



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

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

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

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

Contact Person: \_\_\_\_\_

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

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

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 #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1088907

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Reeder Operating LLC
Well Name	ROBERT D. GRAY 1-20H
Doc ID	1088907

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
6	6325 - 27, 6200-02, 6075-77, 5925 - 27,5785-87	See attached Schematic for perfs	
6	7000-02, 6885-87, 6770-72, 6655-57, 6530-32		
6	7570-72, 7455-57, 7340-42, 7225-27, 7110-12		
6	8150-52, 8035-37, 7912-10, 7795-97, 7670-72		
6	8750-52, 8635-37, 8510-12, 8395-97, 8270-72		
6	9210-12, 9130-32, 9050-52, 8968-70, 8870-72		
	9750-52, 9685- 87,9665-67,9440-42, 9325-27		

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

August 27, 2012

Gary Wente  
Reeder Operating LLC  
4925 GREENVILLE AVE., STE 1400  
DALLAS, TX 75206

Re: ACO1  
API 15-033-21603-01-00  
ROBERT D. GRAY 1-20H  
SW/4 Sec.20-32S-17W  
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Gary Wente





Customer <b>Reeder Operating, LLC.</b>		Lease No.	Date <b>11-15-11</b>	
Lease <b>Robert D. Gray</b>		Well # <b>1-20H</b>		
Field Order # <b>5125</b>	Station <b>Pratt, Kansas</b>	Casing <b>7" 26 Lb.</b>	Depth <b>5,722 Feet</b>	County <b>Comanche</b>
Type Job <b>C.N.W. - Intermediate</b>	Formation	Legal Description <b>20-325-17W</b>		

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size <b>7" 26 Lb./Ft.</b>	Tubing Size	Shots/Ft	<b>30 sacks</b>	ADD	<b>60/40 Poz with 28 Gal. 58 Friction Reducer,</b>	DATE	PRESS	ISIP
Depth <b>5,722 Feet</b>	Depth	From	<b>.258</b>	Defoamer	<b>14 Lb./Gal., 6.37 Gal./stk., 1.35 cu. Ft./stk.</b>			<b>5 Min.</b>
Volume <b>218.5 Bbl.</b>	Volume	From	<b>150 sacks</b>	AA-2	<b>with 88 Fluid Loss, 58 Friction Reducer, 258 Defoamer,</b>			<b>10 Min.</b>
Max Press. <b>2900 P.S.I.</b>	Max Press.	From	<b>108 Sacks</b>	alt., .25	<b>Lb./stk. Cellflame</b>			<b>15 Min.</b>
Well Connection <b>Plug Container</b>	Annulus Vol.	From		To	<b>15 Lb./Gal., 6.52 Gal./stk., 1.43 CU. Ft./stk.</b>	HHP Used		Annulus Pressure
Plug Depth <b>5,680 Feet</b>	Packer Depth	From		To	<b>Flush 217 Bbl. Fresh Water</b>	Gas Volume		Total Load

Customer Representative <b>Bob Graves</b>	Station Manager <b>David Scott</b>	Treater <b>Clarence R. Messick</b>
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Service Units	<b>37,216</b>	<b>33,708</b>	<b>20,920</b>	<b>19,826</b>	<b>19,860</b>				
Driver Names	<b>Messick</b>	<b>Melson</b>	<b>McGraw</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>8:30</b>					<b>Truck on location and hold safety meeting.</b>
					<b>Atlas Drilling start to run Float Shoe, Shoe Joint, Float Collar, 136 Joints new 26 Lb./Ft. 7" casing.</b>
<b>2:50</b>					<b>Casing in well. Circulate for 1 Hour.</b>
<b>4:11</b>	<b>3,000</b>				<b>Shut in well. Pressure Test. Open Well.</b>
<b>4:13</b>	<b>400</b>			<b>6</b>	<b>Start Fresh water Pre-Flush.</b>
			<b>20</b>	<b>6</b>	<b>Start 500 Gallons Mud Flush</b>
			<b>32</b>	<b>6</b>	<b>Start Fresh water Spacer.</b>
<b>4:20</b>			<b>35</b>	<b>5</b>	<b>Start mixing 30 sacks 60/40 Poz Cement.</b>
	<b>400</b>		<b>42</b>	<b>5</b>	<b>Start mixing 150 sacks AA-2 cement.</b>
	<b>-0-</b>		<b>80</b>		<b>Stop pumping. Shut in well. Wash pump and lines. Release Top Rubber Plug. Open Well.</b>
<b>4:38</b>	<b>300</b>			<b>6.5</b>	<b>Start Fresh water Displacement.</b>
			<b>170</b>	<b>5</b>	<b>Start to lift cement.</b>
<b>5:11</b>	<b>1,100</b>		<b>217</b>		<b>Plug down.</b>
					<b>Pressure up.</b>
					<b>Release pressure.</b>
					<b>Float Collar held.</b>
					<b>Wash up pump truck.</b>
<b>6:00</b>					<b>Job Complete.</b>
					<b>Thank You.</b>
					<b>Clarence, Joe, Mike</b>



Customer <b>Reader Operating, LLC.</b>	Lease No.	Date <b>12-3-11</b>
Lease <b>Robert D. Gray</b>	Well # <b>1-20H T.D.</b>	
Field Order # <b>4963</b>	Station <b>Pratt, Kansas</b>	Casing <b>4 1/2 11.6 Lb.</b>
Type Job <b>C.N.W. - Longstring</b>	Formation <b>9933 Feet</b>	County <b>Comanche</b>
		State <b>Kansas</b>
		Legal Description <b>20-325-17W</b>

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size <b>4 1/2 11.6 Lb.</b>	Tubing Size <b>3 1/2 Drill Pipe</b>	Shots/Ft				RATE	PRESS	ISIP
Depth	Depth	From	To					
Volume	Volume	From	To					
Max Press	Max Press	From	To					
Well Connection	Annulus Vol.	From	To					
Plug Depth	Packer Depth	From	To					

**50 sacks 60/40 Poz cement for scavenger**  
**13 Lb./Gal., 8.52 Gal./ft., 1.64 CU. FT./ft.**  
**355 sacks Class "H" cement with 10% Salt, 10 Min.**  
**.258 Defoamer, .18 WCA-1**  
**15.6 Lb./Gal., 5.43 Gal./ft., 1.24 CU. FT./ft.**  
**1.24 CU. FT./ft.**

Customer Representative <b>Bob Graves</b>	Station Manager <b>David Scott</b>	Treater <b>Clarence R. Messick</b>
Service Units <b>37,216</b>	<b>19,903</b>	<b>19,905</b>
Driver Names <b>Messick</b>	<b>Mattal</b>	<b>McGraw</b>
		<b>Phye</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:00					Trucks on location and hold safety meeting.
2:15					Liner and Drill Pipe in well. Pump on well with rig pump for 1 hour (No Circulation) Hook up to Weatherford's plug container.
4:25	4000				Shut in well. Pressure Test. Open Well.
	400			5	Start Fresh water Pre-Flush.
	)		50	5	Start Fresh Mud flush.
	)		62	5	Start Fresh water spacer.
5:00			67	5	Start mixing 50 sacks 60/40 poz cement.
	400		82	5	start mixing 355 sacks class "H" cement.
	0-		160		Stop pumping. Shut in well. Wash pump and lines. Release Drill Pipe plug. Open Well.
5:39	100			5	start 2% HCL Displacement.
	1200		35	5	Land Drill pipe plug on liner plug. Start liner Displacement
6:03	400		106		Plugdown. Pressure up.
	900				Pressure up.
					Release pressure. Insert held.
6:10	1500, 250				Pressure up and Burst Disk. Pump 10 Bbl. Fresh water. Pull Drill pipe up out of liner. Hook up well to rig pump to circulate well clean. Wash up pump truck.



August 27, 2012

Gary Wente  
Reeder Operating LLC  
4925 GREENVILLE AVE., STE 1400  
DALLAS, TX 75206

Re: ACO-1  
API 15-033-21603-01-00  
ROBERT D. GRAY 1-20H  
SW/4 Sec.20-32S-17W  
Comanche County, Kansas

Dear Gary Wente:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 11/1/2011 and the ACO-1 was received on August 27, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



Robert Gray 1-20H LAS

#####  
 # File generated by DigiDrill LAS Builder #  
 #####

~Version Information

VERS. 2.0 :LAS Version 2.0  
 WRAP. NO :One line per depth step

#MNE	.UNIT	DATA	INFORMATION
~Well Information			
STRT	.FT	3852.00	:Start Depth
STOP	.FT	9786.00	:Stop Depth
STEP	.FT	0.50	:Step Value
NULL	.	-999.25	:NULL Value
DATE	.	12/1/2011	:Date
SRVC	.	Calmena Energy Services	:Service Company
COMP	.	Reeder Energy	:Operating Company
WELL	.	Robert Gray 1-20H	:well
FLD	.	Comanche County	:Field
LOC	.	Comanche County	:Location
CNTY	.	Comanche	:County
STAT	.	Kansas	:State
CTRY	.	USA	:Country
UWI	.	150332160301	:UWI Number
API	.	150332160301	:API Number

#SURVEYS:

#SVY	DEPTH	INCL	AZM	TVD	VS	N/-S	E/-W
~Other Information							
0	800.00	0.00	0.00	800.00	0.00	0.00	0.00
1	1012.00	0.20	70.40	1012.00	0.14	0.12	0.35
2	1290.00	0.20	301.10	1290.00	0.55	0.54	0.39
3	1558.00	0.20	39.90	1558.00	1.15	1.14	0.29
4	1821.00	0.40	67.60	1820.99	1.89	1.84	1.43
5	2094.00	1.10	69.70	2093.97	3.28	3.11	4.77
6	2372.00	1.10	53.20	2371.92	5.97	5.64	9.41
7	2650.00	1.10	35.30	2649.87	9.87	9.41	13.09
8	2928.00	1.10	17.40	2927.82	14.68	14.14	15.43
9	3206.00	1.40	5.00	3205.75	20.64	20.07	16.52
10	3484.00	1.60	357.00	3483.66	27.90	27.33	16.62
11	3762.00	1.80	351.30	3761.53	36.06	35.52	15.75
12	4040.00	4.00	39.20	4039.19	48.08	47.35	21.22
13	4318.00	2.60	27.50	4316.73	61.50	60.46	30.26
14	4701.00	2.30	30.00	4699.38	76.13	74.82	38.12
15	4732.00	2.50	29.00	4730.35	77.28	75.95	38.76
16	4764.00	2.50	27.90	4762.32	78.53	77.18	39.42
17	4796.00	2.50	29.00	4794.29	79.78	78.40	40.09
18	4828.00	3.30	32.50	4826.25	81.20	79.79	40.92
19	4859.00	6.00	34.90	4857.15	83.33	81.87	42.32
20	4891.00	8.60	33.20	4888.88	86.78	85.25	44.59
21	4923.00	10.90	33.20	4920.42	91.42	89.78	47.56
22	4953.00	13.50	33.20	4949.74	96.84	95.08	51.03
23	4985.00	16.40	33.50	4980.65	103.89	101.98	55.57
24	5016.00	19.20	34.60	5010.17	111.92	109.83	60.88
25	5047.00	22.30	34.60	5039.15	121.18	118.87	67.12
26	5078.00	25.20	34.60	5067.52	131.70	129.14	74.21
27	5109.00	28.00	34.90	5095.24	143.38	140.54	82.12
28	5140.00	30.60	34.60	5122.27	156.14	153.01	90.76
29	5171.00	33.60	33.20	5148.53	170.14	166.68	99.94
30	5171.00	33.60	33.20	5148.53	170.14	166.68	99.94
31	5202.00	36.40	31.80	5173.92	185.46	181.68	109.49
32	5232.00	39.20	31.10	5197.62	201.48	197.37	119.08

Robert Gray 1-20H LAS

33	5263.00	42.80	30.40	5221.02	219.32	214.85	129.47
34	5295.00	45.90	29.70	5243.90	239.07	234.21	140.67
35	5326.00	48.90	27.90	5264.88	259.44	254.20	151.65
36	5357.00	52.40	25.80	5284.53	281.20	275.59	162.47
37	5389.00	56.50	25.10	5303.13	305.09	299.10	173.65
38	5420.00	60.00	23.30	5319.44	329.50	323.14	184.44
39	5451.00	63.30	21.90	5334.16	355.04	348.32	194.92
40	5482.00	66.70	20.50	5347.26	381.58	374.51	205.08
41	5512.00	69.70	18.80	5358.40	408.12	400.74	214.44
42	5543.00	73.00	17.70	5368.31	436.32	428.64	223.63
43	5573.00	76.50	15.90	5376.21	464.31	456.34	231.99
44	5604.00	79.90	13.80	5382.54	493.89	485.67	239.76
45	5635.00	82.90	11.70	5387.18	524.01	515.56	246.52
46	5665.00	85.70	8.90	5390.16	553.54	544.92	251.86
47	5710.00	89.60	8.90	5392.00	598.17	589.33	258.81
48	5739.00	89.70	5.80	5392.18	627.05	618.09	262.52
49	5771.00	90.30	5.80	5392.18	658.98	649.93	265.76
50	5803.00	91.70	5.40	5391.62	690.91	681.77	268.88
51	5835.00	91.70	5.40	5390.67	722.84	713.61	271.89
52	5866.00	91.80	4.70	5389.73	753.78	744.48	274.62
53	5898.00	92.40	3.30	5388.55	785.74	776.38	276.85
54	5929.00	92.40	3.30	5387.26	816.71	807.30	278.63
55	5961.00	92.40	0.80	5385.92	848.68	839.25	279.77
56	5993.00	91.80	0.10	5384.74	880.64	871.23	280.03
57	6024.00	89.70	359.80	5384.34	911.62	902.22	280.00
58	6056.00	89.00	359.10	5384.70	943.58	934.22	279.69
59	6088.00	90.10	359.80	5384.95	975.55	966.21	279.38
60	6119.00	90.60	359.40	5384.76	1006.52	997.21	279.17
61	6151.00	91.70	359.80	5384.12	1038.48	1029.20	278.94
62	6183.00	94.10	359.10	5382.50	1070.41	1061.16	278.64
63	6215.00	97.10	359.80	5379.38	1102.22	1093.00	278.33
64	6247.00	97.70	359.40	5375.26	1133.92	1124.73	278.11
65	6279.00	97.00	359.10	5371.16	1165.62	1156.47	277.69
66	6311.00	96.20	358.70	5367.49	1197.36	1188.25	277.08
67	6343.00	96.10	358.40	5364.06	1229.12	1220.06	276.28
68	6375.00	96.40	358.00	5360.57	1260.86	1251.85	275.28
69	6404.00	96.60	358.00	5357.29	1289.60	1280.65	274.27
70	6438.00	96.10	358.00	5353.53	1323.30	1314.42	273.10
71	6470.00	95.70	358.00	5350.24	1355.06	1346.23	271.98
72	6502.00	96.10	358.00	5346.95	1386.81	1378.04	270.87
73	6533.00	95.90	357.70	5343.71	1417.56	1408.85	269.72
74	6565.00	95.90	357.70	5340.42	1449.29	1440.65	268.44
75	6596.00	96.10	357.00	5337.18	1480.02	1471.45	267.01
76	6628.00	95.70	358.00	5333.89	1511.75	1503.25	265.63
77	6659.00	95.70	358.00	5330.81	1542.52	1534.08	264.55
78	6691.00	95.70	358.00	5327.58	1574.26	1565.89	263.24
79	6691.00	95.90	357.30	5327.58	1574.26	1565.89	263.24
80	6755.00	96.10	357.30	5321.00	1637.74	1629.49	260.63
81	6786.00	96.40	357.00	5317.63	1668.44	1660.27	259.10
82	6818.00	96.80	357.70	5313.95	1700.12	1692.02	257.63
83	6850.00	97.00	356.60	5310.10	1731.77	1723.75	256.05
84	6882.00	96.40	357.70	5306.37	1763.44	1755.49	254.47
85	6913.00	96.80	357.70	5302.81	1794.15	1786.26	253.24
86	6945.00	96.60	357.30	5299.07	1825.83	1818.01	251.85
87	7006.00	95.70	357.00	5292.54	1886.25	1878.59	248.83
88	7037.00	96.20	357.00	5289.32	1916.97	1909.38	247.22
89	7069.00	94.80	357.70	5286.26	1948.71	1941.20	245.75
90	7101.00	94.80	357.70	5283.58	1980.51	1973.06	244.47
91	7165.00	92.20	357.70	5279.67	2044.20	2036.88	241.91
92	7196.00	91.00	358.40	5278.81	2075.11	2067.85	240.85
93	7228.00	91.00	358.70	5278.25	2107.05	2099.84	240.04
94	7260.00	91.30	358.70	5277.61	2138.99	2131.82	239.32
95	7292.00	90.10	359.40	5277.22	2170.94	2163.81	238.79



Robert Gray 1-20H LAS

96	7292.00	90.10	359.40	5277.22	2170.94	2163.81	238.79
97	7323.00	90.10	359.40	5277.16	2201.91	2194.81	238.46
98	7355.00	90.40	0.10	5277.02	2233.88	2226.81	238.32
99	7387.00	90.80	0.10	5276.69	2265.86	2258.81	238.38
100	7418.00	91.30	0.80	5276.12	2296.85	2289.80	238.62
101	7450.00	90.60	0.50	5275.59	2328.83	2321.80	238.98
102	7482.00	90.60	0.10	5275.25	2360.82	2353.79	239.15
103	7513.00	90.80	0.10	5274.87	2391.80	2384.79	239.20
104	7545.00	91.00	0.10	5274.37	2423.77	2416.79	239.26
105	7576.00	90.30	359.80	5274.02	2454.75	2447.79	239.23
106	7608.00	90.30	359.80	5273.85	2486.73	2479.78	239.12
107	7640.00	90.30	359.40	5273.69	2518.70	2511.78	238.90
108	7671.00	90.30	359.10	5273.52	2549.66	2542.78	238.49
109	7703.00	90.30	359.10	5273.36	2581.62	2574.78	237.99
110	7735.00	90.30	358.70	5273.19	2613.57	2606.77	237.38
111	7767.00	90.40	358.00	5272.99	2645.50	2638.76	236.45
112	7798.00	90.40	358.40	5272.78	2676.43	2669.74	235.48
113	7830.00	90.40	358.40	5272.55	2708.36	2701.73	234.59
114	7862.00	89.90	357.70	5272.47	2740.29	2733.71	233.50
115	7893.00	88.90	357.70	5272.79	2771.20	2764.68	232.25
116	7925.00	88.90	357.70	5273.41	2803.10	2796.65	230.97
117	7957.00	89.00	357.70	5273.99	2835.00	2828.62	229.69
118	7989.00	88.70	358.40	5274.64	2866.92	2860.59	228.60
119	8021.00	88.90	357.70	5275.31	2898.83	2892.57	227.51
120	8053.00	89.00	357.70	5275.89	2930.73	2924.53	226.23
121	8084.00	89.00	357.30	5276.43	2961.63	2955.50	224.87
122	8116.00	89.00	358.70	5276.99	2993.55	2987.48	223.76
123	8148.00	88.90	359.10	5277.58	3025.49	3019.46	223.14
124	8180.00	89.00	358.70	5278.17	3057.44	3051.45	222.53
125	8212.00	89.20	359.10	5278.67	3089.39	3083.44	221.91
126	8243.00	89.40	358.70	5279.05	3120.34	3114.43	221.32
127	8275.00	89.60	359.10	5279.33	3152.29	3146.43	220.70
128	8307.00	89.70	358.40	5279.52	3184.24	3178.42	220.01
129	8339.00	90.30	358.40	5279.52	3216.17	3210.41	219.11
130	8370.00	90.40	358.00	5279.33	3247.10	3241.39	218.14
131	8401.00	90.60	357.70	5279.06	3278.02	3272.37	216.98
132	8433.00	90.10	358.00	5278.87	3309.93	3304.34	215.78
133	8465.00	89.90	358.70	5278.87	3341.86	3336.33	214.85
134	8497.00	89.90	358.00	5278.92	3373.80	3368.32	213.93
135	8528.00	90.30	358.00	5278.87	3404.72	3399.30	212.85
136	8560.00	90.40	358.00	5278.67	3436.64	3431.28	211.73
137	8592.00	90.60	357.70	5278.39	3468.55	3463.26	210.53
138	8624.00	90.40	357.30	5278.11	3500.45	3495.22	209.14
139	8656.00	90.60	357.30	5277.83	3532.34	3527.19	207.63
140	8687.00	90.60	357.70	5277.51	3563.24	3558.16	206.28
141	8719.00	90.60	357.70	5277.17	3595.15	3590.13	204.99
142	8750.00	91.10	357.70	5276.71	3626.06	3621.10	203.75
143	8782.00	91.10	358.00	5276.10	3657.97	3653.07	202.55
144	8814.00	91.00	357.70	5275.51	3689.87	3685.04	201.35
145	8846.00	91.80	358.40	5274.73	3721.79	3717.01	200.26
146	8878.00	92.60	359.40	5273.50	3753.71	3748.98	199.65
147	8909.00	92.60	359.10	5272.10	3784.65	3779.95	199.24
148	8941.00	92.60	359.40	5270.65	3816.58	3811.91	198.82
149	8973.00	92.70	359.80	5269.17	3848.51	3843.88	198.60
150	9004.00	92.90	359.80	5267.65	3879.45	3874.84	198.49
151	9036.00	93.30	359.80	5265.92	3911.38	3906.79	198.38
152	9068.00	93.40	359.80	5264.05	3943.30	3938.74	198.27
153	9100.00	92.90	359.80	5262.29	3975.23	3970.69	198.16
154	9132.00	93.10	0.50	5260.62	4007.17	4002.65	198.24
155	9163.00	93.40	359.80	5258.86	4038.10	4033.60	198.32
156	9195.00	93.30	0.50	5256.99	4070.03	4065.54	198.41
157	9227.00	93.40	359.80	5255.12	4101.96	4097.49	198.49
158	9259.00	91.30	359.80	5253.81	4133.90	4129.46	198.38



Robert Gray 1-20H LAS							
159	9291.00	90.40	358.70	5253.33	4165.86	4161.45	197.96
160	9323.00	90.10	357.70	5253.19	4197.79	4193.43	196.95
161	9355.00	90.30	358.70	5253.08	4229.71	4225.42	195.95
162	9386.00	90.30	358.40	5252.92	4260.66	4256.41	195.16
163	9418.00	90.40	357.30	5252.73	4292.57	4288.38	193.96
164	9450.00	90.60	358.00	5252.45	4324.47	4320.35	192.65
165	9482.00	90.60	357.30	5252.11	4356.38	4352.33	191.34
166	9514.00	90.60	356.30	5251.78	4388.24	4384.27	189.55
167	9546.00	89.40	356.30	5251.78	4420.08	4416.21	187.49
168	9577.00	89.70	356.60	5252.02	4450.93	4447.15	185.57
169	9609.00	89.60	357.70	5252.21	4482.82	4479.11	183.98
170	9641.00	90.30	358.00	5252.24	4514.73	4511.08	182.78
171	9677.00	90.80	357.00	5251.90	4550.61	4547.05	181.21
172	9704.00	91.80	356.30	5251.28	4577.49	4573.99	179.63
173	9735.00	91.00	357.00	5250.53	4608.34	4604.93	177.82
174	9767.00	91.10	357.00	5249.94	4640.21	4636.88	176.15
175	9799.00	91.70	357.70	5249.16	4672.09	4668.84	174.67
176	9830.00	91.80	357.30	5248.21	4702.98	4699.79	173.31
177	9862.00	91.80	357.00	5247.21	4734.85	4731.74	171.72

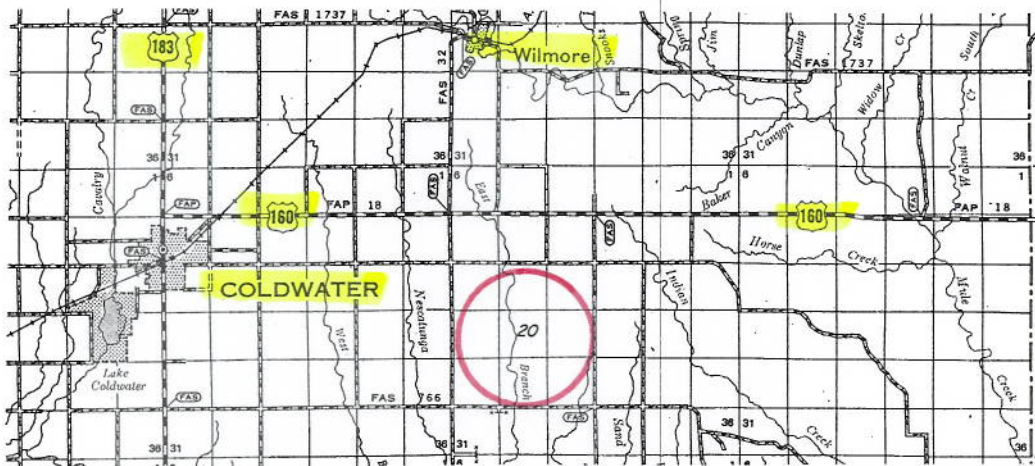
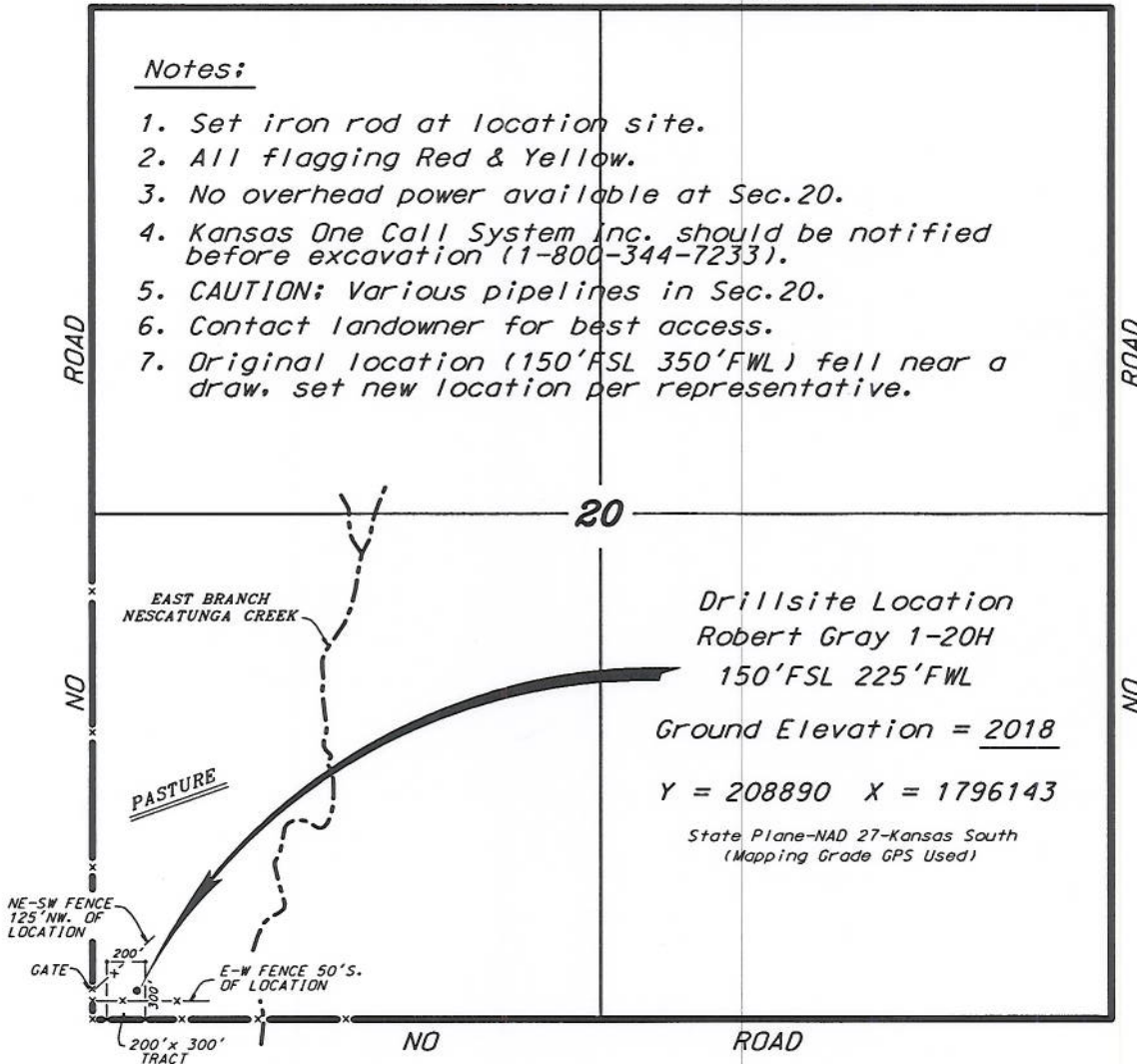
**REEDER OPERATING, LLC  
ROBERT GRAY LEASE  
SW.1/4, SECTION 20, T32S, R17W  
COMANCHE COUNTY, KANSAS**

NO ROAD

**Notes:**

1. Set iron rod at location site.
2. All flagging Red & Yellow.
3. No overhead power available at Sec.20.
4. Kansas One Call System Inc. should be notified before excavation (1-800-344-7233).
5. CAUTION; Various pipelines in Sec.20.
6. Contact landowner for best access.
7. Original location (150'FSL 350'FWL) fell near a draw, set new location per representative.

\*Ingress and egress to location as shown on this plot is per usage only and may not be legally opened for public use. Contact landowner, tenant and county road department for access.



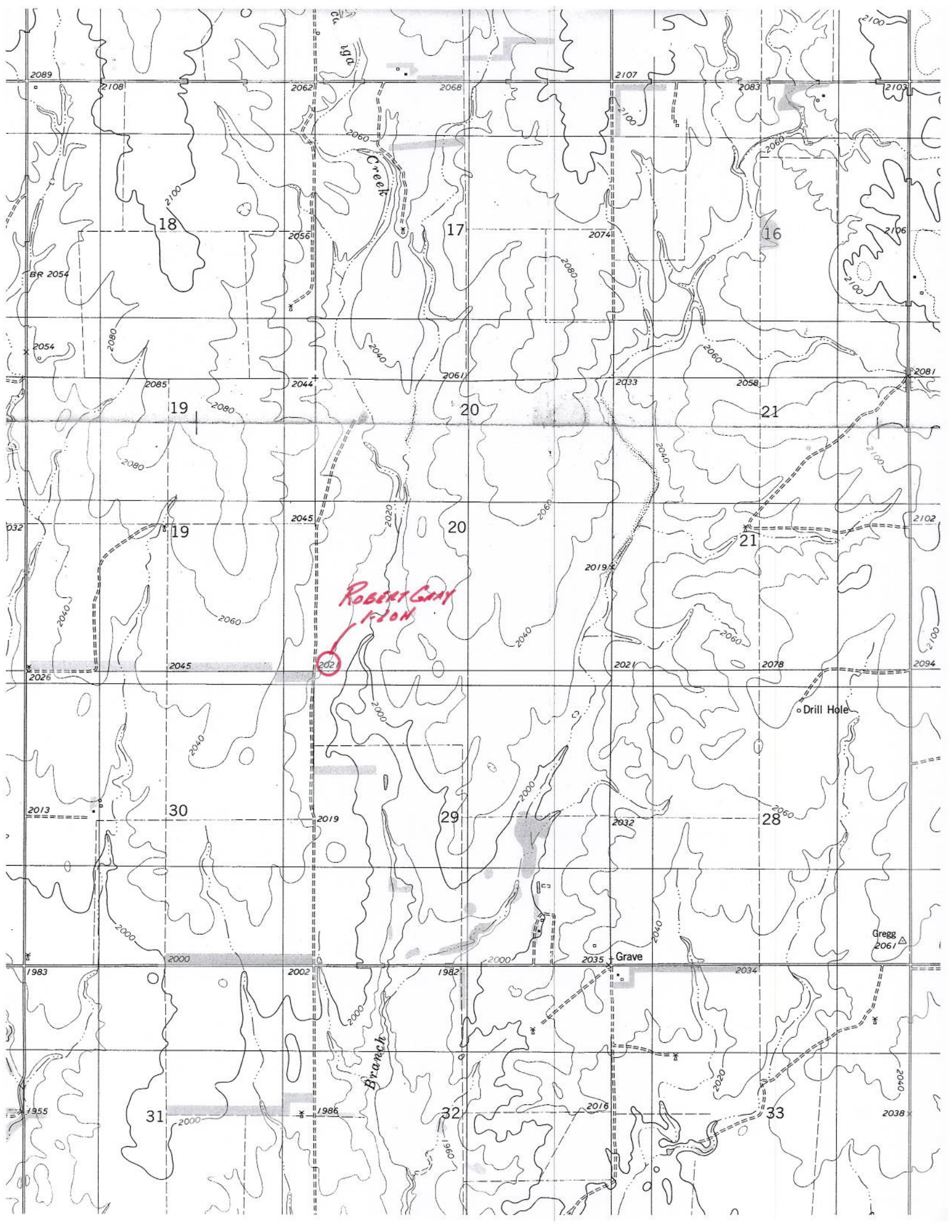
\* Controlling data is based upon the best maps and photographs available to us and upon a regular section of land containing 640 acres.

\* Approximate section lines were determined using the normal standard of care of oilfield surveyors practicing in the state of Kansas. The section corners, which establish the precise section lines, were not necessarily located, and the exact location of the drillsite location in the section is not guaranteed. Therefore, the operator securing this service and accepting this plot and all other parties relying thereon agree to hold Central Kansas Oilfield Services, Inc., its officers and employees harmless from all losses, costs and expenses and said entities released from any liability from incidental or consequential damages.

\* Elevations derived from National Geodetic Vertical Datum.

Date September 14, 2011





ROBERT GAY  
1-20-11

202

Branch

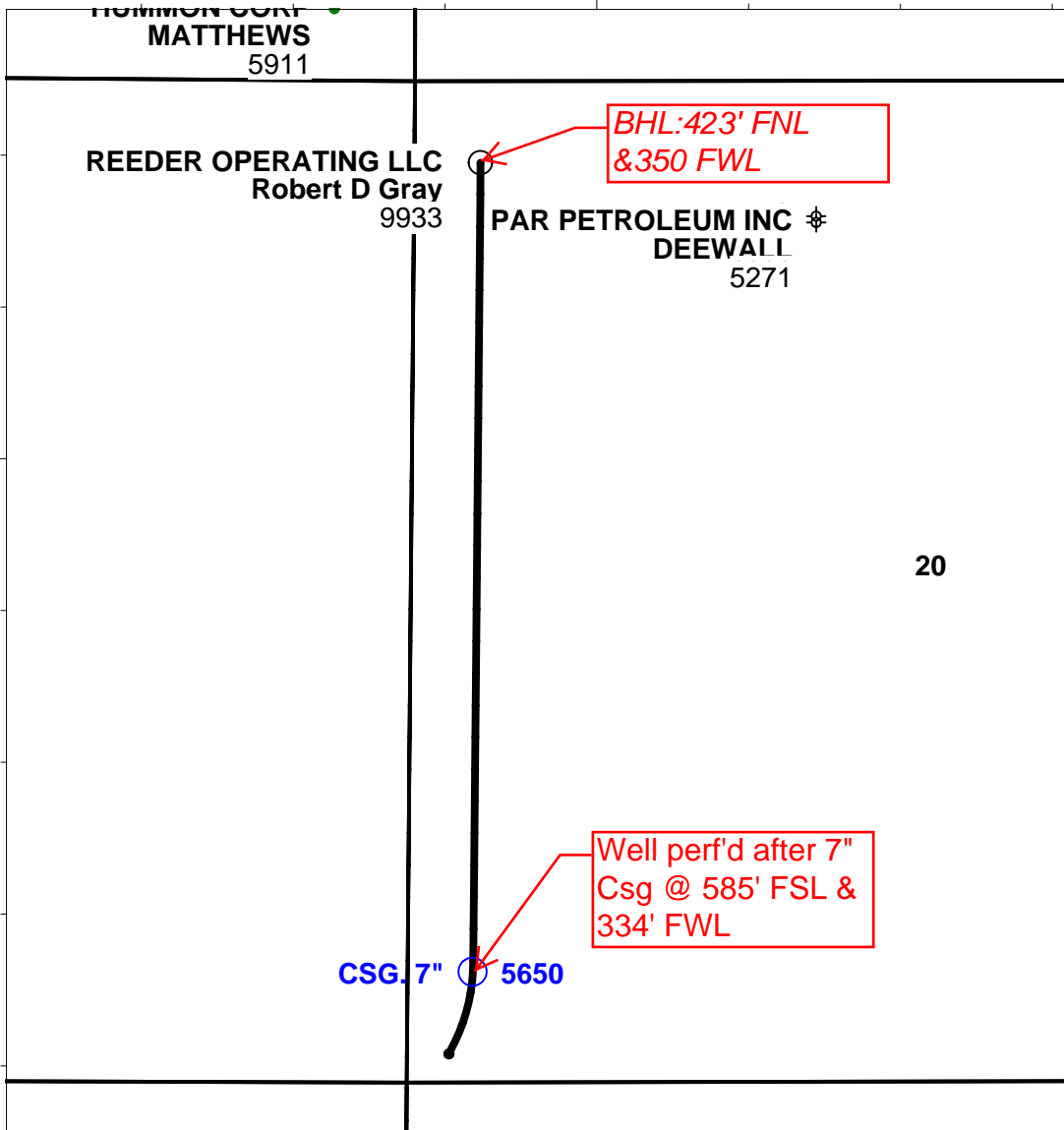
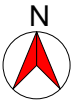
Grave

Drill Hole

Gregg 2061



X/Y:  
Feet



	Reeder Operating LLC
Plat Map- Robert D. Gray 1-20H	
Comanche Co., KS	
Scale = 1:11943	
Base Map Section 20- T32S R17W NAD 1927 State Plane	