

WELL COMPLETION REPORT AND  
DRILLER'S LOG

WICHITA BRANCH

API No. 15 — 091 — 20,378  
County Number

Operator  
Beard Drilling Company

Address  
2000 Classen Ctr., Ste. 200 South, OKC, OK 73106

Well No. Astral #1 Lease Name Astral Energy Corp.

Footage Location  
165 feet from XX (S) line 495 feet from XX (W) line

Principal Contractor A. G. Glaze Drilling Co. Geologist Don Montgomery

Spud Date 8-17-81 Date Completed 10-17-81 Total Depth 662' P.B.T.D. 632'

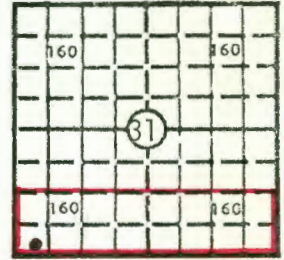
Directional Deviation Vertical Oil and/or Gas Purchaser Koch Oil Company

S. 31 T. 12S R. 24 E

Loc. SW/4 SW/4 SW/4

County Johnson

640 Acres  
N



Locate well correctly

Elev.: Gr. N/A

DF N/A KB N/A

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	9 1/4"	7 1/2"	26#	0-22'	Portland "A"	2 sacks	
Production	6 1/4"	2" LP	3.75#	0-532'	Portland "A"	100 sx	Prem Gel - 5 sx
	6 1/4"	2-3/8" tbg	4.7#	532-632'	Portland "A"	20 sx	
(Production 2" string is cemented from bottom to surface)							

LINER RECORD NONE

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2 SPF	1-9/16" DML	583-589'
			"	"	599-608'

TUBING RECORD

Size	Setting depth	Packer set at
1" Line	597' + anchor	None

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Frac with 80B of 3% gelled KCl water & 2500# 12/30 sd & 1000# 10/20 sd. Added 2 sx salt crystals after first breakdown.	583-589' & 599-608'

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)			
9-9-81	Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	4 bbls.	Trace MCF	16 bbls.	-- CFPB
Disposition of gas (vented, used on lease or sold)	Producing interval(s)			
Vented	583-589' & 599-608'			

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator Beard Drilling Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. Astral #1	Lease Name Astral Energy Corp.	OIL
S 31 T 12S R 24 E <del>XXXX</del>		

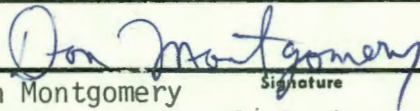
**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
SEE ATTACHED DRILLERS WELL LOG.  Cored - 3" Diameter	585'	602'	Winterset Bethany Falls Hertha U/Squirrel L/Squirrel	175-176' 204-225' 235-243' 524-576' 577-602'

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	 _____ Don Montgomery
	_____ Geologist
	_____ Title
	_____ 12-10-81 _____ Date

15/685

# WELL LOG

31-12-24E

WELL OWNER Beard Oil Company

API # 15-091-20,378

LEASE NAME Beard (Astral #1)

DATE 8/20/81

WELL # #1 ASTRAL page # 1

DRILLER A.G. Glace Drilling Co. Inc

Thickness of Strata	Formation	Total Depth	Comment	# of Joints In	Time	# of Joints Out
23	Surface	23				
9	lime	32				
3	shale	35				
2	lime	37				
47	shale	84				
4	lime	88				
3	shale	90				
2	lime	92				
14	shale	106				
1	lime	107				
3	shale	110				
12	lime	122				
5	shale	127				
4	Red Bed	131				
4	shale	135				
20	lime	155				
1	shale	156				
2	lime	158				
4	shale	162				
2	lime	164				
1	shale	165				
1	lime	166				
4	shale	170				
5	lime	175				
1	shale	176	winterset			
20	lime	196				
3	shale	199				
2	Blk slate	201				
3	shale	204				
21	lime	225	Bethany Falls			
2	shale	227				
2	Blk slate	229				
2	lime	231				

# WELL LOG

31-12-24E

WELL OWNER Beard Oil Prod. Co.

API # \_\_\_\_\_

LEASE NAME Astral #1

DATE \_\_\_\_\_

WELL # #1 Page #2

DRILLER Globe Drilling  
1-913-764-2625

Thickness of Strata	Formation	Total Depth	Comment	# of Joints In	Time	# of Joints Out
4	Shale	235				
8	lime	243	HERTHA			
3	Shale	246				
	Red Bed.	250				
5	Shale	255				
3	Sandstone	258	Bubbles (Gas)			
16	Shale	274				
2	Blk slate	276				
14	Shale	290				
32	Shale (sandy)	322				
13	Sandstone	335				
17	Shale (sandy)	352				
4	Shale	356				
6	Sandstone	362				
15	Shale (sandy)	377				
3	Red Bed	380				
2	Shale	382				
17	Shale (sandy)	399				
5	Shale (Green)	404				
1	Shale	405				
8	Sandstone	413				
6	Shale	419				
3	lime	422				
5	Shale	427				
3	lime	430				
7	Shale	437				
7	lime	444				
10	Sandstone	454				
10	Shale	464				
3	lime (Brown)	467				
3	Blk slate	471				
6	Shale	477				
4	lime	481				

# WELL LOG

OWNER: Bearers Oil Co.

API # 15,091-20378

WELL NAME: Ostrol

DATE 8/20/81

# #1 Page #3

DRILLER A.G. Glaze Drilling Co. Inc.  
15710 S. Woodland Rd - Olathe KS  
1-913-764-2625

Well Rate	Formation	Total Depth	Comment	# of Joints In	Time	660' / Joints Out
	Shale (sandy)	498				
	Red Bed	502				
	Shale	506				
	Blk slate	509				
	Shale	525				
	Sandstone	545	↑ SQUIRREL			
	Shale (sandy)	567				
	Shale	577				
	Sandstone	585	↓ SQUIRREL			
	- CORE -	602	585-602 - Core -			
	Sandstone	610	↓ SQUIRREL		oil show	
	Shale	630				
	lime	632				
	Shale	639				
	lime	641				
	Blk slate	444				
	Shale	662				
	TOTAL DEPTH	662' deep -				