

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

API NO. 15-.....15-065-22,480.....

County Graham County, KS
Approx. C of N7/2 SW NW Sec. 22 Twp. 6 Rge. 23 East X West

Operator: License # 4748
Name A & A Discovery, Inc.
Address P.O. Box 156
City/State/Zip Hill City, KS 67642

3620.... Ft North from Southeast Corner of Section
4490.... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser Clear Creek
Wichita, KS

Lease Name Graham Co. Leasing Well # A-1

Operator Contact Person Darrel Anderson
Phone (913) 674-2768

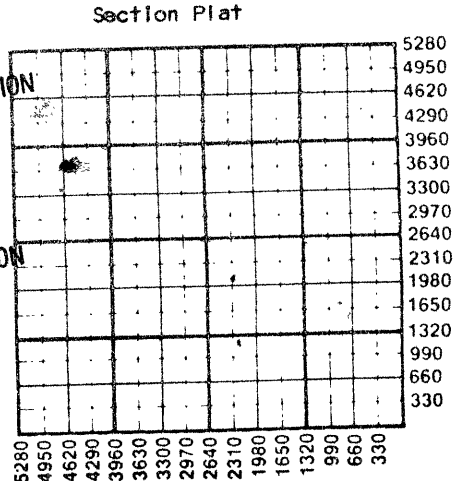
Elevation: Ground 2343 MSL 2353' KB

Contractor: License # 3300
Name Lloyd Drilling

Wellsite Geologist Pat Deenihan
Phone (316) 683-8838

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

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CONSERVATION DIVISION
Wichita, Kansas
2-27-89



If OWWO: old well info as follows:
Operator
Well Name
Comp. Date
Old Total Depth

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
8-10-88 8-21-88 9-29-88
Spud Date Date Reached TD Completion Date
3828'
Log Total Depth PBTD

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge East West

Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West

Other (explain) Farmer's well - piped
(purchased from city, R.W.D. #)

Amount of Surface Pipe Set and Cemented at 240 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set.....feet
If alternate 2 completion, cement circulated
from.....feet depth to.....w/.....SX cmt
Cement Company Name B.J. Titan
Invoice # VS088
4-4-89

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 Darrel Anderson

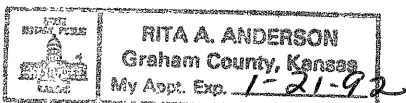
Title Darrel Anderson, President Date 2-24-89

Subscribed and sworn to before me this 24th day of February 1989

Notary Public Rita A. Anderson

Date Commission Expires 1-21-92

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)
2-27-89 4x



Sec. 22 Twp. 6. Rge. 23 W

Operator Name **A & A DISCOVERY, INC.** Lease Name **Graham Co. Leasing** Well # **A-1**

Sec. **22** Twp. **6** Rge. **23** East West County **Graham County, KS**

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST#1- 3572-3603, 30-60-45-60. IHP 1911, FIFP 86, FFFP 144, ISIP 923, SIFP 163, SFFP 221, FSIP 740, FHM 1843. Temp 112. Recovery-720' GIP 360' F.O. 34G 60' O.C.M. 5% gas, 40% 55% mud oil,

DST#2- 3597-3618', 60-60-60-90 .ISIP 528, FSIP 519, IFP 94-144 ,FFP 184-1230. Recovery- 110' oil specked muddy water

DST#3- 3738-3760' Int. 45-45-30-45. ISIP 423, FSIP 269, IFP 57, FFP 67. Recovery- 20' oil specked mud

Name	Top	Bottom
Anhydrite	2013	
Base "	2044	
Topeka	3331	
Heebner	3543	
Toronto	3569	
Lansing	3586	
Base-KC	3776	
Arbuckle	N.R.	

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
Surface Pipe	12 1/4"	8-5/8" new	20#	249'	60/40 A	160	2cc, 3gel
Prod. Casing		4 1/2" used	10 1/2#	3824'	Thrifty 50	surefil 15	
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	3752-54, 3586-90'			250 gal. 15% mud acid		3752-54	
				750 gal. 28%		3686-90	
				2000' gal. N.E. w/ AOC. 200		" " "	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production		Size	Set At	Packer at			
10-1-88		2-3/8"	3610'	n/a			
Producing Method		Estimated Production Per 24 Hours					
<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
		3BBL.	none	30	n/a	34%	
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed
 n/a Commingled
 n/a

BJ-TITAN SERVICES COMPANY

CUSTOMER

INVOICE DATE
03/21/88

DIRECT BILLING INQUIRIES TO:	TERMS	REMIT TO:
713-696-5821	NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	BJ-TITAN SERVICES P.O. BOX 200416 HOUSTON, TX 77216

PAGE	INVOICE NO.
1	VZ060

AUTHORIZED BY
344172

PURCH ORDER REF NO.

A & A DISCOVERY

BOX 156

HILL CITY

KS 67642

WELL NUMBER : A-1

CUSTOMER NUMBER : 11714009

LEASE NAME AND NUMBER	STATE	COUNTY/PARISH	CITY	DISTRICT NAME	DISTR. NO.
GH CO LEASING, INC.	15			WYLES	3370
JOB LOCATION/FIELD		MTA DISTRICT	DATE OF JOB	TYPE OF SERVICE	
			03/21/88	LAND-LONG STRING/PRODUC	

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	EXTENDED PRICE
10100320	1.00	CEMENTING CASING 3001 TO 5000 FT.	879.00		879.00
10100325	3.27	PLUS PER 100 FT. BELOW 3000 FT.	29.80		80.56
10109065	90.00	MILEAGE CHRG. FROM NEAREST BASE OF	1.10		99.00
10410504	443.00	CLASS "A" CEMENT	5.30	CF	2,347.50
10415018	122.00	DIAMIX F	2.61	CF	318.42
10420145	38.53	BJ-TITAN GEL, BENTONITE, BULK SALES	6.75	CM	260.08
10428020	12.13	A-10 GYPSEAL	14.60	CM	177.10
10415049	1.90	A-7-P CALCIUM CHLORIDE PELLETS	25.75	LB	48.93
10421005	609.00	A-2	1.00	LB	609.00
10430808	1.00	4-1/2" TOP RUBBER PLUG	40.00	EA	40.00
10280055	565.00	MIXING CUSTOMERS MATERIALS, PER CUB	0.95		536.75
10940101	1269.00	DRAYAGE, PER TON MILE	0.70		888.30
10409600	3.00	CENTRALIZER	41.75	GL	125.25
10409600	3.00	BASKET	120.00	GL	360.00
10409600	1.00	INSERT	161.00	GL	161.00
10409600	1.00	GUIDE SHO	104.00	GL	104.00

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STATE CORPORATION COMMISSION

MAR 28 1988

CONSERVATION DIVISION
Wichita, Kansas

ACCOUNT

TAX EXEMPTION STATUS:

BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

CEMENTING LOG

STAGE NO.

Date 8-21-88 District HAYS Ticket No. 344122
 Company AGA Drilling Rig 4102 DPA
 Lease GH to Leasing Inc Well No. A-1
 County Graham State Kan
 Location 9N 20W 1N Hays City Field _____

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 4 1/2 Type V Weight 1.0 Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 3824 ft. P.B. to _____ ft

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.159 Lin. ft./Bbl. 6.0
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PP

LEAD: Pump Time 1 hrs. Type _____
 Excess _____

Amt. 3.50 Sks Yield 2.5 ft³/sk Density 11 PP

TAIL: Pump Time 7 hrs. Type _____
 Excess _____

Amt. 2.15 Sks Yield 1.50 ft³/sk Density 1.5 PP

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbl

Pump Trucks Used 2-2-88 Aug
 Bulk Equip. 30 gal
2-3-88 Mar

Float Equip: Manufacturer BAR-R
 Shoe: Type _____ Depth _____

Float: Type _____ Depth _____

Centralizers: Quantity 3 Plugs Top _____ Btm _____

Stage Collars 3 Baskets

Special Equip. _____

Disp. Fluid Type water Amt. 62 Bbls. Weight 8.34 PP

Mud Type _____ Weight _____ PP

COMPANY REPRESENTATIVE ORRIN Anderson

CEMENTER Bill R. Kegan

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
						Pipe at 3822'
						Shoe at 32'
						Shoe at 3790'
						Cement w/ 350 sks slurry
						follow w/ 215 sks slurry
						plug plug w/ 62 bbls
						water - flow did hole
						<u>cement did cure</u>

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