

COPY

STATE OF KANSAS
SIDE ONE

CONFIDENTIAL

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

API NO. 15- 119-20,821 400-00

County Meade

App. N/2 SW SW Sec. 15 Twp. 34S Rge. 26 East West

Operator: License # 30444

496 Ft. North from Southeast Corner of Section

Name: Charter Production Company

3687 Ft. West from Southeast Corner of Section

Address 224 E. Douglas - Suite 400

(NOTE: Locate well in section plat below.)

Lease Name Allison Well # 1-15

City/State/Zip Wichita KS 67202

Field Name McKinney

Purchaser: Waiting on pipeline

Producing Formation Morrow

Operator Contact Person: Robert C. Spurlock

Elevation: Ground 2261 KB 2274

Phone (316) 264-2808

Total Depth 6100 PBDT 6052

Contractor: Name: Eagle Drilling, Inc.

License: 5380

Wellsite Geologist: Doug Davis, Jr.

Designate Type of Completion

New Well Re-Entry Workover
 Oil SWD Temp Prod.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If ~~CMO~~ old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

12/28/90 01/07/91 01/31/91

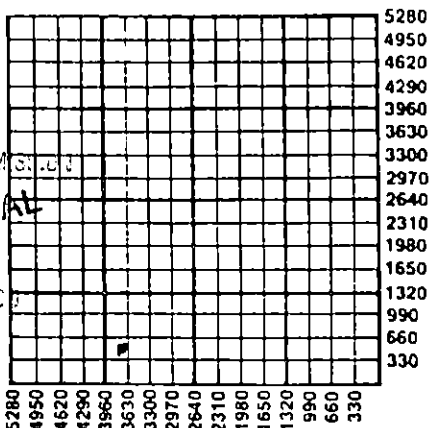
Spud Date Date Reached TD Completion Date

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MAR 26 1993

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2-8-91



Amount of Surface Pipe Set and Cemented at 605 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.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Robert C. Spurlock

Title Robert C. Spurlock, President Date 02/06/91

Subscribed and sworn to before me this 6th day of February, 19 91.

Notary Public Debra Raggio

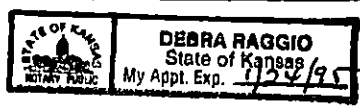
Date Commission Expires 01/24/95

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received

Distribution

KCC SWD/Rep NGPA
 KGS Plug Other (Specify)



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SIDE TWO

Operator Name Charter Production Company Lease Name Allison Well # 1-15

Sec. 15 Twp. 34S Rge. 26 East West
County Meade

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.)

Formation Description
 Log Sample
Name Top Bottom

SEE ATTACHED SHEET.

SEE ATTACHED SHEET.

PLEASE KEEP ALL INFORMATION CONFIDENTIAL.

CASING RECORD producing New Used surface
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	25	605	common	100	
production	7 7/8	4 1/2	10.5	6099	60-40 poz	125	10% salt; 3/4% CD-31

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	5872-82		

TUBING RECORD Size 2 3/8 Set At 5883 Packer At _____ Liner Run Yes No

Date of First Production WOPL Producing Method Flowing Pumping Gas Lift Other (Explain)
Estimated Production Per 24 Hours Oil 40 Bbls. Gas 1900 Mcf Water 0 Bbls. Gas-Oil Ratio 47,500 Gravity 71.2

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

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Charter Production Company
 Allison #1-15
 496' FSL 3687' FEL
 Section 15-34S-26W
 Meade County, Knasas
 ACO-1
 Page 2

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DRILL STEM TESTS:

DST #1 5374'-5404'; 30-60-60-60. Rec. 270' gas in pipe, 50' slightly oil & gas cut mud (5% oil, 3% oil, 92% mud). IHSP 2553; FHSP 2533; IFP 20-20; FFP 20-20; ISIP 291; FSIP 311; bht 108°.

DST #2 from 5828'-5902'; 30-60-60-60. Inital blow: tool opened on last conn.; picked up 400'-500' mud; reset tool; strong blow to bottom 1"; unloaded mud at 10 mins. w/gas. Final blow: strong blow - guaged 4,636 mcf/day on 2" orifice. FSI: was still blown at final of hour out 2". IHSP 2880; IFP 869-949; ISIP 1120; FFP 879-979; FSIP 1120; FSHP 2820. Final open: 10" 4,140 mmcf/day; 20" 4,443 mmcf/day; 30" 4,636 mmcf/day, 40" 4,636 mmcf/day; 50" 4,636 mmcf/day; 60" 4,646 mmcf/day.

SAMPLE TOPS:

Heebner Shale	4488'	(-2214)
Douglas Shale	4541'	(-2267)
Lansing	4645'	(-2381)
Iola Limestone	5000'	(-2726)
Stark Shale	5219'	(-2945)
Swope Limestone	5225'	(-2951)
Hertha Limestone	5286'	(-3012)
Base/Kansas City	5312'	(-3038)
Marmaton	5348'	(-3074)
Altamont	5390'	(-3116)
Morrow	5831'	(-3557)
Morrow Sand	5869'	(-3595)
Miss Chester		
350' Zone	5907'	(-3633)
300' Zone	5955'	(-3681)
240' Zone	6006'	(-3732)
185' Zone	6044'	(-3770)
RTD	6100'	(-3826)

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 WILSON, KANSAS



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CUSTOMER

INVOICE DATE

12/28/90

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 1	INVOICE NO. 636417
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AUTHORIZED BY 636417

PURCH. ORDER REF. NO.

CHARTER PRODUCTION

224 EAST DOUGLAS
SUITE 400
WICHITA, KS 67202

WELL NUMBER : 1

CUSTOMER NUMBER : 14226 - 0

LEASE NAME AND NUMBER allison	STATE 14	COUNTY/PARISH 1407	CITY	DISTRICT NAME Medicine Lodge	DISTR. NO. 584
JOB LOCATION/FIELD 15-34-26		MTA DISTRICT	DATE OF JOB 12/28/90	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100308	1.00	CEMENT CASING 501 TO 1,000 FEET	630.00		630.00
10107891	1.00	Fuel Surcharge	95.72		95.72
10109009	50.00	MILEAGE CHR.G, FROM NEAREST BASE OF	2.35		117.50
10409600	1.00	8 5/8 centralizer	60.00	GAL	60.00
10409600	1.00	8 5/8 basket	198.00	GAL	198.00
10409600	1.00	8 5/8 sawtooth guide sho	222.00	GAL	222.00
10410504	263.00	CLASS "A" CEMENT	5.50	QT	1,446.50
10415018	87.00	DIAMIX F	2.91	QT	253.17
10415049	942.00	A-7-P CALCIUM CHLORIDE PELLETS	0.46	LB	433.32
10420149	1493.00	BJ-TITAN GEL, BENTONITE, BULK SALE	0.13	LB	194.09
10422008	63.00	CELLO FLAKE	1.21	LB	76.23
10430638	1.00	8 5/8" TOP PLUG RESIN/PLASTIC CORE	95.00	EA	95.00

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ACCOUNT	
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TAX EXEMPTION STATUS:	
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CUSTOMER

INVOICE DATE

12/28/90

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PAGE 2	INVOICE NO. 636417
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CHARTER PRODUCTION

224 EAST DOUGLAS
SUITE 400
WICHITA, KS 67202

WELL NUMBER : 1

CUSTOMER NUMBER : 14226 - 0

LEASE NAME AND NUMBER allison	STATE 14	COUNTY/PARISH 1407	CITY	DISTRICT NAME Medicine Lodge	DISTR. NO. 584
JOB LOCATION/FIELD 15-34-26		MTA DISTRICT	DATE OF JOB 12/28/90	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10880001	391.00	MIXING SERVICE CHRG DRY MATERIALS,	1.10		430.10
10940101	840.00	DRAYAGE, PER TON MILE	0.75		630.00
SUBTOTAL					4,881.63
DISCOUNT					957.18

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CONSERVATION DIVISION
Wichita, Kansas

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ACCOUNT	1.0000% BARBER	2,382.65	23.83
	4.2500% KS-NEW WELL	2,382.65	101.26

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TAX EXEMPTION STATUS:

PAY THIS AMOUNT

4,049.54



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REMITTANCE ADVICE

INVOICE DATE

01/08/91

DIRECT BILLING INQUIRIES TO:	TERMS	REMIT TO:
713-895-5821	NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212

PAGE	INVOICE NO.
1	636399

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636399

PURCH. ORDER REF. NO.

CHARTER PRODUCTION

224 EAST DOUGLAS
SUITE 400
WICHITA, KS 67202

WELL NUMBER : 1

CUSTOMER NUMBER : 14226 - 0

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
Ellison	14	1407		Medicine Lodge	584
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
McKinny			01/08/91	LAND-LONG STRING/PRODUCT	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100334	1.00	cement casing 6,000 to 6,500 feet	1475.00		1,475.00
10107891	1.00	Fuel Surcharge	86.21		86.21
10109005	50.00	MILEAGE CHRG, FROM NEAREST BASE OF	2.35		117.50
10409600	6.00	4 1/2" centralizers	43.50	GAL	261.00
10409600	1.00	4 1/2" afe insert - m	168.00	GAL	168.00
10409600	1.00	4 1/2" guide shoe - m	109.00	GAL	109.00
10410504	75.00	CLASS "A" CEMENT	5.50	QT	412.50
10415016	50.00	DIAMIX F	2.91	QT	145.50
10415038	1125.00	A-5 SALT	0.11	LB	123.75
10420145	215.00	BJ-TITAN GEL, BENTONITE, BULK SALE	0.13	LB	27.95
10424005	80.00	CO-31	3.87	LB	309.60
10425010	400.00	MUD-SWEEP, WITH BJ-TITAN PUMPING E	1.45	GAL	580.00

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FROM CONFIDENTIAL

ACCOUNT

TAX EXEMPTION STATUS:



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REMITTANCE ADVICE

INVOICE DATE
01/08/91

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: B.J. SERVICES P.O. BOX 100806 HOUSTON, TX 77212
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PAGE 2	INVOICE NO. 636399
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636399

PURCH. ORDER REF. NO.

CHARTER PRODUCTION

224 EAST DOUGLAS
SUITE 400
WICHITA, KS 67202

WELL NUMBER : 1

CUSTOMER NUMBER : 14226 - 0

LEASE NAME AND NUMBER Allison	STATE 14	COUNTY/PARISH 1407	CITY	DISTRICT NAME Medicine Lodge	DISTR. NO. 584
JOB LOCATION/FIELD McKinney		MTA DISTRICT	DATE OF JOB 01/08/91	TYPE OF SERVICE LAND-LONG STRING/PRODUCT	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10428048	150.00	A-9 KCL	0.25	LB	37.50
10430608	1.00	4 1/2" top resin plug	44.00	EA	44.00
10880001	147.00	MIXING SERVICE CHRG DRY MATERIALS,	1.10		161.70
10940101	310.00	DRAVAGE, PER TON MILE	0.75		232.50
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SUBTOTAL					4,291.71
DISCOUNT					756.99

ACCOUNT	1.0000% BARGER	1,819.42	18.19
	4.2500% KS-NEW WELL	1,819.42	77.32

TAX EXEMPTION STATUS:	PAY THIS AMOUNT	3,630.23
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