <u>Lea</u> St: <u>New Mexico</u>	Refno: <u>FG0268</u> API: <u>30-025-22109</u>	Cost Center: <u>LB10100/U49</u>
Current Status: <u>PR</u>	Anchor Test Date: _____	
Current Producing Formation(s): <u>San Andres/Grayburg</u>		
Initial Producing Formation(s): <u>Montoya/Silurian</u>		

### Surface Csg.

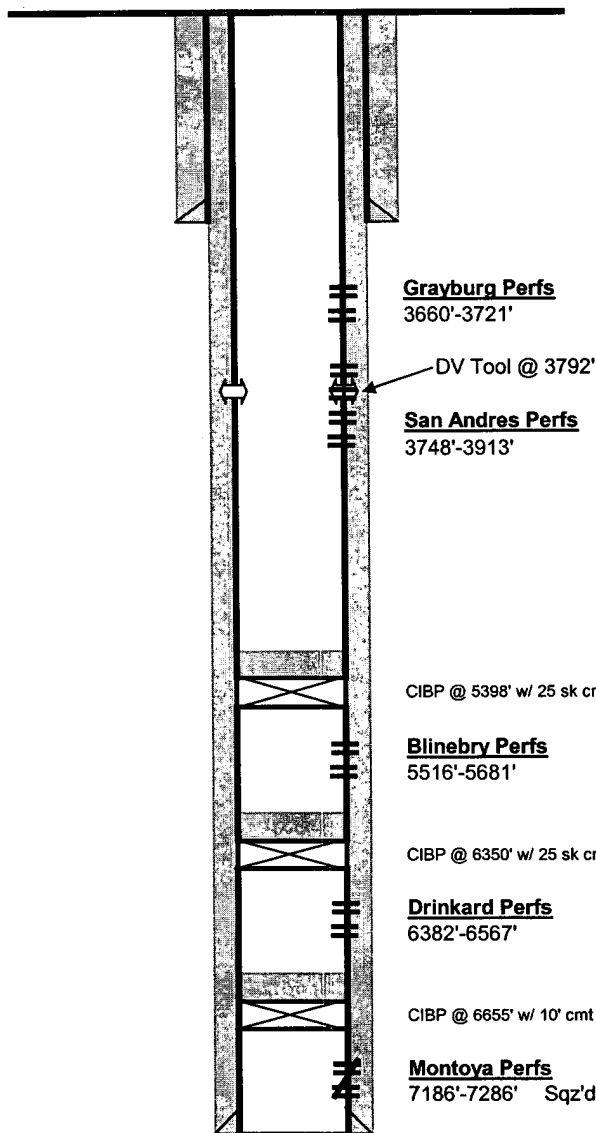
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 Set @: 1159'  
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 Circ: Yes  
 TOC: Surface  
 Hole Size: 12-1/4"

KB: 3404'  
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 GL: 3392'  
 Spud Date: 5/5/1967  
 Compl. Date: \_\_\_\_\_

### Production Csg.

Size: 7"  
 Wt.: 23# & 26#  
 Set @: 7302'  
 Sxs Cmt: \_\_\_\_\_  
 Circ: Circ 2nd stage  
 TOC: Surface  
 Hole Size: 8 3/4"

COTD: \_\_\_\_\_  
 PBTD: 5298'  
 TD: 7302'



**Grayburg Perfs**  
3660'-3721'

DV Tool @ 3792'

**San Andres Perfs**  
3748'-3913'

CIBP @ 5398' w/ 25 sk cmt

**Blinbry Perfs**  
5516'-5681'

CIBP @ 6350' w/ 25 sk cmt

**Drinkard Perfs**  
6382'-6567'

CIBP @ 6655' w/ 10' cmt

**Montoya Perfs**  
7186'-7286' Sqz'd



Remarks: \_\_\_\_\_

Prepared by: LOPK  
 Date: 5/17/2005  
 Updated by: \_\_\_\_\_

DISTRICT I

P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II

P.O. Box Drawer DD, Artesia, NM 88211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

P.O. Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico

## Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 10, 1999

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copy

Fee Lease - 3 Copy

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-22109	<sup>2</sup> Pool Code 50350	<sup>3</sup> Pool Name PENROSE SKELLY GRAYBURG
<sup>4</sup> Property Code 2597	<sup>5</sup> Property Name R.E. COLE A	<sup>6</sup> Well No. 8
<sup>7</sup> OGRID Number 4323	<sup>8</sup> Operator Name CHEVRON USA INC	<sup>9</sup> Elevation 3392'

<sup>10</sup> Surface Location

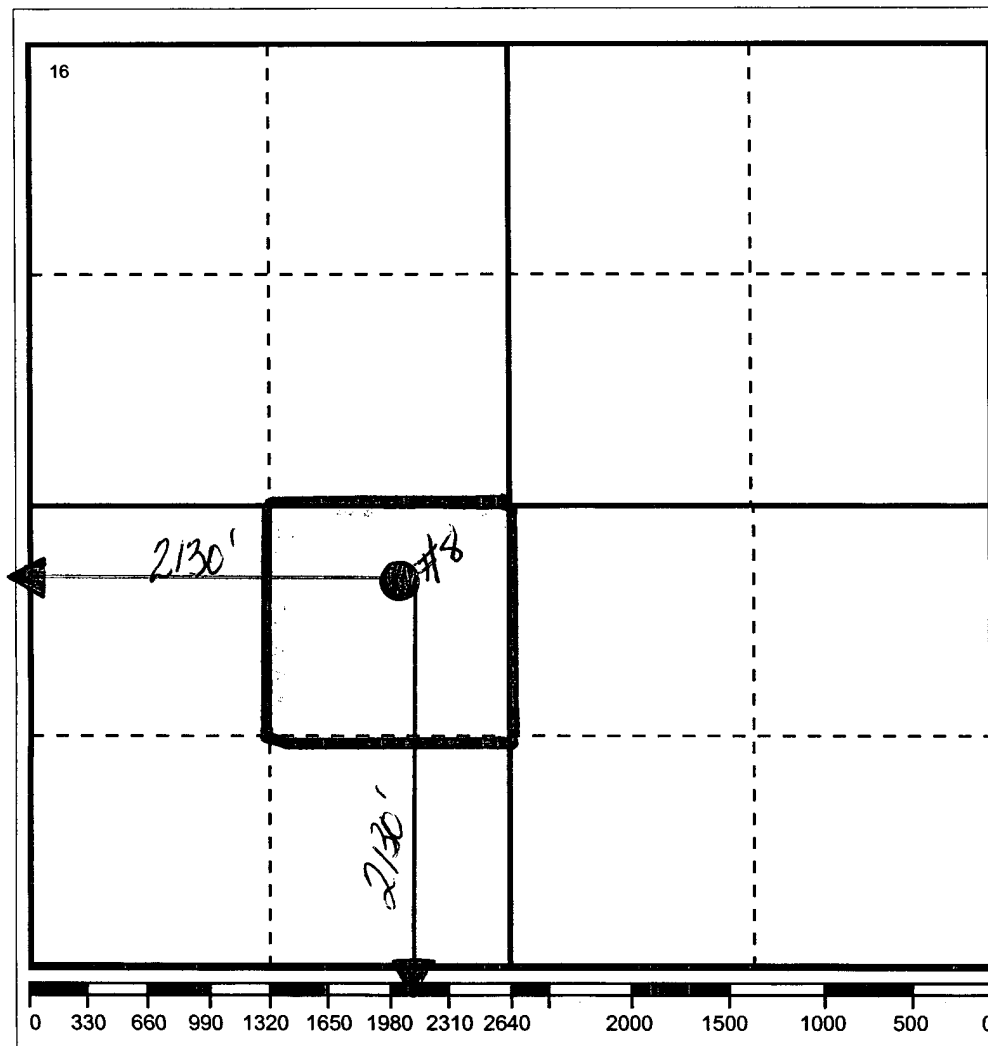
UI or lot no	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County
K	16	22-S	37-E		2130'	SOUTH	2130'	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UI or lot no.	Section	Township	Range	Lot.Idn	Feet From The	North/South Line	Feet From The	East/West Line	County

<sup>12</sup> Dedicated Acre 40	<sup>13</sup> Joint or Infill No	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
------------------------------------	-------------------------------------	----------------------------------	-------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature

Printed Name

Denise Pinkerton

Position

Regulatory Specialist

Date

6/15/2005

<sup>18</sup> SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Signature & Seal of  
Professional Surveyor

Certificate No.

## DISTRICT I

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<sup>4</sup> Property Code 2597	<sup>5</sup> Property Name R.E. COLE A	<sup>6</sup> Well No. 8
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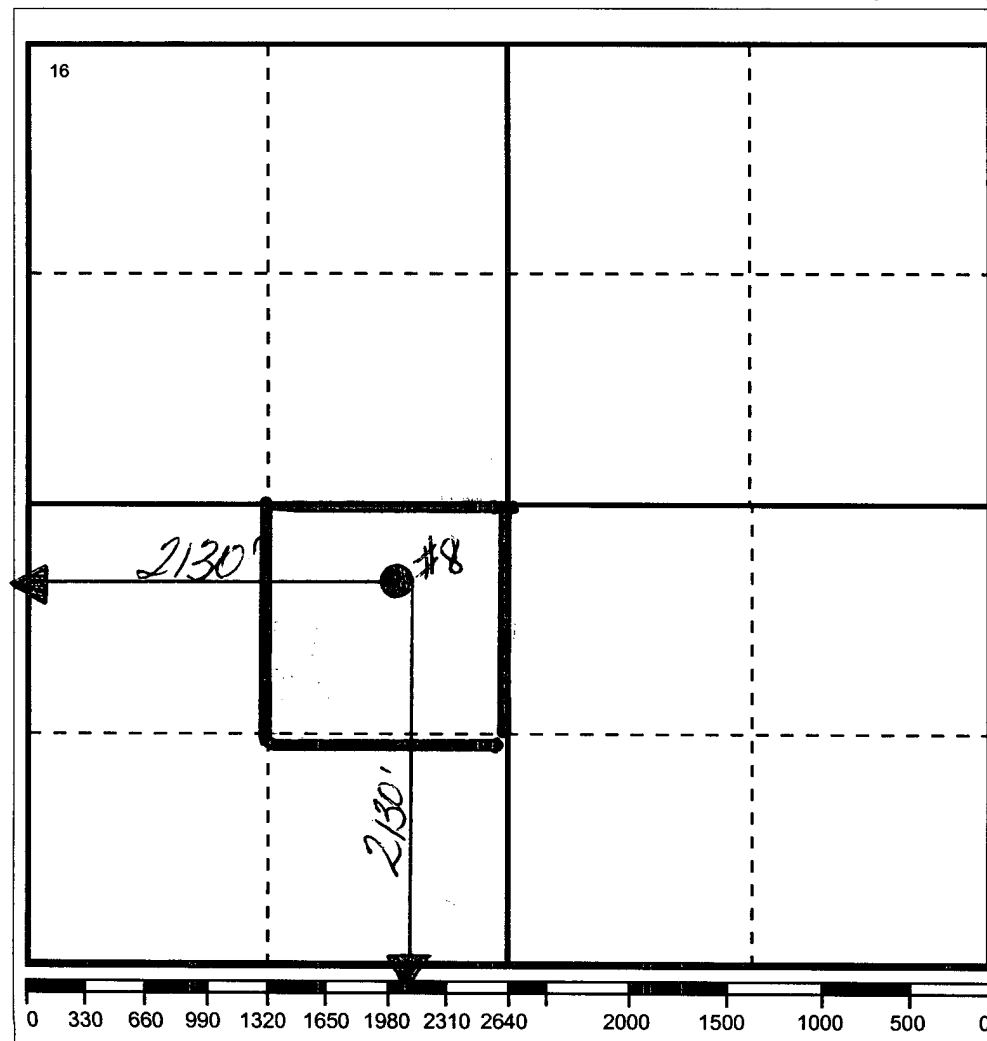
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