

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACD-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 063-21,454 ⁰⁰⁻⁸⁹ **ORIGINAL**
County Gove
SE - SE - SE - Sec. 31 Twp. 12S Rge. 31 X W

Operator: License # 31016
Name: Diversified Operating Corporation

330 Feet from S/N (circle one) Line of Section
330 Feet from E/W (circle one) Line of Section

Address 1675 Larimer St., Suite 850
City/State/Zip Denver, CO 80202

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Purchaser: N/A
Operator Contact Person: Terry Cammon
Phone (303) - 595-3957

Lease Name Leo Well # 64-16-31
Field Name _____

Contractor: Name: Emphasis Oil Operations
License: 8241

Producing Formation None
Elevation: Ground 2962' KB 2967'

Wellsite Geologist: Matt Goldsby

Total Depth 4750' PBTD _____
Amount of Surface Pipe Set and Cemented at 222 Feet

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet

If Workover/Re-Entry: old well info as follows:

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
4/24/93 5/2/93
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan D&A JH 7-15-94
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

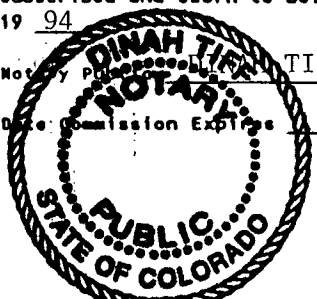
Operator Name _____
Lease Name _____ License No. _____
Quarter Sec. Twp. S Rng. E/W
County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature TERRY J. CAMMON
Title PRESIDENT Date 7/25/94

Subscribed and sworn to before me this 25th day of JULY
19 94
Notary Public TIFF
Date Commission Expires MY COMMISSION EXPIRES APRIL 19, 1998



K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

RECEIVED
STATE CORPORATION COMMISSION STATE OF KANSAS

JUL 27 1994
07-27-1994
03-14-94
CONSERVATION DIVISION

Operator Name Diversified Operat Corp. Lease Name Leo Well # 64-16-31
 Sec. 31 Twp. 12S Rge. 31 East County Gove West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No (Submit Copy.)

Log Formation (Top), Depth and Datum Sample Name Top Datum

PLEASE SEE ATTACHED DATA

List All E.Logs Run: DUAL INDUCTION
COMPENSATED DENSITY

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"		221	Portland	140	3% CaCl ₂ 2% gel

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				

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

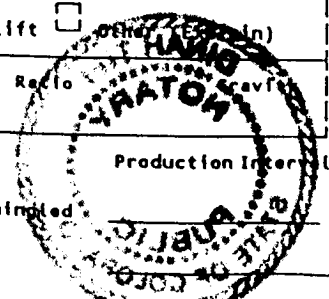
TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. D & A Producing Method Flowing Pumping Gas Lift Other (Specify)

Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Confinned Other (Specify)



ORIGINAL

DOC

Diversified Operating Corporation

March 10, 1994

David P. Williams
Kansas Corporation Commission
Conservation Division
202 West 1st Street
Wichita KS 67202-1286

Re: Outstanding Information
Leo #64-16-31
API #15-063-21, 454-00-00
Sec 31-12S-31W
Gove County, Kansas

Dear Mr. Williams:

Enclosed are the information that you requested from Jack Fox regarding the above named well. If you need further information or have questions, please let us know.

Thank you.

Sincerely,

DIVERSIFIED OPERATING CORPORATION

Dinah Tiff

Dinah Tiff
Secretary to Terry J. Cammon
President

:dt
enclosure(s)

RECEIVED
STATE CORPORATION COMMISSION

MAR 14 1994

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15-063-21454-00-00
ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 4898
 Home Office P. O. Box 31 Russell, Kansas 67665

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
4-24-93	31	12 S	31 W	6:00 PM	8:30 PM	1:00 AM	11:30 AM
Lease Orion	Well No. 1	Location Ogkley S. To Gore Rd - 2E			County GOVE	State Kansas	

Contractor Emphasis Oil Rig 8	Owner Diversified Operating, Inc.
Type Job Surface	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Hole Size 12 1/4	T.D. 22-1
Csg. 8 5/8 20 #	Depth 222
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint
Press Max.	Minimum
Meas Line NO	Displace 13,566 lb
Perf.	

Charge To Emphasis Oil Operations
Street
City State
The above was done to satisfaction and supervision of owner agent or contractor.
Purchase Order No.
X

EQUIPMENT

Pumptrk No. 300	Cementer Ken	Helper FITZ
Pumptrk No.	Cementer	Helper
Bulktrk 315	Driver Steve	
Bulktrk	Driver	

CEMENT	
Amount Ordered 140 SK 60/40 poz 310cc 2 1/2 gal	
Consisting of	
Common 84 SK	
Poz. Mix 56 SK	
Gel.	
Chloride 5 SK	
Quickset	

DEPTH of Job

Reference:	
	Sub Total
	Tax
	Total

Handling	Sales Tax
Mileage	
	Sub Total
	Total

Remarks: Hook up and circulate mud. Hook up and mix 140SK 60/40 poz 310cc 2 1/2 gal. Displace plug with fresh water. Cement did circulate into pit

RECEIVED
 STATE COMPTROLLER COMMISSION
 Ken + crew

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

15-063-21454-00-00

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. 0005246

Home Office P. O. Box 31 Russell, Kansas 67665

Date	5-2-93	Sec.	31	Twp.	12 ^S	Range	31 ^W	Called Out	7:00 pm	On Location	8:00 pm	Job Start	9:15 pm	Finish	11:45 pm
Lease	Lev	Well No.	# 1	Location	Oakley 135-3E-Nin			County	Gove	State	KS				
Contractor	Emphasis Oils #8														
Type Job	PTA														
Hole Size	7 7/8		T.D.	4750											
Csg.			Depth												
Tbg. Size			Depth												
Drill Pipe	4 1/2 16.6		Depth	2485											
Tool			Depth												
Cement Left in Csg.			Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace												
Perf.															

EQUIPMENT

No.	Cementer	
Pumptrk 191	Helper	Fitz
No.	Cementer	Terry
Pumptrk	Helper	
	Driver	Steve
Bulktrk 315	Driver	

DEPTH of Job 2485

Reference:	1 8 3/4 Dip hole Plus	
	1 8 3/4 Dip hole Plus	
	Sub Total	
	Tax	
	Total	

Remarks:

- 25 sks @ 2485
- 100 sks @ 1615
- 40 sks @ 270
- 10 sks @ 40
- 15 sks in RH

Owner Diversified Operating Corp
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To Emphasis Oils

Street _____

City _____ State _____

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____

X Jack D. Fry

CEMENT

Amount Ordered 190 sks 60/40 6 7/8 Gal 1/4" Cello

Consisting of

Common	114 sk
Poz. Mix	76 sk
Gel.	10 sk
Chloride	
Quickset	
Cello	2 sk

Sales Tax	
Handling	
Mileage	
Sub Total	
Total	

Floating Equipment _____

API#15-063-21454-00-00

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-25-93
DEPTH: PO: WOC
DRILLING DAY: 1
MUD REPORT:
RECAP: SPUDED 12-1/4" SURFACE HOLE @ 1914 HRS ON 4/24/93.
SURVEYS:

ORIGINAL

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-26-93
DEPTH: 1867' PO: Drilling @ 1867'
DRILLING DAY: 2
MUD REPORT:
RECAP: Drilled 224' of 12-1/4" surface hole. Ran and set 5 jts, 8-5/8", 20# casing at 221' KB. Cemented w/ 140 sks, 60/40 Pozmix with 2% gel, 3% CaCl. Plug down @ 0130 hrs on 4/25/93. WOC. Drill shoe and plug. Run survey, work on draw works. Drill to 1867'.
SURVEYS: 1/4° @ 224', 1/2° @ 1838'
DC: None
CC: Turnkey

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-27-93
DEPTH: 2950' PO: Drilling
DRILLING DAY: 3
MUD REPORT:
RECAP: Drill and rig service from 1867' to 2950'. Top of Anhydrite beds @ 2474'. Base of the Anhydrite beds @ 2498'.
SURVEYS: None
DC: None
CC: Land Orion: \$25,800
Land Oakley: \$20,869
AFE Orion: \$65,937
TOTAL: \$112,606

Note: Turnkey drilling price: \$45,224 does not include logs, geologist, mud over \$3,500, and surface damages, reclamation, and P&A costs. I anticipate an actual dryhole cost of \$50,000-\$52,000 with the difference between AFE and actual to be refunded to all W.I. owners.

15-063-21454-00-00

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-28-93
DEPTH: 3505' PO: Drilling
DRILLING DAY: 4
MUD REPORT:
RECAP: Drill and TOOH with plugged bit. Replace 5-1/2"
liners on mud pump. Drill to 3505'.

SURVEYS: None
DC: None
CC: \$112,606

ORIGINAL

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-29-93
DEPTH: 4090' PO: Drilling
DRILLING DAY: 5
MUD REPORT: Vis. 4.4, Wt. 8.9
RECAP: Drill to 3700'. Mud up with vis of 44 and wt. of
8.9 Drill and rig service to 4090' with
penetration rate of 2/3 min./ft.
Formation tops: Hebner @ 3964', Lansing @ 4007'.
Show @ 3881'-4007', (Topeka section) Description:
Limestone, light tan, very fine to fine
crystalline, scattered vugs and intercrystalline
porosity, patchy brown stain and occasional spots
free oil. Bright yellow fluorescence with good
streaming cut. Drilled off from 3 min/ft to 1
min/ft then back to 3 min/ft.

Lansing lithology: Limestone, cream to tan, micro
to very fine crystalline, oolitic, scattered
intercrystalline and oolitic clastic porosity,
scattered spots live oil, no permeability.

SURVEYS: None
DC: \$400
CC: \$113,006

15-063-21454-00-00

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 4-30-93
DEPTH: 4465' PO: Drilling
DRILLING DAY: 6
MUD REPORT: Vis. 47, Wt. 9.3, W.L. 9.2
RECAP: Drill from 4090' to 4465'. ROP 3-5 min./ft
Formation tops: Base of Kansas City @ 4310',
Marmaton @ 4339', Pawnee @ 4410'. Expected tops:
Johnson @ 4575', Cherokee @ 4610'. Shows: None of
substance. Rare spots of stain in Lansing/Kansas
City. Lithology: Lansing: frequently oolitic
limestone w/ rare oomoldic & vuggy porosity.
Marmaton: shale, grey green limestone &
argillaceous & occasionally sandy. Pawnee:
fossiliferous limestone.
SURVEYS: None
DC: \$300
CC: \$113,306

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 5-1-93
DEPTH: 4631' PO: DST #1
DRILLING DAY: 7
MUD REPORT: Vis. 46, Wt. 9.4, W.L. 9.2
RECAP: Top of Cherokee at 4614'. Good Show, Good drilling
break from 5 min/ft to 1/2-2 min/ft during the
break. Sample description after 20 min.
circulation: sandstone, white, very fine grain,
moderately sorted, angular to sub angular,
scattered white clay, estimated porosity 14% and
low visible permeability. No visible stain,
slightly spotty, pale yellow fluorescence, weak
milky yellow cuts. Sample description after 40 min.
circulation: same as above, vf to fine grained,
est 13-16% porosity, very light brown stain,
mostly very pale yellow fluorescence, 25% with even
bright yellow fluorescence & good streaming yellow
cut. Call for DST #1, interval 4616'-4631'.
SURVEYS: None
DC: \$350
CC: \$113656

ORIGINAL

15-063-21454-00-00

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 5-2-93

TD: 4750'

PO: Tripping out for logs

DRILLING DAY: 8

MUD REPORT: Vis. 54, Wt. 9.4, W.L. 10.2

RECAP: DST #1 times: IF= 15min, ISI= 30min, FF=60 min, FSI= 120min. DST #1 results: Opened with a strong blow, to bottom of bucket in 5 min. Second open had strong blow, to bottom of bucket in 6-1/2 min. Pipe recovery: 70 feet muddy water w/ oil specks, 1240 feet of gas cut salt water w/ oil specks. Pressures: IH 2261 psig, FH 2248 psig, IF 46-182 psig, FF 218-597 psig, ISI 1146 psig, FSI 1135 psig. BHT 128° F, Chlorides of 29000 ppm. Sample chamber: 2300 cc of salt water @ 600 psig. Lay down test tools, TIH with rotary tools. Drill sand, shale, shale and limestone to 4679'. Morrow top @ 4649'. GOOD SHOWS 4656'- 4679' "A" Morrow 4656'-4674', drilling break from 3 min/ft to 1-1/2 min/ft with 6 feet of 1/2 min/ft. DESCRIPTION: Sandstone, offwhite, fine grained, clay filled, 9-10% porosity, scattered black tarry stain, spotty pale fluorescence, milky cut, trace strong streaming cut. 4665-4674' DESCRIPTION: Same as above, very coarse, unconsolidated, poor sample recovery. Call for DST #2 Morrow "A" 4660'-4679' Flow times identical to DST #1. Recovered 90 feet of mud cut water. Lay down test tools, TIH with rotary tools, drill from 4679'-4750'.

SURVEYS: None
DC: \$ 350
CC: \$ 114006

ORIGINAL

15-063-21454-00-00

DRILLING

Leo #64-16-31
SE/SE/SE Sec. 31
T12S-R31W
Gove Co., Kansas

DATE: 5-3-93

TD: 4750'

PO: P&A well

DRILLING DAY: 9

MUD REPORT: none

RECAP: Loggers TD 4747'. Morrow "B" @ 4681-4698'
DESCRIPTION; sandstone, white to clear, very fine
to fine grained, 10-12% porosity, 50% pale yellow
fluorescence, slow, weak milky cut. Mississippian
Top @ 4698' DESCRIPTION: Limestone, brown to dark
grey, very oolitic. Drilling break 4729-4739" from
3 min/ft to 1 min/ft. Poor to fair shows: Vuggy &
oolmoldic, mostly mineral fluorescence, good milky
cuts, no visible stain. TOOH for logs, run DIL,
CND, and BHC. Loggers TD 4747'. Call for plugging
orders. TIH w/ open ended drill pipe, rig up Allied
Cementers and place the following 65/35 pozmix
plugs w/ 6% gel, 2#/sk flocele. At 40' 10 sks, @
270' 40 sks, @ 1650' 100 sks, @ 2485' 25 sks, 15
sks in rathole. Job complete @ 2345 hrs on 5-2-93.

SURVEYS: None

DC: \$ 350

CC: \$ 114356

ORIGINAL

EMPHASIS OIL OPERATIONS
A Division of N-B Company, Inc.
P. O. BOX 506
RUSSELL, KS 67665

ORIGINAL

API# 15-063-21454-0000

DRILLERS LOG

OPERATOR: Diversified Operating Corporation
1675 Larimer St., Suite 850
Denver, CO 80202

Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Leo

WELL #64-16-31

LOCATION: SE SE SE
Section 31-12S-31W
Gove County, Kansas

LOGGERS TOTAL DEPTH: 4747'

ROTARY TOTAL DEPTH: 4750'

COMMENCED: 4/24/93

CASING: 8-5/8" @ 222' w/140 sks cement

ELEVATION: 2967' K.B.

COMPLETED: 5/2/93

STATUS: Dry Hole

DEPTHS & FORMATIONS

(All measurements from K.B.)

Sand	1502'	Heebner	3458'
Shale	1540'	Lansing-Kansas City	4012'
Sand	2170'	Base Kansas City	4307'
Shale	2250'	Cherokee	4525'
Anhydrite	2474'	Mississippi	4694'
Shale	2498'	R.T.D.	4750'
Topeka	3732'		

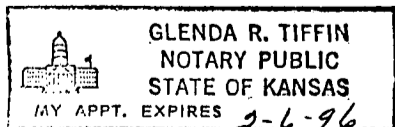
STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

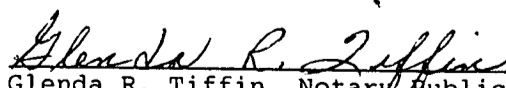
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me on May 3, 1993.

My commission expires: February 6, 1996.




Glenda R. Tiffin, Notary Public

15-063-21454-00-00

DAILY DRILLING REPORT

BOX 800
TULSA OK 74101

CONTRACTOR

Emphasis

DATE

5-3-93

COMPANY

Diversified

LEASE

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

Greene

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Don Owen	8
						EM Douglas Kay	8
						H Shannon Stinemeter	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		190 SX 60/NO PER 6 7/8 Gal			
@	FT.	1st Flood Per Ex					
DEG. OFF				50T DRLR		Syl Bame	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	25 SX 2485	WEIGHT		DRILLING		SIZE D. P.	
SIZE	100 SX 1415	VISC.		CORING		SIZE COLL.	
MAKE	HO SX 270	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	10 SX HO	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	15 SX Rat Ho	PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 6:00 to 11:45 Help lay down pipe 11:45 to 2:00 Tear down Plug down @ 11:45

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM	
						EM	
						H	
SLOPE TEST		ACCIDENT: - (GIVE NAME)		2			
@	FT.						
DEG. OFF							

ORIGINAL

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM	
						EM	
						H	
SLOPE TEST		ACCIDENT: - (GIVE NAME)		3			
@	FT.						
DEG. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS:

Jack D. Fox

15-063-~~255~~ 21454-00-00

DAILY DRILLING REPORT

WALTON 43 BOX 800 TULSA OK 74101

CONTRACTOR

Emphasis

DATE

5-2-93

COMPANY

Diversified

LEASE

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

Grave

STATE

KS

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
4679	4750	Lime	70	110000	900	DM	Don Owen	8
	RTD					EM	Douglas Lang	8
						H	Shannon Stinemetz	8

SLOPE TEST	ACCIDENT: - (GIVE NAME)					H		
@	FT.							
DEG. OFF								

1
50+ DRLR Sy/Rome 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	75 9.4	DRILLING	3	SIZE D. P.	12-9-1
SIZE	7 7/8	VISC.	46-48-54	CORING	4	SIZE COLL.	
MAKE	527 CB	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN	8 1/4	MTL. ADDED (REMARKS)		COTIME	1 3/4	TOTAL	FT.

REMARKS: 11:00 TO 11:15 key down tool 11:15 TO 11:15 IN W/ BIT 11:15 TO 2:00 CEH 2:00 TO 5:15
Drill 5:15 TO 4:15 CFSE 4750 4:15 TO 7:00 COF/Log

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
4250						DM	Anthony Pwieger	8
		loggers TD 4747				EM	Tony Rogers	8
						H	Cris Felder	8

SLOPE TEST	ACCIDENT: - (GIVE NAME)					H		
@	FT.							
DEG. OFF								

2
100+ DRLR Gary Churd 8
ORIGINAL

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT	9.4	DRILLING		SIZE D. P.	
SIZE		VISC.	54	CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.	10.4	OTHER	NOL. 2 1/2	JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP	2	COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		Logging	3 1/2	TOTAL	FT.

REMARKS: 7:00-9:00 Out of hole for log 9:00-12:00 logging 12:00-2:30 Wait on loggers
2:30-3:00 Logging

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
						DM	Dave Glassman	8
						EM	Chris Felder	8
						H	Ben Bickar	8

SLOPE TEST	ACCIDENT: - (GIVE NAME)					H		
@	FT.							
DEG. OFF								

3
3-6:45 (4.75) 100+ DRLR Jimmy Harrell 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00-5:45 Logging 5:45 6:45 2" Bit 6:45 8:15 Lay Down Pipe
8:15-9:15 1" Plugging Stands 9:15-11:00 Lay Down plugging stands
& Plug

Jack B. Fr

15-063-21454-00-00

DAILY DRILLING REPORT

NEW 43 BOX 800 TULSA OK 74101

CONTRACTOR

Emphasis

DATE

5-1-73

COMPANY

Diversified

LEASE

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

Grove

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4631						DM Don Owen	8
						EM Douglas Lang	8
						H Shannon Stinemetz	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)		DST #1 (4616-4631) 15-			
3 @ 4631	FT.	30-60-120		50+ DRLR Syl Plame			8
DEG. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING		SIZE D. P.	
SIZE	7 3/8	VISC.		CORING		SIZE COLL.	
MAKE	527 CB	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		COTIME	8	TOTAL	FT.

REMARKS: 11:00 TO 12:15 CDW/BIT 12:15 TO 12:30 Pickup Tool 12:30 TO 2:15 Inw/Tool 2:15 TO 4:00 DBW/TEST 4:00-7:00 Pull Test

Stop Short 656

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4631	4679	Lime & Shale	70	40000	900	DM Anthony Phlieger	8
						EM Tony Rogers	8
						H Chris Finnessy	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)		DST #1 - 1310' ft gassy salt water			
@	FT.	w/ oil spms		100+ DRLR Gary Chard			8
DEG. OFF		ORIGINAL					

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	95 96	DRILLING	1 1/2	SIZE D. P.	20 gel
SIZE	7 1/8	VISC.	45 45	CORING	1/4	SIZE COLL.	1 cavity
MAKE	527CB	WTR. LOSS-C.C.	10.4	OTHER	CFS	JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN	83 1/2	MTL. ADDED (REMARKS)		DST	4 1/2	TOTAL	FT.

REMARKS: 7:00-8:00 out of hole w tool 8:00-8:30 Tear Down tool 8:30-10:15 In hole w Bit Break circ 10:15-11:00 CTCH 11:00-12:30 Drg 12:30-1:30 CFS @ 4679 1:30-3:00 out of Hole w Bit For DST #2

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4679						DM Dave Glassman	8
						EM Chris Felder	8
						H Ben Bickler	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)		3			
@	FT.			100+ DRLR Jimmy Harrell			8
DEG. OFF							

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		TOTAL		TOTAL	FT.

REMARKS: 3:00 3:30 out w/ Bit 3:30 3:45 Makeup Tool 3:45-5:15 In Tool 5:15 9:00 DST #2 @ 4660-4679 Run 15-30-20-120 9:00 10:45 out w/ Tool 10:45 11:00 Back down Tool

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APPROVED

Jack D. Fox

TOOL PUSHER

15-063-21454-00-00

DAILY DRILLING REPORT

NEW 43 BOX 900 TULSA OK 74101

CONTRACTOR

Emphasis

DATE

11-30-73

COMPANY

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LEASE

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

STATE

D. P. STRING NO.

SIZE

Barco

Ks

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4357	4445	Shale + lime	70	40000	900	DM Don Owen	8
						EM Douglas Lang	8
						H Shannon Stinemore	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@	1451	FT.					
DEG. OFF							
						50+ DRLR Syl Rome	8

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3		WEIGHT	4447 47	DRILLING	7 1/4	SIZE D. P.	
SIZE	7 3/8		VISC.		CORING	1/2	SIZE COLL.	
MAKE	527CB		WTR. LOSS-C.C.	92 9.0	OTHER		JTS. D. P.	FT.
SERIAL NO.	73758		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838		PH.		TRIP		COLLARS	FT.
HOURS RUN	72 1/2		MTL. ADDED (REMARKS)		ScRig	1/4	TOTAL	FT.

REMARKS: 11:00 TO 11:45 Drill 11:45 TO 12:00 ScRig 12:00 TO 7:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4465	4582	Shale + Lime	70	40000	900	DM Anthony Phlieger	8
						EM Tony Rogers	8
						H Chris Finnesy	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@		FT.					
DEG. OFF							
						100+ DRLR Gary Chard	8

ORIGINAL

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3		WEIGHT	9.3 9.5 9.5	DRILLING	7 1/4	SIZE D. P.	1/2 caustic
SIZE	7 7/8		VISC.	48 46 42	CORING	1/4	SIZE COLL.	1/2 Lignite
MAKE	527CB		WTR. LOSS-C.C.	92 9.6 9.6	OTHER	1/2	JTS. D. P.	FT.
SERIAL NO.	73758		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838		PH.		TRIP		COLLARS	FT.
HOURS RUN	79 3/4		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 7:00-8:30 Drg. 8:30-8:45 rig ✓ 8:45-3:00 Drg.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4582	4631	Lime, shale	70	40,000	900	DM Dave Glassman	8
						EM Chris Felder	8
						H Ben Bicker	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@		FT.					
DEG. OFF							
						100+ DRLR Jimmy Harrell	8

BIT AND COREHEAD RECORD			MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3		WEIGHT	95	DRILLING	2 1/4	SIZE D. P.	
SIZE	7 1/8		VISC.	46	CORING	1/4	SIZE COLL.	
MAKE	527CB		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	73758		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838		PH.		TRIP	2 3/4	COLLARS	FT.
HOURS RUN	82		MTL. ADDED (REMARKS)		CFS	2 3/4	TOTAL	FT.

REMARKS: 3:00 5:30 Dng 1/4 Rig 5:30 7:15 CFS @ 4631 7:15 8:00 Short Trip 15 Stands 8:00 9:00 Cir After Short Trip 9:00 11:00 out For 1st 41

Jack D. Fro

15-063-21454-00-00

DAILY DRILLING REPORT

NEW 43 BOX 800 TULSA OK 74101

CONTRACTOR

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DATE

11-28-93

COMPANY

Diversified

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

Grave

STATE

Ks

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3300	3505	Shale	70	11000	900	DM Don Owen	8
						EM Douglas Long	8
						H Shannon Stinemetz	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.						
DEG. OFF						H	
				50+ DRLR		Syl Name	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.0	DRILLING	6 3/4	SIZE D. P.	15 Gel
SIZE	7 3/8	VISC.		CORING	3/4	SIZE COLL.	
MAKE	527CB	WTR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1938	PH.		TRIP		COLLARS	FT.
HOURS RUN	33	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 11:00 TO 11:15 Ser Rig 11:15 TO 7:10 Drill Loss in hr Jet #1 3200 + Flush

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3505	3650	Shale	70	40000	900	DM Anthony Phlieger	8
						EM Tony Rogers	8
						H Chris Finnesy	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.						
DEG. OFF						H	
				100+ DRLR		Gary Chard	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.0 91	DRILLING	5	SIZE D. P.	30 gel
SIZE	7 7/8	VISC.		CORING	1/4	SIZE COLL.	2 caustic
MAKE	527CB	WTR. LOSS-C.C.		OTHER		JTS. D. P.	2 lig. FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS	wash pipe 2	KELLY DOWN	2 Soda Ash
DEPTH IN	1938	PH.		TRIP		COLLARS	FT.
HOURS RUN	38	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 7:00-7:30 Drg. 7:30-9:30 Pull 5' stdr chg. swivel packing in hole 9:30-9:45 Jet #2 @ 3525 9:45-2:15 Drg. 2:15-2:45 Jet #1 @ 3649 + clean pits for mud up 2:45-3:00 Drg.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3650	3890	Shale	70	40,000	900	DM Dave Glassman	8
						EM Chris Felder	
						H Ben Bieker	
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.						
DEG. OFF						H	
				100+ DRLR		Jimmy Harrell	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	3.3	DRILLING	2	SIZE D. P.	25 Gel
SIZE	7 7/8	VISC.	40	CORING	1	SIZE COLL.	3 Hulls
MAKE	527CB	WTR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	soda Ash
SERIAL NO.	73758	FILTER CAKE		REPAIRS	1/2	KELLY DOWN	1 Caustic FT.
DEPTH IN	1838	PH.		TRIP	1/4	COLLARS	1 lig FT.
HOURS RUN	44	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00 11:00 Drg. w/ 1/4 Rig 1/2 Jet Displace Pump Screen 1/4

Jack D. Fry

15-063-21454-00-00

DAILY DRILLING REPORT

43 BOX 800 TULSA OK 74101

CONTRACTOR Emphasis	DATE 4-29-93
COMPANY Diversified	LEASE Orioo
DISTRICT	WELL NO. 1
COUNTY Grove	RIG NO. 8
STATE Ks	D. P. STRING NO.
	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
3890	4090	Shale + lime	70	40000	900	DM Don Owen	8
						EM Douglas Long	8
						H Shannon Stinemetz	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	35 40 44	DRILLING	7	SIZE D. P.	20 Gal
SIZE	7 1/4	VISC.	8.9	CORING	3A	SIZE COLL.	
MAKE	527CB	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN	5 1/4	MTL. ADDED (REMARKS)		Sec Rig	4	TOTAL	FT.

REMARKS: 11:00 TO 11:15 Drill 11:15 TO 11:30 Sec Rig 11:30 TO 7:00 Drill

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4090	4227	Shale + lime	70	40000	900	DM Anthony Phlieger	8
						EM Tony Rogers	8
						H Chris Finney	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.2 9.2 9.2	DRILLING	7 1/4	SIZE D. P.	
SIZE	7 7/8	VISC.	44 43 44	CORING	1/4	SIZE COLL.	
MAKE	527CB	WTR. LOSS-C.C.	9.2	OTHER	1/2	JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN	5 8/14	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 7:00-8:00 Drg. 8:00-8:15 Rig ✓ 8:15-3:00 Drg.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4227		Lime-shale	70	40,000	900	DM Dave Glassman	8
						EM Chris Felder	8
						H Ben Bixner	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	9.2	DRILLING	7	SIZE D. P.	1 Conave
SIZE	7 7/8	VISC.	51	CORING	3/4	SIZE COLL.	1 Rig
MAKE	527CB	WTR. LOSS-C.C.		OTHER	1/4	JTS. D. P.	FT.
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	1838	PH.		TRIP		COLLARS	FT.
HOURS RUN	6 5/14	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: 3:00 11:00 Drg 1/4 Rig

Jack D. Fr

15-062-21454-00-00

DAILY DRILLING REPORT

43 BOX 800 TULSA OK 74101

CONTRACTOR

DATE

COMPANY

LEASE

WELL NO.

RIG NO.

DISTRICT

COUNTY

STATE

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
2635	2950	Shale	70	35000	900	DM	Don Owen	8
						EM	Douglas Lony	8
						H	Shannon Steinmetz	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H		
@	FT.							
DEG. OFF								

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT	8.9	DRILLING	6 1/2	SIZE D. P.	30 Gel
SIZE	7 1/2	VISC.		CORING	1	SIZE COLL.	2 Soda Ash
MAKE	527 CB	WTR. LOSS.C.C.		OTHER	1/4	JTS. D. P.	2 LF
SERIAL NO.	73758	FILTER CAKE		REPAIRS		KELLY DOWN	2 Caust
DEPTH IN	1838	PH.		TRIP		COLLARS	2 1/2 Disks
HOURS RUN	19 1/2	MTL. ADDED (REMARKS)				TOTAL	in Frock Tank

REMARKS: 11:00 To 11:15 Set Rig 11:15 To 7:00 Drill Less'n by Jet @ 2870

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
2950	3026	Shale	70	40000	900	DM	Anthony Phlieger	8
						EM	Tony Rogers	8
						H	Chris Finney	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H		
@	FT.							
DEG. OFF								

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING	1 1/2	SIZE D. P.	10 gel
SIZE	7 1/8	VISC.		CORING	1/4	SIZE COLL.	1 line
MAKE	527 CB	WTR. LOSS.C.C.		OTHER	1/4	JTS. D. P.	
SERIAL NO.	73758	FILTER CAKE		REPAIRS	PUMP 2	KELLY DOWN	
DEPTH IN	1838	PH.		TRIP	4 1/2	COLLARS	
HOURS RUN	20	MTL. ADDED (REMARKS)				TOTAL	

REMARKS: 7:00-7:25 Rig ✓ 7:15-9:00 Drg. 9:00-11:30 Out of hole w Bit Bit Plugged Tighten cathead 11:30-1:30 chg liner thread pit side 1:30-3:00 in hole w Bit Jet #2 @ 2994

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.		NAME	HRS.
3026	3300	Shale	68/70	4000	900	DM	Dave Glassman	8
						EM	Chris Felder	
						H	Ben Bicken	
SLOPE TEST		ACCIDENT: - (GIVE NAME)				H		
@	FT.							
DEG. OFF								

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	3	WEIGHT		DRILLING	2 1/4	SIZE D. P.	20 Gel
SIZE	7 1/8	VISC.		CORING	1	SIZE COLL.	2 Soda Ash
MAKE	527 CB	WTR. LOSS.C.C.		OTHER	1/4	JTS. D. P.	2 Caustic
SERIAL NO.	73758	FILTER CAKE		REPAIRS	1/2	KELLY DOWN	2 lig
DEPTH IN	1838	PH.		TRIP		COLLARS	
HOURS RUN	24 1/4	MTL. ADDED (REMARKS)				TOTAL	

REMARKS: 3:00 11:00 Delg w 1/4 Rig 1/2 Jet #1 @ 3118 + Jet #2 @ 3211 Flush Hole

Jack D. Fe

15-063-21454-00-00

DAILY DRILLING REPORT

43 BOX 800 TULSA OK 74101

CONTRACTOR

Emphasis

DATE

4-26-93

COMPANY

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LEASE

Orion

WELL NO.

1

RIG NO.

8

DISTRICT

COUNTY

Grove

STATE

OK

D. P. STRING NO.

SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1830	1836	Shale + Sand	100	25000	800	Don Owen	8
1836	1847	Shale + Sand	85	30000	800	Douglas Hans	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				Shannon Stinemetz	8
1/2 @ 1836 FT.							
DEG. OFF							
					504 DRLR	Syl Pame	8

BIT AND COREHEAD RECORD			MUD RECORD			TIME RECORD			DRILL STEM RECORD		
RUN NO.	2	3	WEIGHT			DRILLING	1	SIZE D. P.			
SIZE	7 3/4	7 3/8	VISC.			CORING		SIZE COLL.			
MAKE	S&E	PH 52760	WTR. LOSS-C.C.			OTHER		JTS. D. P.			FT.
SERIAL NO.	1149433	73758	FILTER CAKE			REPAIRS	H 3/4	KELLY DOWN			FT.
DEPTH IN	224	1838	PH.			TRIP	2 3/4	COLLARS			FT.
HOURS RUN	9 3/4	3 1/4	MTL. ADDED (REMARKS)					TOTAL			FT.

REMARKS: 11:00 TO 11:15 Drill 11:00 TO 12:15 CO w/Bit S.S Strip Pipe 12:15 TO 5:00
 OK Oil Leak on Drawks Flush oil in Trons 5:00 TO 6:15 Fr w/Bit
 6:15 TO 7:00 Drill Strip sheet 1.01

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
1867	2280	Shale + Sand	70	35000	900	Anthony Phliegar	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				Tony Rogers	8
@ FT.						Chris Finnessy	8
DEG. OFF							
					100+ DRLR	Gary Chard	8

BIT AND COREHEAD RECORD			MUD RECORD			TIME RECORD			DRILL STEM RECORD		
RUN NO.	3		WEIGHT	8.7	9.0	9.1	DRILLING	6 1/4	SIZE D. P.		
SIZE	7 7/8		VISC.				CORING	conn	SIZE COLL.		
MAKE	527 CA		WTR. LOSS-C.C.				OTHER	rig 1/4	JTS. D. P.		FT.
SERIAL NO.	73758		FILTER CAKE				REPAIRS		KELLY DOWN		FT.
DEPTH IN	1838		PH.				TRIP		COLLARS		FT.
HOURS RUN	7		MTL. ADDED (REMARKS)				Jet	1/2	TOTAL		FT.

REMARKS: 7:00-7:15 Drg 7:15-7:30 rig 7:30-9:15 Drg. 9:15-9:30 Jet #1 @ 1940
 9:30-12:30 Drg. 12:30-12:45 Jet #2 @ 2124 12:45-3:00 Drg.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
2280	2635	Sand + shale	15/10	35000	900	Dave Glassman	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)				Chris Felder	8
@ FT.						Chris Finnessy	8
DEG. OFF							
					100+ DRLR	Jimmy Harrell	8

BIT AND COREHEAD RECORD			MUD RECORD			TIME RECORD			DRILL STEM RECORD		
RUN NO.	3		WEIGHT			DRILLING	5 3/4	SIZE D. P.	30 Gel		
SIZE	7 7/8		VISC.			CORING	1/2	SIZE COLL.	2 Caustic		
MAKE	527 C/B		WTR. LOSS-C.C.			OTHER	1/4	JTS. D. P.	2 Lig		FT.
SERIAL NO.	73758		FILTER CAKE			REPAIRS	1/4	KELLY DOWN	1/2 Drisac		FT.
DEPTH IN	1838		PH.			TRIP		COLLARS	2 Sock Ash		FT.
HOURS RUN	12 3/4		MTL. ADDED (REMARKS)				Drawers	1 1/4	TOTAL		FT.

REMARKS: 12:00-12:15 Drg w/ 1/4 Rig 1/4 Jet @ 2432
 12:00 oil in Drawworks - work on Drawworks
 8:00-11:00 Only

PRINTED IN U.S.A.

APPROVED

Jack D. Fox

TOOL PUSHER

15-063-21454-00-00

DAILY DRILLING REPORT

43 BOX 800 TULSA OK 74101

CONTRACTOR <i>Emphas is</i>	DATE <i>4-26-93</i>
LEASE <i>Orion</i>	WELL NO. <i>1</i>
COUNTY <i>Gore</i>	RIG NO. <i>8</i>
STATE <i>KS</i>	D. P. STRING NO.
SIZE	

COMPANY
Diversified Op Inc

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
224						DM <i>Don Owen</i>	8
						EM <i>Douglas King</i>	8
						H <i>Shannon Stinemetz</i>	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

60+ DRLR *Syl Rome* 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING	<i>Set Surface 2 1/2</i>	SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)		WOC	<i>5 1/2</i>	TOTAL	FT.

REMARKS: *11:00 to 1:30 COW/BIT + Set Surface 1:30 to 7:00 WOC. Change Daily Lin*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
224	930	<i>Shale</i>	100	25000	800	DM <i>Anthony Phlieger</i>	8
						EM <i>Tony Rogers</i>	8
						H <i>Chris Finney</i>	8
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

2 ORIGINAL
100+ DRLR *Gary Chard* 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	<i>2</i>	WEIGHT		DRILLING	<i>3 1/4</i>	SIZE D. P.	<i>15 gel</i>
SIZE	<i>7 1/8</i>	VISC.		CORING	<i>Conn 2</i>	SIZE COLL.	<i>16 Halls</i>
MAKE	<i>Sec.</i>	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	<i>449733</i>	FILTER CAKE		REPAIRS	<i>pump 1/4</i>	KELLY DOWN	FT.
DEPTH IN	<i>224</i>	PH.		TRIP		COLLARS	FT.
HOURS RUN	<i>3 1/4</i>	MTL. ADDED (REMARKS)		WOC	<i>2 1/2</i>	TOTAL	FT.

REMARKS: *7:00-9:30 WOC. 9:30-11:45 Drg. 11:45-12:00 chg. head pit side 12:00-3:00 Drg.*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
930	1830	<i>Sand. Shale</i>	100	2500	800	DM <i>Dave Glassman</i>	8
						EM <i>Chris Felder</i>	
						H <i>Ben Bicker</i>	
SLOPE TEST		ACCIDENT:-- (GIVE NAME)				H	
@	FT.					H	
DEG. OFF						H	

3 100+ DRLR *Jimmy Harrell* 8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	<i>3</i>	WEIGHT		DRILLING	<i>4 1/4</i>	SIZE D. P.	
SIZE	<i>7 1/8</i>	VISC.		CORING	<i>Conn 3/4</i>	SIZE COLL.	
MAKE	<i>Sec.</i>	WTR. LOSS-C.C.		OTHER	<i>Rig 1/4</i>	JTS. D. P.	FT.
SERIAL NO.	<i>449733</i>	FILTER CAKE		REPAIRS	<i>Jet 1/2</i>	KELLY DOWN	FT.
DEPTH IN	<i>224</i>	PH.		TRIP	<i>Draworks 1/4</i>	COLLARS	FT.
HOURS RUN	<i>9 1/2</i>	MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: *3:00/1:00 Drg. 1/4 Rig 1/4 Jet #1 @ 1127 Flush Hole 1/4 Jet #2 @ 1534 Flush Hole 1/4 Draworks*

APPROVED
Jack B. Fry

15-063-21454-00-00

DAILY DRILLING REPORT
 Form 43 BOX 800 TULSA OK 74101

CONTRACTOR Emphasis	DATE 4-24-93
COMPANY Diversified Op. Corp.	WELL NO. 1
LEASE ORION	RIG NO. 8
DISTRICT Cove	D. P. STRING NO.
COUNTY Iks.	SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Don Owen	8
						EM Douglas Long	8
						H Shannon Stinemetz	8
SLOPE TEST		ACCIDENT: - (GIVE NAME)		1		H	
@	FT.						
DEG. OFF				307 DRLR Sgt Rome			8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Dig Celler & Help Rig UP

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
						DM Anthony Phlieger	11
						EM Tony Rogers	11
						H Chris Finney	11
SLOPE TEST		ACCIDENT: - (GIVE NAME)		2		H ORIGINAL	
@	FT.						
DEG. OFF				1007 DRLR Gary Chard			11

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

REMARKS: Move off old loc. & move to new Rig up

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
0	224					DM Dave Glassman	8
						EM Chris Felder	
						H Ben Bichter	
SLOPE TEST		ACCIDENT: - (GIVE NAME)		3		H	
@	FT.						
DEG. OFF				1007 DRLR Jimmy Harrell			

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING	1 3/4	SIZE D. P.	25 Gal
SIZE		VISC.		CORING		SIZE COLL.	8 Hulls
MAKE		WTR. LOSS-C.C.		OTHER		JTS. D. P.	3 P. Home
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN		PH.		TRIP		COLLARS	FT.
HOURS RUN		MTL. ADDED (REMARKS)				TOTAL	FT.

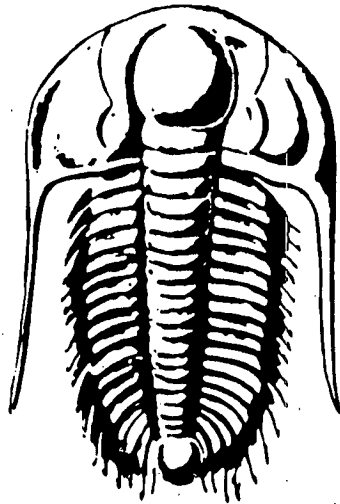
REMARKS: 3:00-4:30 Rig up & mix mud 4:30-7:15 Dig Bath hole
 7:15-10:30 Dig 12 1/4 Hole 10:30-11:00 Cur Tail Celler

Jack D. Fro

ORIGINAL

API# 15-063-21454-00-00

ORIGINAL



**TRILOBITE
TESTING, L.L.C.**

TEST REPORT

TRILOBITE TESTING, L.L.C. ORIGINAL

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data API #15-063-21454-0000

Well Name ORION #1 Test No. 1 Date 5/1/93
Company DIVERSIFIED OPERATING CORP Zone CHER/MORROW
Address 1675 LARIMER ST #850 DENVER CO 80202 Elevation 2967
Co. Rep./Geo. MATHEW GOOLSBY Cont. EMPHASIS #8 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 12S Rge. 31W Co. GOVE State KS

Interval Tested	<u>4616-4631</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>15</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>4611</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>4616</u>	Mud Wt.	<u>9.5</u> lb/Gal.
Total Depth	<u>4631</u>	Viscosity	<u>46</u> Filtrate <u>9.6</u>

Tool Open @ 2:27 AM Initial Blow STRONG BLOW - BOTTOM OF BUCKET IN 5 MINUTES

Final Blow STRONG BLOW - BOTTOM OF BUCKET IN 6 1/2 MINUTES

Recovery - Total Feet 1310 Flush Tool? NO

Rec. <u>70</u>	Feet of	<u>MUDDY WATER WITH OIL SPECKS 75%WATER/25%MUD</u>
Rec. <u>1240</u>	Feet of	<u>GASSY SALT WATER WITH OIL SPECKS 5%GAS/95%WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT 128 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.25 @ 75 °F Chlorides 29000 ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2269.3 PSI AK1 Recorder No. 13278 Range 4400

(B) First Initial Flow Pressure 53.4 PSI @ (depth) 4628 w / Clock No. 22993

(C) First Final Flow Pressure 189.7 PSI AK1 Recorder No. 10248 Range 4400

(D) Initial Shut-in Pressure 1153.9 PSI @ (depth) 4623 w / Clock No. 30410

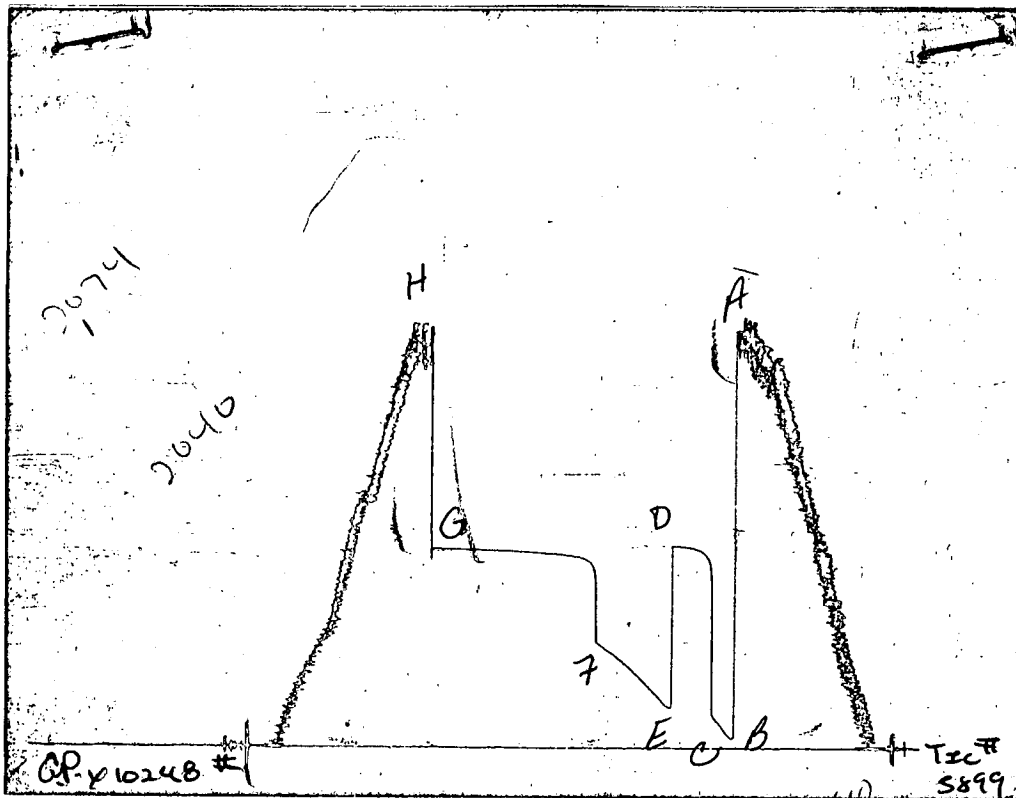
(E) Second Initial Flow Pressure 226.1 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 603.4 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1142.8 PSI Initial Opening 15 Final Flow 60

(H) Final Hydrostatic Mud 2256.7 PSI Initial Shut-in 30 Final Shut-in 120

ORIGINAL



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2261	2269.3
(B) FIRST INITIAL FLOW PRESSURE	46	53.4
(C) FIRST FINAL FLOW PRESSURE	182	189.7
(D) INITIAL CLOSED-IN PRESSURE	1146	1153.9
(E) SECOND INITIAL FLOW PRESSURE	218	226.1
(F) SECOND FINAL FLOW PRESSURE	597	603.4
(G) FINAL CLOSED-IN PRESSURE	1135	1142.8
(H) FINAL HYDROSTATIC MUD	2248	2256.7

FLUID SAMPLER DATA

15-063-21454-0000

Ticket No.: 5899 Date: 5/1/93
 Company: DIVERSIFIED OPERATING CORP
 Lease: ORION #1 Test No.: 1
 County: GOVE Sec.: 31 Twp.: 12S Rng.: 31W

ORIGINAL

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas TRACE
 Oil TRACE
 Mud
 Water 2300
 Other
 Pressure 600
 TOTAL 2300

Chlorides 2000
 Resistivity 4.23 ohms@ 60 F
 Viscosity 46
 Mud Wt. 9.5
 Filtrate 9.6
 Other

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity 0.24 ohms@ 75 F
 Chlorides 29500 ppm.
 Gravity corrected @60F

TOP
 Resistivity 0.27 ohms@ 74 F
 Chlorides 27000 ppm

MIDDLE
 Resistivity ohms@ F
 Chlorides ppm

BOTTOM
 Resistivity 0.25 ohms@ 75 F
 Chlorides 29000 ppm

15-063-21454-00-00

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

ORIGINAL

Ticket No. 5899 Date 5-1-93

Company Name DIVERSIFIED OPERATING CORP.

Lease ORION #1 Test No. 1

County COVE Ks. Sec. 31 Twp. 12^S Rng. 31^W

SAMPLER RECOVERY

Gas Trace ML

Oil Trace ML

Mud ~ ML

Water 2,300 ML

Other ~ ML

Pressure 600 PSI

Total 2,300 ML

PIT MUD ANALYSIS

Chlorides 2,000 ppm.

Resistivity 4.23 ohms @ 60° F

Viscosity 46

Mud Weight 9.5

Filtrate 9.6 cc.

Other _____

SAMPLER ANALYSIS

Resistivity 0.24 ohms @ 75° F

Chlorides 29,500 ppm.

Gravity N.A. corrected @ 60 F

PIPE RECOVERY

TOP 70' of M.W. @ oil spec.

Resistivity 0.27 ohms @ 74 F

Chlorides 27,000 ppm.

MIDDLE
Resistivity ~~_____~~ ohms @ _____ F

Chlorides ~~_____~~ ppm.

BOTTOM 1,240' Gassy Water @ oil spec.

Resistivity 0.25 ohms @ 75 F

Chlorides 29,000 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

21454-00-00
15-063-~~8~~

Test Ticket

ORIGINAL No 5899

Well Name & No. ORION #1 Test No. 1 Date 5-1-93
 Company DIVERSIFIED OPERATING CORP. Zone Tested CHEROKEE / MORROW
 Address 1675 LARIMER ST. SUITE 850 DENVER CO. 80202 Elevation 2967 K.B.
 Co. Rep./Geo. MATHEW GOOLSBY Cont. EMPHASIS OIL OPER. #8 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 12^S Rge. 31^W Co. GOVE State KS.
 No. of Copies _____ Distribution Sheet Yes _____ No _____ Turnkey Yes _____ No _____ Evaluation _____

Interval Tested 4616 - 4631' Drill Pipe Size 4 1/2" X.H.
 Anchor Length 15' Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 4611' Hole Size - 7 7/8" Rubber Size - 6 3/4"
 Bottom Packer Depth 4616' Wt. Pipe I.D. - 2.7 Ft. Run NONE
 Total Depth 4631' Drill Collar - 2.25 Ft. Run NONE
 Mud Wt. 9.5 lb/gal. Viscosity 46 Filtrate 9.6 cc.
 Tool Open @ 2:27 A.M. Initial Blow Strong below. (letup of bucket in 5 mins.)
 Final Blow Strong below. (letup of bucket in 6 1/2 mins.)

Recovery - Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>1,310'</u>	<u>NONE</u>	<u>No</u>
Rec. <u>70</u> Feet Of <u>M.W. @ oil specs.</u>	%gas _____ %oil <u>75</u> %water <u>25</u> %mud _____	
Rec. <u>1,240</u> Feet Of <u>Gas salt water</u>	%gas <u>5</u> %oil <u>95</u> %water <u>~</u> %mud _____	
Rec. _____ Feet Of <u>@ oil specs.</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT 128 °F Gravity N.A. °API @ ~ °F Corrected Gravity N.A. °API
 RW 0.25 @ 75 °F Chlorides 29,000 ppm Recovery Chlorides 2,000 ppm System
 (A) Initial Hydrostatic Mud 2261 PSI AK1 Recorder No. 13278 Range 4400
 (B) First Initial Flow Pressure 46 PSI @ (depth) 4628' w/Clock No. 22993
 (C) First Final Flow Pressure 182 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 1146 PSI @ (depth) 4623' w/Clock No. 30410
 (E) Second Initial Flow Pressure 218 PSI AK1 Recorder No. ~ Range ~
 (F) Second Final Flow Pressure 597 PSI @ (depth) ~ w/Clock No. ~
 (G) Final Shut-In Pressure 1135 PSI Initial Opening 15 Test 600⁰⁰
 (H) Final Hydrostatic Mud 2248 PSI Initial Shut-In 30 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint _____
 Final Shut-In 120 Straddle _____
 Circ. Sub _____
 Sampler 200⁰⁰
 Extra Packer _____
 Other _____

Approved By M. Roach
 Our Representative Craig P. [Signature]

TOTAL PRICE \$ 800⁰⁰

15-063-21454-00-00

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Drill-Stem Test Data

Well Name ORION #1 Test No. 2 Date 5/1/93
 Company DIVERSIFIED OPERATING CORP Zone MORROW SD
 Address 1675 LARIMER ST #850 DENVER CO 80202 Elevation 2967
 Co. Rep./Geo. MATHEW GOOLSBY Cont. EMPHASIS #8 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 12S Rge. 31W Co. GOVE State KS

Interval Tested <u>4660-4679</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>19</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>4655</u>	Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth <u>4660</u>	Mud Wt. <u>9.5</u> lb/Gal.
Total Depth <u>4679</u>	Viscosity <u>45</u> Filtrate <u>10.4</u>

Tool Open @ 5:20 PM Initial Blow WEAK BLOW 1 - 3 1/2" IN WATER
 Final Blow WEAK TO FAIR BLOW 1 - 6" IN WATER

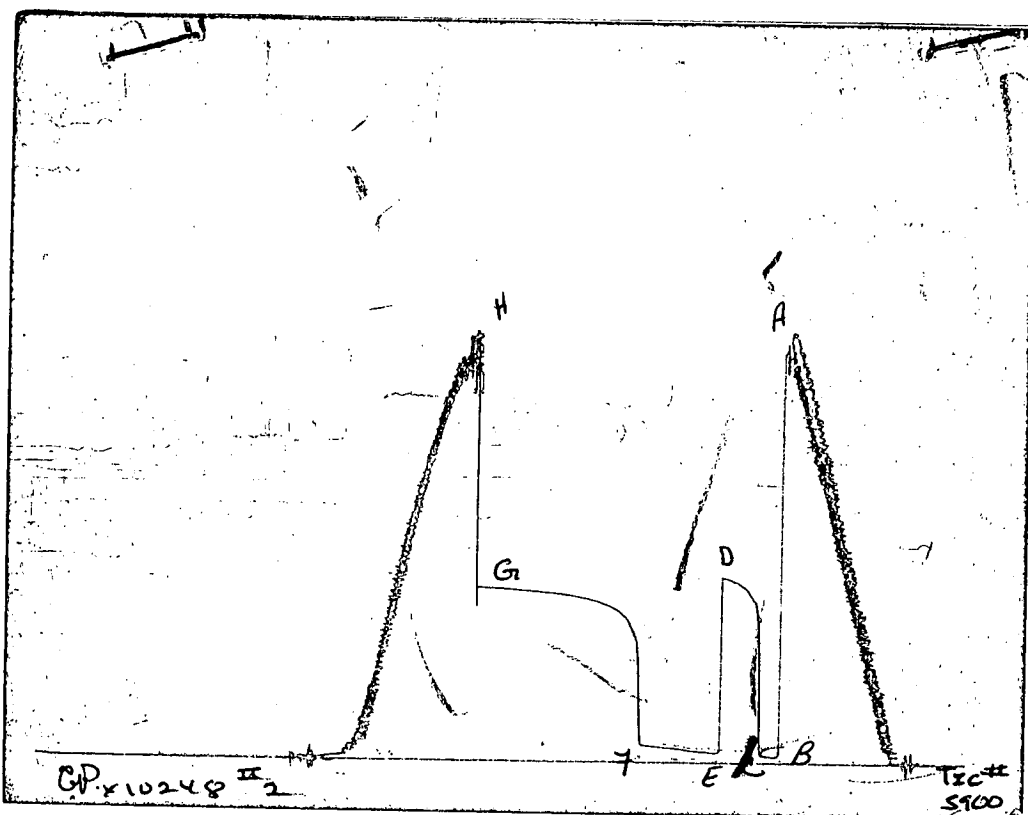
Recovery - Total Feet 190 Flush Tool? NO

Rec. <u>190</u> Feet of <u>MUDDY WATER 78%WATER/22%MUD</u>
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 129 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.14 @ 77 °F Chlorides 59000 ppm Recovery Chlorides 2400 ppm System

(A) Initial Hydrostatic Mud <u>2294.6</u> PSI	AK1 Recorder No. <u>13278</u>	Range <u>4400</u>
(B) First Initial Flow Pressure <u>29.4</u> PSI	@ (depth) <u>4676</u>	w / Clock No. <u>22993</u>
(C) First Final Flow Pressure <u>41.9</u> PSI	AK1 Recorder No. <u>10248</u>	Range <u>4400</u>
(D) Initial Shut-in Pressure <u>1056.7</u> PSI	@ (depth) <u>4671</u>	w / Clock No. <u>30410</u>
(E) Second Initial Flow Pressure <u>51.6</u> PSI	AK1 Recorder No. _____	Range _____
(F) Second Final Flow Pressure <u>96.2</u> PSI	@ (depth) _____	w / Clock No. _____
(G) Final Shut-in Pressure <u>975.1</u> PSI	Initial Opening <u>15</u>	Final Flow <u>60</u>
(H) Final Hydrostatic Mud <u>2256.7</u> PSI	Initial Shut-in <u>30</u>	Final Shut-in <u>120</u>

Our Representative GARY PEVOTEAUX



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2287	2294.6
(B) FIRST INITIAL FLOW PRESSURE	23	29.4
(C) FIRST FINAL FLOW PRESSURE	34	41.9
(D) INITIAL CLOSED-IN PRESSURE	1045	1056.7
(E) SECOND INITIAL FLOW PRESSURE	44	51.6
(F) SECOND FINAL FLOW PRESSURE	85	96.2
(G) FINAL CLOSED-IN PRESSURE	968	975.1
(H) FINAL HYDROSTATIC MUD	2249	2256.7

FLUID SAMPLER DATA

15-063-21454-0000

Ticket No.: 5900 Date: 5/1/93
 Company: DIVERSIFIED OPERATING CORP
 Lease: ORION #1 Test No.: 2
 County: GOVE Sec.: 31 Twp.: 12S Rng.: 31W

ORIGINAL

SAMPLER RECOVERY

Gas
 Oil
 Mud 230
 Water 2070
 Other
 Pressure 80
 TOTAL 2300

PIT MUD ANALYSIS

Chlorides 2400
 Resistivity 3.69 ohms@ 64 F
 Viscosity 45
 Mud Wt. 9.5
 Filtrate 10.4
 Other

SAMPLER ANALYSIS

Resistivity 0.13 ohms@ 77 F
 Chlorides 62000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.14 ohms@ 77 F
 Chlorides 59000 ppm

15-063-21454-00-00

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

ORIGINAL

Ticket No. 5900 Date 5-1-93

Company Name DIVERSIFIED OPERATING CORP.

Lease ORION #1 Test No. 2

County GOVE Ks. Sec. 31 Twp. 12^S Rng. 31^W

SAMPLER RECOVERY

Gas NONE ML

Oil NONE ML

Mud 230 ML

Water 2070 ML

Other ~ ML

Pressure 80 PSI

Total 2,300 ML

PIT MUD ANALYSIS

Chlorides 2,400 ppm.

Resistivity 3.69 ohms @ 64 F

Viscosity 45

Mud Weight 9.5

Filtrate 10.4 cc

Other _____

SAMPLER ANALYSIS

Resistivity 0.13 ohms @ 77 F

Chlorides 62,000 ppm.

Gravity N.A. corrected @ 60 F

PIPE RECOVERY

TOP Resistivity _____ ohms @ _____ F

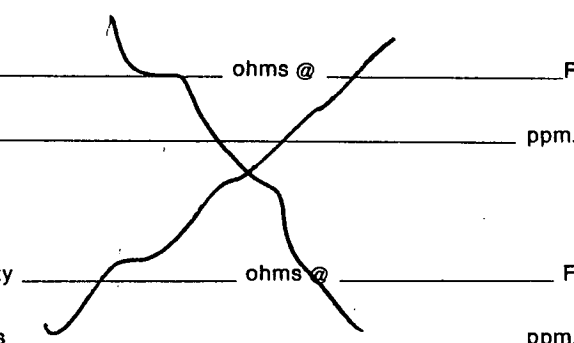
Chlorides _____ ppm.

MIDDLE Resistivity _____ ohms @ _____ F

Chlorides _____ ppm.

BOTTOM Resistivity 0.14 ohms @ 77 F

Chlorides 59,000 ppm.



190' of Muddy Water

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

15-063-21454-00-00

Test Ticket

ORIGINAL

 No 5900

Well Name & No. ORION #1 Test No. 2 Date 5-1-93
 Company DIVERSIFIED OPERATING CORP. Zone Tested MORROW SD.
 Address 1615 LARIMER ST. SUITE 850 DENVER CO. 80202 Elevation 2967 K.B.
 Co. Rep./Geo. MATHEW GODLSBY Cont. EMPHASIS OIL OPER. #8 Est. Ft. of Pay _____
 Location: Sec. 31 Twp. 12S Rge. 31W Co. GOVE State KS.
 No. of Copies _____ Distribution Sheet Yes _____ No Turnkey Yes _____ No Evaluation _____

Interval Tested 4660 - 4679' Drill Pipe Size 4 1/2" X.H.
 Anchor Length 19' Top Choke - 1" Bottom Choke - 3/4"
 Top Packer Depth 4655' Hole Size - 77/8" Rubber Size - 63/4"
 Bottom Packer Depth 4660' Wt. Pipe I.D. - 2.7 Ft. Run NONE
 Total Depth 4679' Drill Collar - 2.25 Ft. Run NONE
 Mud Wt. 9.5 lb/gal. Viscosity 45 Filtrate 10.4 cc.
 Tool Open @ 5:20 P.M. Initial Blow Weak below (1-3 1/2" in H₂O)
 Final Blow Weak to fair below (1-6" in H₂O)

Recovery - Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>190'</u>	<u>NONE</u>	<u>NO</u>
Rec. <u>190</u> Feet Of <u>M.W.</u>	% gas	% oil <u>78</u> % water <u>22</u> % mud
Rec. _____ Feet Of _____	% gas	% oil _____ % water _____ % mud
Rec. _____ Feet Of _____	% gas	% oil _____ % water _____ % mud
Rec. _____ Feet Of _____	% gas	% oil _____ % water _____ % mud
Rec. _____ Feet Of _____	% gas	% oil _____ % water _____ % mud

BHT 129 °F Gravity N.A. °API @ _____ °F Corrected Gravity N.A. °API
 RW 0.14 @ 77 °F Chlorides 59,000 ppm Recovery Chlorides 2,400 ppm System

(A) Initial Hydrostatic Mud 2287 PSI AK1 Recorder No. 13278 Range 4400
 (B) First Initial Flow Pressure 23 PSI @ (depth) 4676' w/Clock No. 22993
 (C) First Final Flow Pressure 34 PSI AK1 Recorder No. 10248 Range 4400
 (D) Initial Shut-In Pressure 1045 PSI @ (depth) 4671' w/Clock No. 30410
 (E) Second Initial Flow Pressure 44 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 85 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 968 PSI Initial Opening 15 Test 600°
 (H) Final Hydrostatic Mud 2249 PSI Initial Shut-In 30 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 60 Safety Joint _____
 Final Shut-In 120 Straddle _____
 Circ. Sub _____
 Sampler 200°

Approved By M. Stealy
 Our Representative Cary Pwateaux

Extra Packer _____
 Other _____
 TOTAL PRICE \$ 800.00