



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Confidentiality Requested:

[] Yes [] No

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

[] Gas [] DH [] EOR

[] OG [] GSW

[] 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 EOR [] Conv. to SWD
[] Plug Back [] Liner [] Conv. to GSW [] Conv. to Producer

[] Commingled Permit #: _____

[] Dual Completion Permit #: _____

[] SWD Permit #: _____

[] EOR Permit #: _____

[] GSW Permit #: _____

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

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: [] NAD27 [] NAD83 [] WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

- [] Confidentiality Requested
Date: _____
[] Confidential Release Date: _____
[] Wireline Log Received [] Drill Stem Tests Received
[] Geologist Report / Mud Logs Received
[] UIC Distribution
ALT [] I [] II [] III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

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 Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No 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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Summary of Changes

Lease Name and Number: Edwards 17B 1

API/Permit #: 15-109-21423-00-00

Doc ID: 1314523

Correction Number: 1

Approved By: Karen Ritter

Field Name	Previous Value	New Value
Approved By	NAOMI JAMES	Karen Ritter
Approved Date	10/30/2015	08/19/2016
Date of First or Resumed Production or SWD or Enhr Producing Formation	N/A	08/11/2016 Altamont A
Producing Method Pumping	No	Yes
Production - Barrels Oil		20.02
Production - Barrels of Water		80
Production - Oil Gravity		30
Save Link	../../kcc/detail/operatorEditDetail.cfm?docID=1269472	../../kcc/detail/operatorEditDetail.cfm?docID=1314523
TopsDatum2		See Attached

Summary of changes for correction 1 continued

Field Name	Previous Value	New Value
TopsDepth2		See Attached



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1269472
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed

Form must be Signed

All blanks must be Filled

CONFIDENTIAL 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

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Elevation: Ground: _____ Kelly Bushing: _____

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If yes, show depth set: _____ Feet

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feet depth to: _____ w/ _____ sx cmt.

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(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

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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

- Confidentiality Requested
Date: _____
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- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Edwards 17B 1
Doc ID	1269472

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
4	4466'-4476'	750 gals 15% NE	



#1 Edwards 17B

910' FNL & 1400' FWL

80' N & 80' E of S/2 N/2 NW Section 17-15S-35W

Logan County, Kansas

Ken Norton Prospect

API# 15-109-21423-0000

Elevation: GL: 3266', KB: 3271'

Sample Tops			Ref. Well
Anhydrite	2573'	+698	+9
B/Anhydrite	2593'	+678	+8
Stotler	3657'	-386	-1
Heebner	4015'	-744	+4
Toronto	4040'	-769	-4
Lansing	4069'	-798	-2
Muncie Shale	4234'	-963	+3
Stark Shale	4321'	-1050	+10
Hush	4368'	-1097	+6
BKC	4405'	-1134	+4
Marmaton	4450'	-1179	-1
Altamont	4457'	-1186	+4
Pawnee	4537'	-1266	Flat
Myrick	4580'	-1309	+4
Fort Scott	4591'	-1320	+6
Cherokee	4622'	-1351	+3
Johnson	4705'	-1434	+1
Morrow Shale	4758'	-1487	+9
Mississippian	4834'	-1563	-12
RTD	4910'	-1639	

EDWARDS 17B11

ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. #20-5975804

067822

REMIT TO P.O. BOX 93999
SOUTH LAKE, TEXAS 76092

SERVICE POINT

Oshtemo KS

DATE <i>7-17-15</i>	SEC <i>17</i>	TWP. <i>15</i>	RANGE <i>35</i>	CALLED OUT	ON LOCATION <i>8:00 p.m</i>	JOB START <i>9:30 a.m</i>	JOB FINISH <i>10:00 a.m</i>	
LEASE <i>Edwards 17B</i> WELL # <i>1</i>			LOCATION <i>Russell springs S on Hwy 25</i>				COUNTY <i>Hogan</i>	STATE <i>KS</i>
OLD OR <u>NEW</u> (Circle one)			to Dakota Rd, E to Rd 240, W into					

CONTRACTOR <i>WWS</i>	OWNER <i>Same</i>
TYPE OF JOB <i>Surface</i>	
HOLE SIZE <i>12 1/4</i>	T.D. <i>220</i>
CASING SIZE <i>8 7/8</i>	DEPTH <i>220</i>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <i>15'</i>	
PERFS.	
DISPLACEMENT <i>13.561</i>	
EQUIPMENT	

CEMENT	
AMOUNT ORDERED <i>165 sks Cem</i>	
<i>5 1/2" 2 1/2" gel</i>	

COMMON	<i>165 sks @ 17.90</i>	<i>2953.50</i>
POZMIX	@	
GBL	<i>3/0 # @ 1.50</i>	<i>155.00</i>
CHLORIDE	<i>46 # @ 1.10</i>	<i>511.50</i>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	

TOTAL *3,680.00*
DISCOUNT *40% 1448.00*

PUMP TRUCK	CEMENTER <i>Paul Beaver</i>
# <i>431</i>	HELPER <i>Brandon Wilkinson</i>
BULK TRUCK	
#	DRIVER <i>Brian Lang (Great Bend)</i>
BULK TRUCK	
#	DRIVER

REMARKS:

mix @ 165 sks
Displace w/ water
cement did arc
cement in cellar only
Thank You Paul + crew

SERVICE

HANDLING	<i>178.41 ft³ @ 2.48</i>	<i>442.46</i>
MILEAGE	<i>8.14 hrs @ 50 mi @ 2.75</i>	<i>1119.25</i>
DEPTH OF JOB	<i>220</i>	
PUMP TRUCK CHARGE		<i>1572.25</i>
EXTRA FOOTAGE	@	
HV MILEAGE	<i>50 @ 7.70</i>	<i>385.00</i>
LV MILEAGE	<i>50 @ 4.40</i>	<i>220.00</i>
	@	
	@	

TOTAL *3,678.96*
DISCOUNT *40% 1471.58*

CHARGE TO: *Ritchie Exploration*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
	@	
TOTAL		
DISCOUNT	%	

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE *[Signature]*

SALES TAX (if Any) _____

TOTAL CHARGES *7,298.96*

DISCOUNT *2,919.58 (40%)* IF PAID IN 30 DAYS

NET TOTAL *4,379.37* IF PAID IN 30 DAYS



PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

37664
3685

TICKET NUMBER 47986
LOCATION Jakley Ks.
FOREMAN Cory O. Perry

FIELD TICKET & TREATMENT REPORT

CEMENT Invoice# 805266

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8-5/15	7173	Edwardy 1-17/B	17	15	35 W	Logan Ks.	
CUSTOMER Ritchie		Russel Springs E to 270 S to Oketo W to 240 N follow tracks		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				Cody R.	731	3hr	
CITY		STATE		ZIP CODE			
				Keith C.	515	I	
				Rob S.	528		

JOB TYPE Port collar HOLE SIZE 7 7/8 HOLE DEPTH _____ CASING SIZE & WEIGHT 4 1/2 10.5
CASING DEPTH _____ DRILL PIPE _____ TUBING 2 3/8 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 1/2 ABL
DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Soft meeting - rig up on Rig/Wide - trust tool to 1200 PSI, mix 550 60/40 60/40 1/4 # flo wash up + Displace 9 ABL water run 5 joint circ. out with 25 ABL Rig down

Cement did circ.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 045	1	PUMP CHARGE	1,900.00	1,900.00
CE 0002	40	MILEAGE	7.15	286.00
CE 0710	23.65	Cement Delivery charge	1.75	1,655.50
CC 5830	550 cks.	60/40 6% Blend	16.75	9,212.50
CC 6075	137 #	Celloflake	3.00	411.00
CC 6080	1000 #	Cotton seed Hulls	.50	500.00
			sub total	13,965.00
			30% less	4,189.50
			sub total	9,775.50
			SALES TAX	506.92
			ESTIMATED TOTAL	10342.42

Ravin 3737

AUTHORIZATION Cory Perry TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer account records, at our office, and conditions of service on the back of this form are in effect for services identified on



CONSOLIDATED
Oil Well Services, LLC

3708

805139

3628

INVOICE#

TICKET NUMBER 47984

LOCATION Oakley, ks.

FOREMAN Cory Davis
Walt D.

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
7/31/11	7173	Edwardy 1-173	17	15	35W	Logan K.
CUSTOMER <u>Ritchie</u>						
MAILING ADDRESS						
CITY		STATE	ZIP CODE			
TRUCK #	DRIVER	TRUCK #	DRIVER			
<u>731</u>	<u>Cody R.</u>					
<u>693</u>	<u>Colin S.</u>					
<u>522</u>						
<u>697</u>						

JOB TYPE 1/2 long string HOLE SIZE 7 7/8 HOLE DEPTH 4910 CASING SIZE & WEIGHT 4 1/2 10.5
 CASING DEPTH 4910 DRILL PIPE _____ TUBING _____ OTHER shoe at 4886
 SLURRY WEIGHT 14.6 SLURRY VOL 1.42 WATER gal/sk 6.9 CEMENT LEFT in CASING 21
 DISPLACEMENT 77.68/80 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safely making - Rig upon wwr run casing with float equipt on joint
torob shoe joint 3, 6, 8, 11, 15, 55, 57 Baskets on top of 9, 55, 71, 93, 100 port collar on joint
56 @ 7, 528' finish running casing. Hook up to rig pump circ. for 1 hr. Hook up to pump
truck mix 225 sks owc 5# Kolseal .256 CDI 26 1/4# of 38 shut down wash pump &
lines release plug and Displace 80 BBL water plug lift 900 PSI Land 1400
Rig down Plug Hold

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	3,900.00	3,900.00
CE0002	40	MILEAGE	7.15	286.00
CE0710	14.15	Cement Delivery charge	61.75	990.50
CC5862	255 sks	OWC - Thixo Blend 3	26.00	6,630.00
CC6077	1275 #	Kolseal	.50	637.50
CC6000	56 #	CDI 26	7.85	439.60
CC6155	63 #	CAF-38	10.20	642.60
CP8484	1	AFU float shoe 4 1/2	470.00	470.00
CP8253	1	Latchdown Plug 4 1/2	340.00	340.00
CP8575	8	Turbolizers 4 1/2	95.00	760.00
CP8628	5	Baskets 4 1/2	350.00	1,750.00
CP8715	1	Port weller 4 1/2	2,750.00	2,750.00
CC6125	500 gal	Mud flush	.65	325.00
			sub total	19921.20
			30% Lvs	5976.36
			sub total	13944.84
			SALES TAX	823.70
			ESTIMATED TOTAL	14770.54

Ravin 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOGS

COMPANY: **Richie Exploration**

LEASE #1: **Edwards 17B**

FIELD: **Wildcat**

LOCATION: **S/2 N/2 NW**

COUNTY: **Logan**

STATE: **KS**

CONTRACTOR: **WV #8**

SPUD: **1-17-15**

RID: **4-10-15**

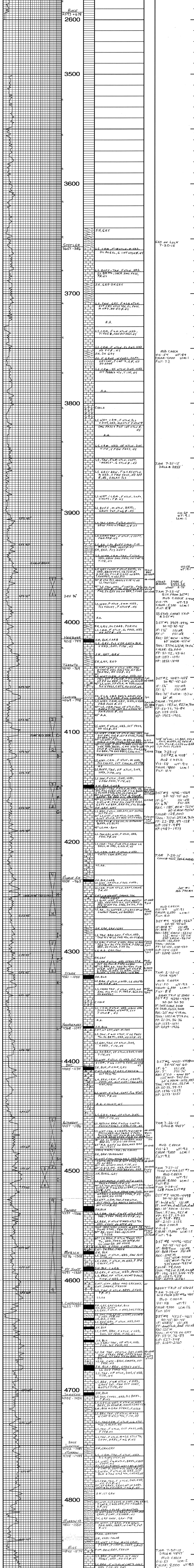
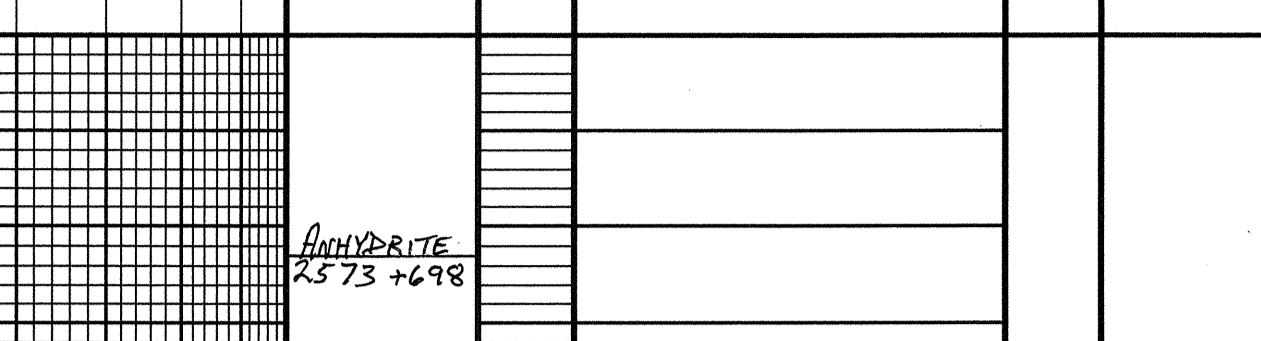
MUD UP: **3364**

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SPUR	ELECTRIC	SURF	STRUC	POSITION
Andover	4273	4270	701	A	
Edwards	4282	4281	691	B	
Edwards	4283	4281	681	B	
Edwards	4284	4281	671	B	
Edwards	4285	4281	661	B	
Edwards	4286	4281	651	B	
Edwards	4287	4281	641	B	
Edwards	4288	4281	631	B	
Edwards	4289	4281	621	B	
Edwards	4290	4281	611	B	
Edwards	4291	4281	601	B	
Edwards	4292	4281	591	B	
Edwards	4293	4281	581	B	
Edwards	4294	4281	571	B	
Edwards	4295	4281	561	B	
Edwards	4296	4281	551	B	
Edwards	4297	4281	541	B	
Edwards	4298	4281	531	B	
Edwards	4299	4281	521	B	
Edwards	4300	4281	511	B	
Edwards	4301	4281	501	B	
Edwards	4302	4281	491	B	
Edwards	4303	4281	481	B	
Edwards	4304	4281	471	B	
Edwards	4305	4281	461	B	
Edwards	4306	4281	451	B	
Edwards	4307	4281	441	B	
Edwards	4308	4281	431	B	
Edwards	4309	4281	421	B	
Edwards	4310	4281	411	B	
Edwards	4311	4281	401	B	
Edwards	4312	4281	391	B	
Edwards	4313	4281	381	B	
Edwards	4314	4281	371	B	
Edwards	4315	4281	361	B	
Edwards	4316	4281	351	B	
Edwards	4317	4281	341	B	
Edwards	4318	4281	331	B	
Edwards	4319	4281	321	B	
Edwards	4320	4281	311	B	
Edwards	4321	4281	301	B	
Edwards	4322	4281	291	B	
Edwards	4323	4281	281	B	
Edwards	4324	4281	271	B	
Edwards	4325	4281	261	B	
Edwards	4326	4281	251	B	
Edwards	4327	4281	241	B	
Edwards	4328	4281	231	B	
Edwards	4329	4281	221	B	
Edwards	4330	4281	211	B	
Edwards	4331	4281	201	B	
Edwards	4332	4281	191	B	
Edwards	4333	4281	181	B	
Edwards	4334	4281	171	B	
Edwards	4335	4281	161	B	
Edwards	4336	4281	151	B	
Edwards	4337	4281	141	B	
Edwards	4338	4281	131	B	
Edwards	4339	4281	121	B	
Edwards	4340	4281	111	B	
Edwards	4341	4281	101	B	
Edwards	4342	4281	91	B	
Edwards	4343	4281	81	B	
Edwards	4344	4281	71	B	
Edwards	4345	4281	61	B	
Edwards	4346	4281	51	B	
Edwards	4347	4281	41	B	
Edwards	4348	4281	31	B	
Edwards	4349	4281	21	B	
Edwards	4350	4281	11	B	

REMARKS: **DIAMOND TESTING - TIM VENTERS**
MAKERS LOGGING
Mud Co = REID ADKINS

LEGEND



DEPTH

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Decreases

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

418' 45" to 419' 15" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

419' 15" to 420' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

420' 00" to 421' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

421' 00" to 422' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

422' 00" to 423' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

423' 00" to 424' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

424' 00" to 425' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

425' 00" to 426' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

426' 00" to 427' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

427' 00" to 428' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

428' 00" to 429' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

429' 00" to 430' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

430' 00" to 431' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

431' 00" to 432' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

432' 00" to 433' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

433' 00" to 434' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

434' 00" to 435' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

435' 00" to 436' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

436' 00" to 437' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

437' 00" to 438' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

438' 00" to 439' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

439' 00" to 440' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

440' 00" to 441' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

441' 00" to 442' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

442' 00" to 443' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

443' 00" to 444' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

444' 00" to 445' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

445' 00" to 446' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

446' 00" to 447' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

447' 00" to 448' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

448' 00" to 449' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

449' 00" to 450' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

450' 00" to 451' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

451' 00" to 452' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

452' 00" to 453' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

453' 00" to 454' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

454' 00" to 455' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

455' 00" to 456' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

456' 00" to 457' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

457' 00" to 458' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

458' 00" to 459' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc

459' 00" to 460' 00" L.S. BRN, OOL, FESS, MHRB, VG FESS, C.OIL FULL, CSFO, 60W BRK 1pc