

State Geological Survey

WELL COMPLETION REPORT AND DRILLER'S LOG

API No. 15 — 091 — 20,422
County Number

Operator
Beard Drilling Company

Address
2000 Classen Center, Suite 200 South, OKC, OK 73106

Well No. #4 Astral Lease Name Astral Energy Corp.

Footage Location
165 feet from ~~XX~~ (S) line 1155 feet from ~~XX~~ (W) line

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

Spud Date 9-17-81 Date Completed 10-10-81 Total Depth 682' P.B.T.D. 675'

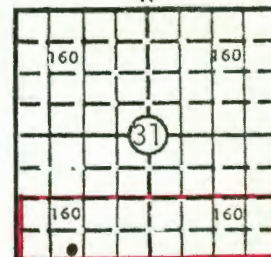
Directional Deviation Vertical Oil and/or Gas Purchaser Koch Oil Company

S. 31 T. 12S R. 24 E
XX

Loc. SE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$

County Johnson

640 Acres
N



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 $\frac{1}{4}$ "	7 $\frac{1}{2}$ "	26#	0-75'	Portland "A"	2	(Cemented 55'-75')
Production	6 $\frac{1}{4}$ "	2" LP	3.75#	0-575'	Portland "A"	120	5 sx 2% Prem-GeI
" "	6 $\frac{1}{4}$ "	2-3/8"	4.7#	575-675'	Portland "A"	20	
(Production 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
			3 SPF	1-9/16" DML	616-622'
TUBING RECORD				Retrievable gun	
Size 1" Line Pipe	Setting depth pump & 650' + anchor	Packer set at --			

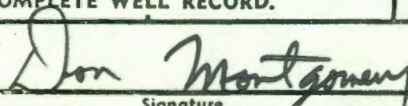
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Frac'd with 70 B of 3% gelled KCl water & 20 sacks of 12/30 sand and 15 sacks of 10/20 sand.	616-622'

INITIAL PRODUCTION

Date of first production 10-11-81	Producing method (flowing, pumping, gas lift, etc.) Pumping - standard insert pump
RATE OF PRODUCTION PER 24 HOURS	Oil 5 bbls. Gas 10 MCF Water 8 bbls. Gas-oil ratio 2.000:1 CFPB
Disposition of gas (vented, used on lease or sold) Vented & used on lease	Producing interval(s) 616-622'

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 trans-
mitted 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.: OIL		
Well No. #4 Astral	Lease Name Astral Energy Corp.			
S <u>31</u> T <u>12S</u> R <u>24</u> E XX				
WELL LOG Show all important zones of porosity and contents thereof; cased 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			Hertha Lime L/Squirrel Sd	271-280' 615-628'
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.				
Date Received	 Don Montgomery Geologist Signature Title Date 			
	12-15-81			

WELL OWNER Beard Oil Company

API # _____

LEASE NAME ASTRALDATE Oct 8, 1981WELL # ~~ASTRAL~~ ASTRAL #4 page #1DRILLER Mike Glaze

Thickness of Strata	Formation	Total Depth	Comment	# of Joints In	Time	# of Joints Out
67	Shale	67				
34	Shale	101				
9	lime	110				
17	Shale	127				
9	lime	136				
7	Shale	143				
	Red Bed	149				
6	Shale	155				
6	lime	161				
4	Sandstone	165				
1	Shale	166				
19	lime	185				
4	Shale	189				
1	lime	190				
20	Shale	210				
15	lime	225				
2	Shale	227				
	lime	234				
1	Shale	235				
1	lime	236				
9	Shale	245				
17	lime	262				
4	Blk slate	266				
2	lime	268				
3	Shale	271				
9	lime	280	HERTHA			
7	Shale	287				
3	lime	290				
100	Shale	390				
15	Shale (Sandy)	405				
4	Sandstone	409				
5	Shale (Sandy)	414				

